

Economic Indicators for the NSW Lobster Fishery in 2023/24

A report for Department of Primary
Industries and Regional Development

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Table of contents

Tables	iii
Figures	iii
Abbreviations	iv
Acknowledgements	iv
Glossary	v
Document history and status	vii
Summary	viii
1. Introduction	1
2. Survey of fishing businesses	5
2.1. Survey of fishing businesses, 2023/24	5
3. Catch, value, prices, and final sales destination	6
4. Financial performance	8
4.1. Financial performance	8
4.2. Assets, liabilities, and equity	15
5. Economic contribution	16
5.1. Economic contribution to New South Wales	17
5.2. Economic contribution to regions of New South Wales	21
6. Net economic return	22
7. Demographics	24
8. Social indicators	25
8.1. Management	25
8.2. Fishing and lifestyle satisfaction	28
8.3. Global life satisfaction and personal wellbeing	30
8.4. Community contribution	31
References	33

Tables

Table S-1	Summary of key economic indicators, 2021/22 to 2023/24 ^a	viii
Table 1-1	Indicator region definitions	4
Table 2-1	Survey sample from 2025 in the Lobster fishery	5
Table 3-1	Catch, GVP and final sales destination for the Lobster fishery, 2023/24	6
Table 4-1	Financial performance of the average business in the Lobster fishery, 2021/22 to 2023/24 ^a	9
Table 4-2	Financial performance in the Lobster fishery, average business in each profitability quartile, 2023/24	10
Table 4-3	Financial performance in the Lobster fishery, average business in each days fished quartile, 2023/24	11
Table 4-4	Financial performance in the Lobster fishery, average business in each region, 2023/24	12
Table 4-5	Financial performance in the Lobster fishery, average business in each fishery specialisation group, 2023/24	13
Table 4-6	Assets, liabilities and equity in the Lobster fishery, 2023/24	15
Table 4-7	Share values in the Lobster fishery, 2023/24	15
Table 5-1	Economic contribution to New South Wales of the Lobster fishery, 2023/24	18
Table 5-2	Economic contribution to New South Wales of the Lobster fishery, by region, 2023/24	21
Table 6-1	Net economic return of the Lobster fishery, 2023/24	22
Table 6-2	Sensitivity analysis of opportunity cost of capital on net economic return, 2023/24	23

Figures

Figure 1-1	Revenue share and days fished in the Lobster fishery, 2023/24	1
Figure 1-2	Methodology, 2022/23 to 2025/26	3
Figure 1-3	Input price indicator ^a trends, 2017/18 to 2023/24	3
Figure 3-1	Prices for selected major species in the Lobster fishery, 2019/20 to 2023/24	6
Figure 3-2	GVP, price and catch indices for the Lobster fishery, 2019/20 to 2023/24	7
Figure 4-1	Price and cost indices for the Lobster fishery, 2019/20 to 2023/24	14
Figure 5-1	Lobster fishery post-harvest supply chain, direct output generated by each sector and final destination value (\$m)	17
Figure 5-2	Economic contribution to employment of the Lobster fishery, 2019/20 to 2023/24 ^a	19

Figure 5-3	Economic contribution to GSP of the Lobster fishery, 2019/20 to 2023/24 ^a	20
Figure 6-1	Net economic return for the Lobster fishery, 2019/20 to 2023/24	23
Figure 7-1	Demographic profile of the Lobster fishery in 2023/24	24
Figure 8-1	Perceptions of fishery management in the Lobster fishery, 2023/24 ^a	26
Figure 8-2	Perceptions of management fairness in the Lobster fishery, 2023/24 ^a	27
Figure 8-3	Perceptions of infrastructure access in the Lobster fishery, 2023/24 ^a	27
Figure 8-4	Satisfaction with aspects of the Lobster fishery, 2023/24 ^a	28
Figure 8-5	Satisfaction in the Lobster fishery, 2023/24 ^a	29
Figure 8-6	Global life satisfaction in the Lobster fishery, 2023/24 ^a	30
Figure 8-7	Personal wellbeing in the Lobster fishery, 2023/24 ^a	31
Figure 8-8	Community contribution in the Lobster fishery, 2023/24	32

Abbreviations

ABARES	Australian Bureau of Agriculture and Resource Economics and Science
CPI	Consumer Price Index
DPIRD	the Department of Primary Industries and Regional Development
FRDC	Fisheries Research and Development Corporation
fte	full-time equivalent
GOS	Gross Operating Surplus
GRP	Gross Regional Product
GSP	Gross State Product
GVP	Gross Value of Production
NSW	New South Wales
PWI	Personal Wellbeing Index

Acknowledgements

In the preparation of economic and social indicators for the NSW commercial fisheries, BDO has relied heavily on the voluntary cooperation of fishing operators in providing data for the surveys. We are particularly grateful for the time and cooperation generously provided by fishing businesses in responding to the rather lengthy questionnaire. BDO is also indebted to the members of the Commercial Fishing NSW Advisory Council, NSW Wild Harvest Fishers Inc. and the Sydney Fish Market for providing the necessary information, advice and support. NSW DPIRD officers provided assistance, were supportive of the data collection and offered valuable advice which was much appreciated.

Glossary

Active business: refers to a fisher operating a fishing business which fished at least one day during the relevant period.

Beach price: refers to the unimproved price received by commercial fishers when landing their catch at the beach, wharf or port (also referred to as wharf price and comparable to farm gate price), and is generally expressed in terms of \$/kg or \$/unit. Processing margins are not included in the beach price as processing operations are assumed to occur further along the value chain. The use of beach prices also removes the effect of transfer pricing by the firm if it is vertically integrated into the value chain.

Boat business profit: is defined as gross operating surplus less depreciation less owner-operator and unpaid family labour. Boat business profit represents a more complete picture of the actual financial status of an individual firm, compared with gross operating surplus, which represents the cash in-cash out situation only.

Boat cash income: is defined as gross operating surplus less imputed wages for owner-operator and unpaid family labour.

Boat gross margin: is defined as gross income less total boat variable costs. This is a basic measure of profit which assumes that capital has no alternative use and that as fishing activity (days fished) varies there is no change in capital or fixed costs.

Cost of management: in a commercial fishery management services will generally include biological monitoring and reporting; policy, regulation and legislation development; compliance and enforcement services; licensing services; and research. Approximated by licence fees in this report.

Days fished: refers to the number of days fished by a fishing business throughout the relevant period.

Depreciation: refers to the annual reduction in the value of working capital due to general wear and tear or the reduction in value of an item over time. Note this is a measure of economic depreciation not accounting depreciation¹.

Employment: is a measure of the number of working proprietors, managers, directors and other employees, in terms of the number (total jobs) or full-time equivalent (fte) jobs. One fte is considered to be 37.5 hours per week for 42 weeks per year.

Endorsement: authorises the holder to take certain species of fish in certain areas using specific methods. To be eligible for an endorsement in a share management fishery, a minimum number of shares of a corresponding type must be held.

Equity: commercial fishing businesses in New South Wales utilise valuable fishery shares, vessels or vehicles and other working capital. They may hold cash and may also hold debt to finance the business and other liabilities. The total assets held by a business less its total liabilities is the business' equity, which can be expressed in dollar terms or as a percentage of total asset value.

Fishing business: for the purpose of this report is an economic entity rather than a legal entity and is defined by Fishing Business ID or Authorised Fisher ID.

Gross income: refers to the cash receipts received by an individual firm and is expressed in Australian dollar terms. *Gross Income* is calculated as catch (kg) multiplied by 'beach price' (\$/kg). Total boat income is the contribution of an individual fishing business to the GVP of a fishing sector or fishery.

¹ Accounting depreciation allocates the cost of an asset over its useful life.

Gross operating surplus (GOS): is defined as gross income less total boat cash costs and is expressed in current Australian dollar terms. GOS may be used interchangeably with the term gross boat profit. A GOS value of zero represents a breakeven position for the business, where total boat cash costs (TBCC) equals total boat cash receipts (TBCR). If GOS is a negative value the firm is operating at a cash loss and if positive the firm is making a cash profit. GOS does not include a value for owner/operator wages, unpaid family work, or depreciation.

Gross regional product (GRP) and gross state product (GSP): is a measure of the net contribution of an activity to the regional/state economy. Contribution to GRP or GSP is measured as value of output less the cost of goods and services (including imports) used in producing the output.

Gross value of production (GVP): refers to the value of the total annual catch for individual fisheries, fishing sectors or the fishing industry as a whole, and is measured in dollar terms. GVP, generally reported on an annual basis, is the quantity of catch for the year multiplied by the average monthly landed beach prices.

Sample size: is the total sample, including both 2023/24 survey and 2019/20 supplementary responses.

Total boat cash costs (TBCC): defined as Total Boat Variable Costs plus Total Boat Fixed Costs.

Total boat fixed costs: are costs that remain fixed regardless of the level of catch or the amount of time spent fishing. As such these costs, measured in current dollar terms, are likely to remain relatively constant from one year to the next. Examples of fixed cost include:

- insurance
- administrative and industry fees
- office & business administration (communication, stationery, accountancy fees)
- interest on loan repayments and overdraft
- leasing.

Total variable costs: are costs which are dependent upon the level of catch or, more commonly, the amount of time spent fishing. As catch or fishing time increases, variable costs also increase. Variable costs are measured in current dollar terms and include the following individual cost items:

- fuel, oil and grease for the boat
- bait
- ice
- provisions
- crew payments
- unscheduled repairs & maintenance.

Working capital: includes capital items that are required by the fishing business to earn the gross income². It includes boat hull, engine, electronics and other permanent fixtures and tender boats. Other capital items such as motor vehicles, sheds, cold-rooms, and jetty/moorings are included to the extent that they are used in the fishing business.

² Working capital should not be confused with financial capital which is money provided by lenders for a price (interest).

Document history and status

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Summary

This report presents economic indicators for the Lobster fishery for 2023/24. This forms the fifth consecutive financial year of annual indicators.

BDO was contracted by the Department of Primary Industries and Regional Development (DPIRD) to develop an independent economic and social indicator monitoring program to inform stakeholders with published financial, economic and social information about commercial fisheries in New South Wales (NSW). The objective is to inform discussions and decisions about fisheries management and to develop an understanding of the values supported by the industry. This report is complemented by a more comprehensive report 'Economic Indicators for NSW Commercial Fisheries for 2023/24' (BDO 2025) that describes the monitoring program in detail and presents results for all NSW commercial fisheries.

A summary of key indicators is provided in Table S-1. In 2023/24, the Lobster fishery produced \$10.1 million in gross value of production (at beach price) from a catch of 170 tonnes. The fishery generated \$500,000 in net economic return. Including flow-on contributions to the broader economy, the fishery supported \$29.5 million of gross state product and 253 fte jobs in NSW.

A decrease in catch, despite an increase in price, led to a decrease in GVP between 2021/22 and 2023/24. Overall, this led to a decrease in the rate of return and net economic return generated by the fishery over the same period.

Table S-1 Summary of key economic indicators, 2021/22 to 2023/24^a

Indicator	2021/22	2022/23	2023/24
Catch (t)	180t	200t	170t
Days fished	2,596	2,675	3,066
Gross value of production (beach price)	\$10.2m	\$10.9m	\$10.1m
Active businesses	58 businesses	65 businesses	69 businesses
Rate of return on total working capital	1.6%	2.4%	1.5%
Fisheries fees/Gross value of production	4.4%	4.1%	4.9%
Active share value per active business ^b	\$1,812,693	\$1,443,216	\$1,566,396
Gross state product (direct + flow-on) ^c	\$21.3m	\$32.1m	\$29.5m
Employment (direct + flow-on) ^c	155 fte jobs	252 fte jobs	253 fte jobs
Net economic return	\$0.6m	\$1.3m	\$0.5m
Net economic return/Gross value of production	6.1%	11.6%	5.2%

^a All values reported are in real 2023/24 dollars.

^b Active Share Value refers to the value of shares held by active fishers.

^c The results increase from 2022/23 is due to improved supply-chain modelling.

Source: BDO analysis

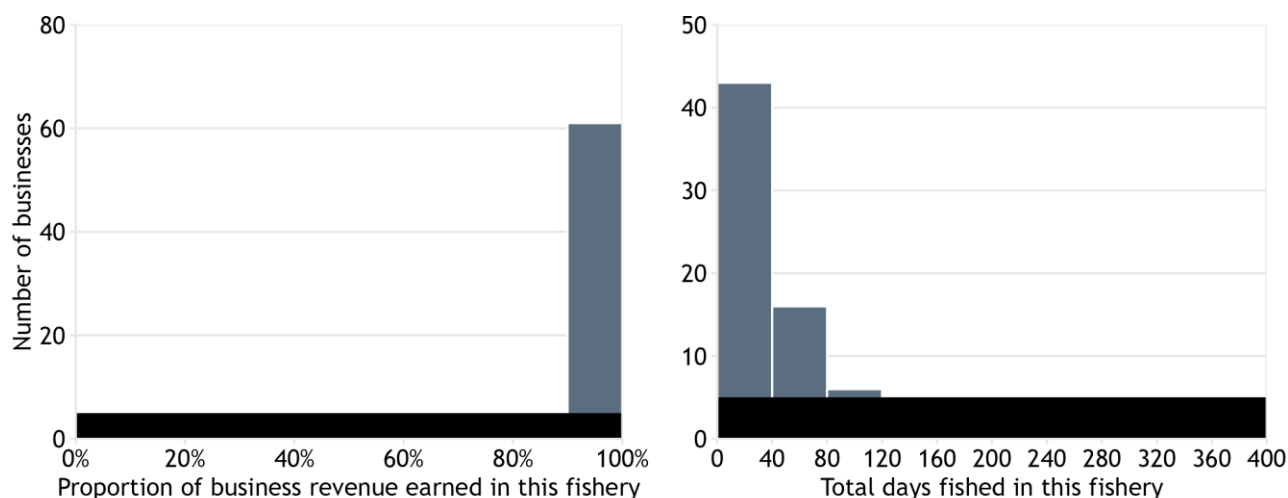
1. Introduction

This report presents economic indicators for the Lobster fishery for 2023/24. BDO was contracted by the Department of Primary Industries and Regional Development (DPIRD) to develop an independent economic and social indicator monitoring program to inform stakeholders with published financial, economic and social information about commercial fisheries in New South Wales (NSW). The objective is to inform discussions and decisions about fisheries management and to develop an understanding of the values supported by the industry. This report is complemented by a more comprehensive report ‘Economic Indicators for NSW Commercial Fisheries for 2023/24’ (BDO 2025) that describes the monitoring program in detail and presents results for all NSW commercial fisheries.

Records of rock lobster commercial catch date back to the 1870s but took off after the return of soldiers from World War Two. The Lobster fishery is a small share managed fishery with a total allowable commercial catch to limit the catch levels within New South Wales. The fishery has two types of fishers, those who fish inshore in shallow waters with smaller traps, and those who fish offshore in deep waters with large rectangular traps.

The variation in businesses in the Lobster fishery in terms of proportion of revenue earned within the Lobster fishery and total days fished is presented in Figure 1-1. Each visible bar represents at least 5 businesses for confidentiality reasons. The black band along the horizontal axis covers the area between 0 and 4 businesses to ensure confidentiality. The limits of the horizontal axis are set to show non-confidential data only, which means there may be businesses with greater days fished than the maximum axis values.

Figure 1-1 Revenue share and days fished in the Lobster fishery, 2023/24



Source: 2025 business survey and BDO analysis

Changes in this report

Compared to previous reports in this series, this report:

- Includes supplementary responses from the previous survey along with 2025 survey responses to bolster sample size and confidence
- Includes average valuation of shares table for access shares and quota shares within the fishery
- Includes a breakdown of supply chain including final sales and economic activity supported by supply chain activities.
- Includes revised supply chain in the economic contribution estimates from 2022/23.

Data

The indicators are based on a confidential survey of fishing businesses undertaken in 2021, 2022 and 2025, and administrative data provided by Department of Primary Industries and Regional Development (DPIRD). Survey data are confidential and BDO will not provide individual data to DPIRD in any form that is not also appropriate to be published publicly, such as by aggregating responses into groups of at least 5 for any statistic (see BDO 2025 for details). All results in this report are calculated from a representative model of the fishery developed from survey data. At a high level, the data collected includes:

- Survey data:
 - Itemised costs of fishing, business administration and associated processing
 - Species prices and market destinations
 - Share values
 - Quota values
 - Working capital values (e.g. vessel, vehicles, buildings and equipment)
 - Perceptions of management, lifestyle and wellbeing.
- Department of Primary Industries and Regional Development data:
 - Fisher level fishing activity such as catch by species and effort, including spatial and temporal dimensions
 - Share ownership and trading
 - Licence fees
 - Catch disposal details
 - Species prices provided by Sydney Fish Market (as a contingency for gaps in survey-based prices only).

Method

Indicators were produced through a number of techniques including:

- Business level statistical matching and imputation
- Supply chain modelling
- Regional economic contribution analysis (using an input-output model approach)
- Established financial reporting techniques
- Data visualisation.

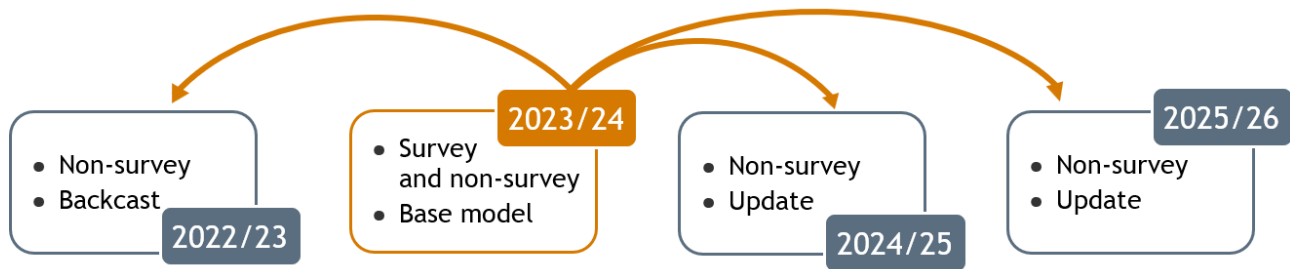
The supply chain analysis, developed under *FRDC Project 2022-038* (BDO 2023), used stakeholder input from six online workshops to map the post-harvest seafood and bait supply chains in NSW. These maps helped to illustrate the flow of products through various stages of the supply chain, from production to end use, and were then used to estimate the economic activity supported by these supply-chain activities.

The 2023/24 economic indicators for the New South Wales commercial fisheries were calculated using a range of primary and secondary data about 2023/24.

The 2022/23 economic indicators for the New South Wales commercial fisheries were calculated by backcasting the 2023/24 indicators using a range of primary and secondary data about 2022/23 and 2023/24.

Figure 1-2 summarises the fisheries reporting year and data approach for each financial year.

Figure 1-2 Methodology, 2022/23 to 2025/26

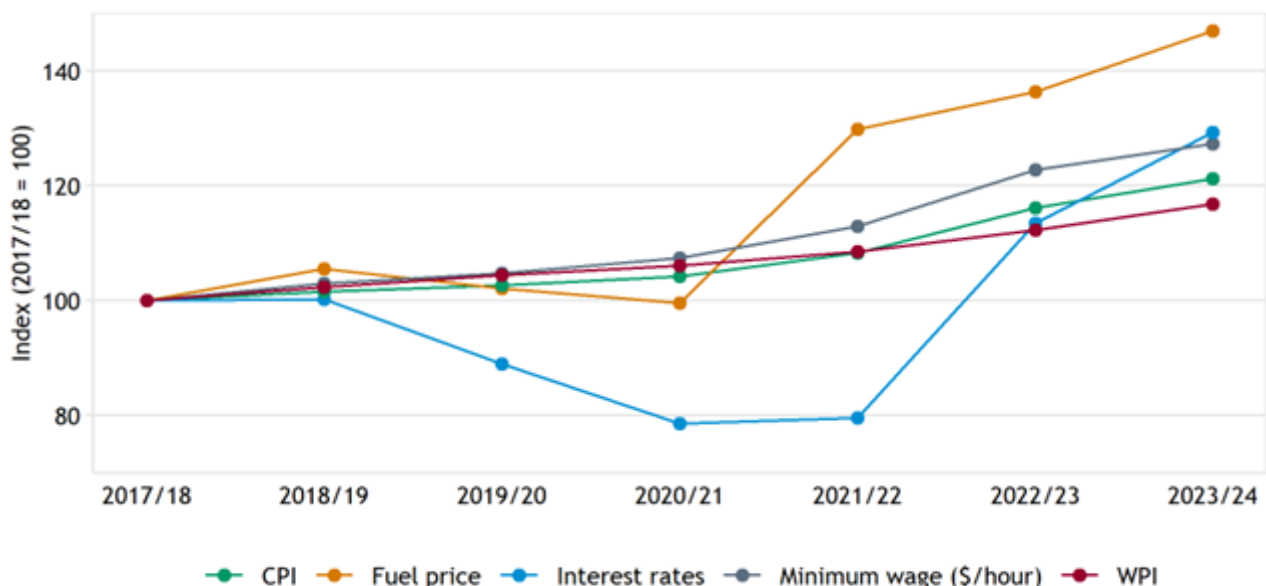


Fisheries monitoring and management data were obtained from NSW Department of Primary Industries and Regional Development for the 2022/23 financial year to adjust the 2023/24 indicators to reflect fishers' fishing and share trading activities in 2022/23. The imputation process involved calculating revenue using backcast species prices for 2022/23, then adjusting operating costs and employment for each business based on the difference in fishing effort and revenue between 2022/23 and 2023/24. Businesses that were active in 2022/23 but not 2023/24 were not represented in the base year data so were imputed in the same way as a non-surveyed business was for the 2023/24 indicators (see BDO 2025). Further, input prices were adjusted in line with changes in relevant cost indices. Figure 1-3 outlines the trend in each cost index for the past seven years and shows that the key feature of 2022/23 was that all indicators were lower compared to 2023/24. Finally, data on the 2022/23 financial year provided by DPIRD were used to quantify fishing licence fees and management costs.

Fish prices were backcast to 2022/23 prices from 2023/24 prices using relative changes in species prices observed in time series of price data provided by Sydney Fish Market and the Australian Bureau of Statistics trade data for exported species.

A description of the methods used to produce these indicators is presented in 'Economic Indicators for NSW Commercial Fisheries for 2023/24' (BDO 2025).

Figure 1-3 Input price indicator^a trends, 2017/18 to 2023/24



^a CPI = Consumer Price Index, Index Numbers, all groups CPI, Sydney; Minimum Wage (\$/hour) = Fair Work Ombudsman, National Minimal Wage; Fuel Price = Consumer Price Index, Index Numbers, Automotive fuel, Sydney; WPI = Quarterly Index ; Ordinary time hourly rates of pay excluding bonuses; New South Wales; Private and Public; All industries; Interest Rates = Lending rates; Small business; Variable; Overdraft.

Source: BDO analysis

Indicators

This report presents on the following economic indicators:

- Business financial indicators
- Economic contribution indicators
- Fishery economic indicators.

Harvest Strategies

The NSW Harvest Strategies, developed under the NSW Fisheries Harvest Strategy Policy and Guidelines, provide a framework for ecologically sustainable development in fisheries. They set clear ecological, economic, social, and cultural objectives, guiding decision-making through performance indicators and reference points.

The Lobster fishery includes resources managed under the NSW Lobster Harvest Strategy (2022). This strategy focuses primarily on catch and biomass indicators. Economic surveys are included as a secondary indicator to measure economic performance (DPIRD 2022). However, no reference or trigger points are in place so have not been used as reference points in this report.

Regions

Indicators for the Lobster fishery that have a regional dimension use the regions described in the table below.

Table 1-1 Indicator region definitions

Indicator category	Regions
- Economic contribution indicators	Fishing regions: - Region 1: Upper North Coast - Region 2: Clarence - Region 3: North Coast - Region 4: Central - Region 5: Metropolitan - Region 6: Upper South Coast - Region 7: Lower South Coast
- Survey sample summary - Business financial indicators	Lobster regions: - Region 1 - Ocean Zones 1, 2 and 3 - Region 2 - Ocean Zones 4 and 5 - Region 3 - Ocean Zones 6 and 7 - Region 4 - Ocean Zones 8, 9 and 10

2. Survey of fishing businesses

Fishing businesses were invited to participate in surveys which collected various data items that are not held by NSW Department of Primary Industries and Regional Development (DPIRD) but are required to calculate economic indicators.

Data were collected respecting the confidentiality of fishing businesses and were used by BDO to produce the economic indicator reports. The data were not distributed outside of BDO and may not be provided to NSW DPIRD without prior permission from the businesses in question.

2.1. Survey of fishing businesses, 2023/24

The survey of fishing businesses to collect information on the 2023/24 financial year was undertaken between March and May in 2025. Non-survey data were obtained from NSW DPIRD for the 2023/24 financial year.

The survey involved collecting data from fishing businesses for the 2023/24 financial year. Data were collected on species prices and markets, operating costs, processing activity, employment (including unpaid), endorsement values/leasing costs, capital value and depreciation, and social and demographic information. The survey used a questionnaire that was developed in collaboration with NSW Department of Primary Industries and Regional Development and with industry representatives. Businesses were asked to include only the amounts that were attributable to their NSW fishing business. If exact figures were not available (e.g. from a tax return), then they were asked to provide careful estimates.

The survey captured responses from 10 per cent of fishing businesses that were active in 2023/24. A business is considered active if it fished at least one day during 2023/24. Due to lower response rates, survey responses from the 2019 survey were used to supplement the sample, as long as they continued to operate in a similar way between the two survey years.

The total sample, including both survey and supplementary responses, represents 20.3 per cent of active fishing businesses. Regional response rates ranged from 44.4 per cent (Region 1: Ocean Zones 1, 2 and 3) to 11.8 per cent (Region 4: Ocean zones 6 and 7) (Table 2-1).

Table 2-1 Survey sample from 2025 in the Lobster fishery

Fishing region	Active businesses	Survey responses	Total sample size ^a	% (total sample size)
Region 1: Ocean Zones 1, 2 and 3	9	2	4	44.4%
Region 2: Ocean Zones 4 and 5	28	2	7	25.0%
Region 3: Ocean Zones 6 and 7	34	3	4	11.8%
Region 4: Ocean Zones 8, 9 and 10	11	2	3	27.3%
Whole fishery	69	7	14	20.3%

^a Total sample size includes survey and supplementary responses.

Source: BDO analysis

3. Catch, value, prices, and final sales destination

Catch, price, value and final sales destinations are shown in Table 3-1 for the species where the survey provided at least 5 observations (to maintain confidentiality), these prices were used to calculate indicators. The price shown for other species is not a specific price but an average price of all the species included within the other species grouping. The Lobster fishery produced almost 170 tonnes of catch and \$10.1 million in GVP (at beach price).

Trends in prices for key species are presented in Table 3-1. Historic prices have been transformed into real terms to remove the distorting effect of inflation. In 2023/24, the average price in the fishery was \$59.32 per kg, a decrease from \$64.47 per kg in 2020/21. Eastern Rock Lobster, comprising most catch in the fishery, decreased over the same period from \$66.00 per kg to \$61.44 per kg (Figure 3-1). The decrease in GVP between 2019/20 and 2022/23, was predominantly due to a decrease in price. However, the decrease in GVP in 2023/24 was as a result of a decrease in catch despite an increase in price (Figure 3-2).

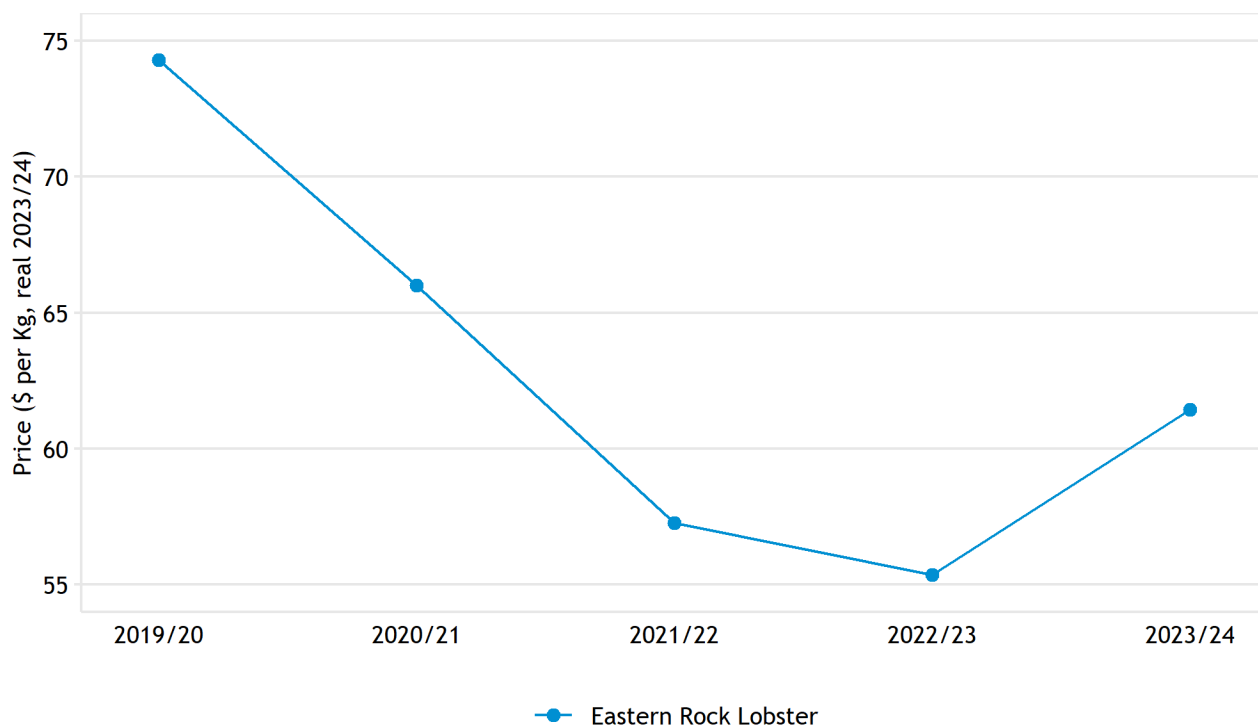
Final sales destinations include NSW (91.1 per cent), interstate (0.1 per cent), and overseas export (8.8 per cent).

Table 3-1 Catch, GVP and final sales destination for the Lobster fishery, 2023/24

Species	Catch	Price	Unit	GVP (\$m)	Final sales destination (%)		
					NSW	Interstate	Overseas
Eastern Rock Lobster	161,968	\$61.44	Kg	\$10.0m	91.1%	0.0%	8.9%
Other species	7,690	\$14.61	Kg	\$0.1m	89.4%	8.6%	2.0%
Fishery total	169,658	\$59.32	Kg	\$10.1m	91.1%	0.1%	8.8%

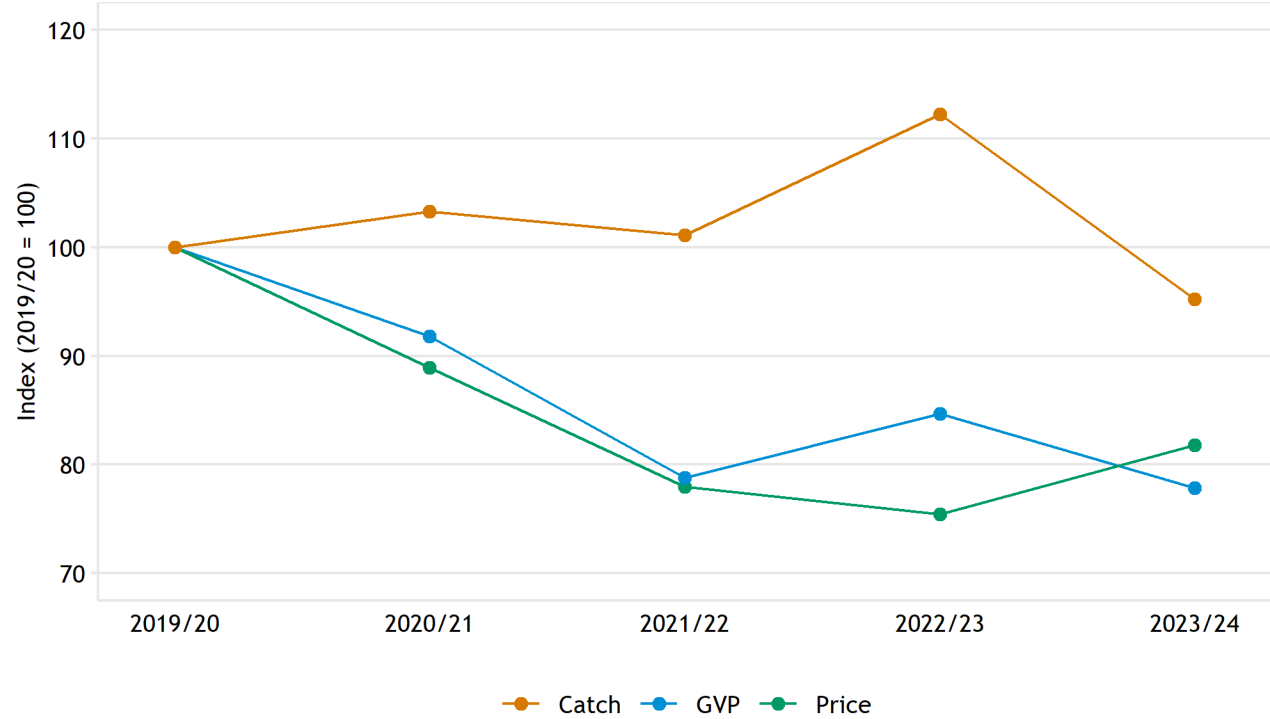
Source: BDO analysis

Figure 3-1 Prices for selected major species in the Lobster fishery, 2019/20 to 2023/24



Source: BDO analysis

Figure 3-2 GVP, price and catch indices for the Lobster fishery, 2019/20 to 2023/24



Source: BDO analysis

4. Financial performance

This section presents a series of tables that describe the average financial performance of businesses in the Lobster fishery in 2023/24. Sample sizes outlined in these tables are from the 2023/24 and 2019/20 surveys, on which the 2021/22 and 2022/23 indicators were based.

The average business refers to the average activity within the Lobster fishery of businesses that access the fishery, which means that a 'business' as represented in the financial indicators table may actually be just the proportion of the business attributable to the Lobster fishery. For example, a business that is active in both the Lobster fishery and another fishery will have their business activity (employment, expenditure, capital values, etc.) proportionally split between the financial indicators tables of the two fisheries.

Following the financial indicators tables, the value of assets, liabilities and equity of fishing businesses that accessed the Lobster fishery in 2023/24 is summarised.

4.1. Financial performance

Financial performance indicators are presented in Table 4-1 to Table 4-5 using the following various groupings:

- **Whole fishery:** provides an understanding of the average performance across the whole fishery.
- **Profitability quartiles:** provides an understanding of the performance of the average business in each profitability quartile (defined by return on investment). This allows comparison of business characteristics at different levels of profitability.
- **Activity level quartiles:** provides an understanding of the performance of the average business in each activity level quartile (by days fished). This allows comparison of the business characteristics of businesses with different levels of activity.
- **Fishing regions:** provides an understanding of the performance of the average business in each fishing region. This allows comparison of the business characteristics and performance of businesses active in each region. Business activity is proportionally split between regions in the same way it is split between fisheries.
- **Fishery specialisation:** provides an understanding of the performance of businesses that are specialised in this fishery compared to those that earn more of their revenue in other fisheries. This allows comparison of the business characteristics of businesses with different levels of fishery specialisation.

Table 4-1 Financial performance of the average business in the Lobster fishery, 2021/22 to 2023/24^a

Indicator	2021/22		2022/23		2023/24	
	Value per active business	%	Value per active business	%	Value per active business	%
Fishing businesses						
Active businesses	58		65		69	
Sample size	20		12		14	
Fishing activity						
Days fished	45		41		44	
Catch (kg)	3,106		3,077		2,459	
Catch (no.)	-		-		-	
Prop. of revenue earned in this fishery	90.5%		94.0%		93.5%	
Employment						
Total jobs	2.0		1.7		1.7	
Fte jobs	0.8		1.0		1.0	
(1) Gross income	\$175,541		\$168,289		\$145,848	
Variable costs						
Bait/ice	\$5,788	4%	\$3,513	3%	\$3,029	3%
Fuel	\$16,598	13%	\$5,805	5%	\$5,895	5%
Labour - paid	\$19,795	15%	\$21,433	17%	\$19,559	17%
(2) Labour - unpaid	\$13,456	10%	\$3,031	2%	\$2,763	2%
Provisions	\$725	1%	\$1,233	1%	\$1,193	1%
Repairs & maintenance	\$27,048	20%	\$19,631	16%	\$18,071	16%
Other	\$586	0%	\$7,781	6%	\$7,507	6%
(3) Total variable costs	\$83,995	63%	\$62,426	50%	\$58,016	50%
Fixed costs						
Insurance	\$8,253	6%	\$10,494	8%	\$10,070	9%
(4) Interest	\$4,408	3%	\$9,961	8%	\$10,563	9%
(5) Labour - unpaid	\$6,152	5%	\$8,488	7%	\$4,471	4%
(6) Leasing of building, equipment & quota transfers	\$2,123	2%	\$713	1%	\$810	1%
Legal & accounting	\$1,881	1%	\$5,519	4%	\$5,309	5%
Fishing licence fees	\$7,993	6%	\$6,774	5%	\$6,998	6%
Office & admin	\$2,739	2%	\$3,108	2%	\$3,037	3%
Other licence fees	\$3,426	3%	\$979	1%	\$906	1%
Slipping & mooring	\$5,747	4%	\$8,739	7%	\$8,362	7%
Telephone etc.	\$4,857	4%	\$6,577	5%	\$6,325	5%
Travel	\$1,167	1%	\$798	1%	\$763	1%
Other	\$0	0%	\$0	0%	\$0	0%
(7) Total fixed costs	\$48,746	37%	\$62,148	50%	\$57,613	50%
(8) Total boat cash costs (3+7)	\$132,741	100%	\$124,574	100%	\$115,629	100%
Profitability						
Boat gross margin (1-3)	\$91,546		\$105,864		\$87,832	
(9) Total unpaid labour (2+5)	\$19,609		\$11,519		\$7,234	
Gross operating surplus (1-8+9)	\$62,407		\$55,234		\$37,452	
(10) Boat cash income (1-8)	\$42,800		\$43,716		\$30,219	
(11) Depreciation	\$15,651		\$14,908		\$14,291	
(12) Boat business profit (10-11)	\$27,149		\$28,807		\$15,928	
(13) Profit at full equity (12+4+6) ^b	\$32,944		\$39,695		\$27,443	
Boat capital						
(14) Fishing gear and equipment	\$224,354		\$196,580		\$189,627	
Licence value	\$1,812,693		\$1,443,216		\$1,566,396	
(15) Total working capital	\$2,037,047		\$1,639,795		\$1,756,022	
Rate of return						
Rate of return on fishing gear and equipment (13 ^b /14*100)	13.1%		18.5%		13.2%	
Rate of return on total working capital (13 ^b /15*100)	1.6%		2.4%		1.5%	

^a All values reported are in real 2023/24 dollars.^b Part of leasing and rent is assumed to cover depreciation of buildings and equipment so is excluded from profit at full equity.

Source: BDO analysis

Table 4-2 Financial performance in the Lobster fishery, average business in each profitability quartile, 2023/24

Indicator	Return on investment quartile			
	Q1	Q2	Q3	Q4
Fishing businesses				
Active businesses	18	17	17	17
Sample size	4	3	3	4
Fishing activity				
Days fished	32	50	44	53
Catch (kg)	1,055	1,599	2,360	4,903
Prop. of revenue earned in this fishery	97.2%	91.4%	96.6%	88.7%
Employment				
Total jobs	2.0	1.5	1.4	1.7
Fte jobs	1.1	1.0	1.0	0.8
(1) Gross income	\$62,986	\$94,621	\$140,276	\$290,382
Variable costs				
Bait/ice	\$5,471	\$1,814	\$1,489	\$3,198
Fuel	\$8,310	\$5,391	\$3,657	\$6,081
Labour - paid	\$13,946	\$17,474	\$21,247	\$25,897
(2) Labour - unpaid	\$3,450	\$2,105	\$1,692	\$3,763
Provisions	\$2,139	\$2,018	\$215	\$343
Repairs & maintenance	\$18,906	\$18,022	\$12,304	\$23,002
Other	\$8,824	\$6,755	\$6,270	\$8,101
(3) Total variable costs	\$61,046	\$53,579	\$46,874	\$70,386
Fixed costs				
Insurance	\$11,553	\$8,052	\$9,071	\$11,516
(4) Interest	\$10,255	\$6,129	\$10,609	\$15,278
(5) Labour - unpaid	\$5,048	\$4,372	\$4,467	\$3,962
(6) Leasing of building, equipment & quota transfers	\$594	\$535	\$986	\$1,139
Legal & accounting	\$6,224	\$6,606	\$5,074	\$3,280
Fishing licence fees	\$3,100	\$7,507	\$8,880	\$8,732
Office & admin	\$3,485	\$2,642	\$2,840	\$3,153
Other licence fees	\$1,363	\$786	\$619	\$828
Slipping & mooring	\$10,428	\$8,863	\$7,441	\$6,592
Telephone etc.	\$7,615	\$5,366	\$5,538	\$6,705
Travel	\$850	\$648	\$613	\$935
Other	\$0	\$0	\$0	\$0
(7) Total fixed costs	\$60,517	\$51,506	\$56,140	\$62,119
(8) Total boat cash costs (3+7)	\$121,563	\$105,085	\$103,014	\$132,505
Profitability				
Boat gross margin (1-3)	\$1,940	\$41,042	\$93,402	\$219,996
(9) Total unpaid labour (2+5)	\$8,498	\$6,477	\$6,159	\$7,726
Gross operating surplus (1-8+9)	-\$50,080	-\$3,987	\$43,421	\$165,602
(10) Boat cash income (1-8)	-\$58,577	-\$10,464	\$37,262	\$157,877
(11) Depreciation	\$14,504	\$13,711	\$12,552	\$16,384
(12) Boat business profit (10-11)	-\$73,081	-\$24,175	\$24,709	\$141,493
(13) Profit at full equity (12+4+6) ^a	-\$61,864	-\$17,282	\$36,275	\$157,896
Boat capital				
(14) Fishing gear and equipment	\$187,695	\$173,143	\$178,502	\$219,281
Licence value	\$731,547	\$1,694,076	\$1,954,528	\$1,934,539
(15) Total working capital	\$919,242	\$1,867,220	\$2,133,030	\$2,153,820
Rate of return				
Rate of return on fishing gear and equipment (13 ^a /14*100)	-29.9%	-9.2%	18.4%	65.3%
Rate of return on total working capital (13 ^a /15*100)	-6.6%	-0.9%	1.7%	7.3%

^a Part of leasing and rent is assumed to cover depreciation of buildings and equipment so is excluded from profit at full equity.

Source: BDO analysis

Table 4-3 Financial performance in the Lobster fishery, average business in each days fished quartile, 2023/24

Indicator	Days fished quartile			
	Q1	Q2	Q3	Q4
Fishing businesses				
Active businesses	19	16	18	16
Sample size	1	0	7	6
Fishing activity				
Days fished	5	21	46	113
Catch (kg)	999	2,849	3,314	2,841
Prop. of revenue earned in this fishery	100.0%	100.0%	90.0%	83.4%
Employment				
Total jobs	1.8	1.6	1.8	1.5
Fte jobs	1.0	1.0	0.9	1.0
(1) Gross income	\$61,099	\$172,952	\$186,872	\$173,230
Variable costs				
Bait/ice	\$279	\$1,226	\$3,369	\$7,715
Fuel	\$649	\$2,917	\$7,236	\$13,594
Labour - paid	\$6,761	\$17,013	\$20,310	\$36,457
(2) Labour - unpaid	\$390	\$1,980	\$2,501	\$6,658
Provisions	\$58	\$247	\$1,972	\$2,609
Repairs & maintenance	\$8,914	\$13,420	\$26,942	\$23,615
Other	\$1,141	\$7,746	\$11,386	\$10,462
(3) Total variable costs	\$18,192	\$44,549	\$73,717	\$101,111
Fixed costs				
Insurance	\$8,894	\$12,294	\$11,016	\$8,178
(4) Interest	\$6,098	\$16,016	\$12,948	\$7,729
(5) Labour - unpaid	\$4,877	\$4,974	\$4,574	\$3,369
(6) Leasing of building, equipment & quota transfers	\$842	\$1,485	\$668	\$258
Legal & accounting	\$7,379	\$4,991	\$4,879	\$3,656
Fishing licence fees	\$4,356	\$8,901	\$8,649	\$6,373
Office & admin	\$3,255	\$3,712	\$2,918	\$2,235
Other licence fees	\$981	\$882	\$732	\$1,035
Slipping & mooring	\$10,283	\$8,132	\$8,426	\$6,237
Telephone etc.	\$6,244	\$7,610	\$6,369	\$5,086
Travel	\$882	\$968	\$650	\$542
Other	\$0	\$0	\$0	\$0
(7) Total fixed costs	\$54,093	\$69,965	\$61,828	\$44,700
(8) Total boat cash costs (3+7)	\$72,285	\$114,514	\$135,545	\$145,810
Profitability				
Boat gross margin (1-3)	\$42,907	\$128,403	\$113,156	\$72,119
(9) Total unpaid labour (2+5)	\$5,267	\$6,954	\$7,075	\$10,027
Gross operating surplus (1-8+9)	-\$5,919	\$65,391	\$58,403	\$37,446
(10) Boat cash income (1-8)	-\$11,186	\$58,438	\$51,328	\$27,420
(11) Depreciation	\$14,520	\$14,600	\$18,226	\$9,283
(12) Boat business profit (10-11)	-\$25,706	\$43,838	\$33,102	\$18,136
(13) Profit at full equity (12+4+6) ^a	-\$18,604	\$61,211	\$46,914	\$26,451
Boat capital				
(14) Fishing gear and equipment	\$161,327	\$178,548	\$237,355	\$180,618
Licence value	\$947,834	\$1,940,143	\$1,909,849	\$1,540,806
(15) Total working capital	\$1,109,160	\$2,118,691	\$2,147,203	\$1,721,424
Rate of return				
Rate of return on fishing gear and equipment (13 ^a /14*100)	-10.3%	29.8%	18.4%	13.8%
Rate of return on total working capital (13 ^a /15*100)	-1.6%	2.9%	2.2%	1.5%

^a Part of leasing and rent is assumed to cover depreciation of buildings and equipment so is excluded from profit at full equity.

Source: BDO analysis

Table 4-4 Financial performance in the Lobster fishery, average business in each region, 2023/24

Indicator	Region			
	Ocean Zones 1 - 3	Ocean Zones 4 - 5	Ocean Zones 6 - 7	Ocean Zones 8 - 10
Fishing businesses				
Active businesses	9	28	34	11
Sample size	4	7	4	3
Fishing activity				
Days fished	50	32	39	34
Catch (kg)	1,441	2,814	1,625	2,059
Prop. of revenue earned in this region	79.3%	78.1%	79.8%	76.3%
Employment				
Total jobs	1.7	1.4	1.4	1.2
Fte jobs	0.9	0.7	0.9	0.8
(1) Gross income	\$87,409	\$172,128	\$96,508	\$106,901
Variable costs				
Bait/ice	\$9,167	\$2,435	\$1,448	\$826
Fuel	\$13,532	\$4,396	\$4,147	\$1,899
Labour - paid	\$23,970	\$16,257	\$15,367	\$14,197
(2) Labour - unpaid	\$4,584	\$2,868	\$1,631	\$1,238
Provisions	\$6,926	\$277	\$311	\$148
Repairs & maintenance	\$17,591	\$16,959	\$14,819	\$10,099
Other	\$492	\$9,223	\$6,825	\$2,112
(3) Total variable costs	\$76,262	\$52,414	\$44,549	\$30,519
Fixed costs				
Insurance	\$6,296	\$9,847	\$8,633	\$6,266
(4) Interest	\$1,665	\$13,272	\$8,401	\$5,147
(5) Labour - unpaid	\$3,433	\$4,239	\$3,711	\$2,975
(6) Leasing of building, equipment & quota transfers	\$459	\$1,096	\$484	\$420
Legal & accounting	\$4,148	\$3,432	\$5,547	\$4,028
Fishing licence fees	\$8,594	\$11,624	\$10,820	\$17,727
Office & admin	\$2,279	\$2,842	\$2,621	\$2,029
Other licence fees	\$1,533	\$617	\$721	\$628
Slipping & mooring	\$6,380	\$6,420	\$8,041	\$6,034
Telephone etc.	\$5,457	\$5,679	\$5,395	\$4,319
Travel	\$920	\$639	\$594	\$570
Other	\$0	\$0	\$0	\$0
(7) Total fixed costs	\$41,165	\$59,708	\$54,968	\$50,143
(8) Total boat cash costs (3+7)	\$117,427	\$112,121	\$99,517	\$80,662
Profitability				
Boat gross margin (1-3)	\$11,147	\$119,715	\$51,960	\$76,382
(9) Total unpaid labour (2+5)	\$8,017	\$7,107	\$5,342	\$4,212
Gross operating surplus (1-8+9)	-\$22,001	\$67,114	\$2,333	\$30,452
(10) Boat cash income (1-8)	-\$30,017	\$60,007	-\$3,009	\$26,239
(11) Depreciation	\$6,793	\$14,192	\$12,594	\$9,033
(12) Boat business profit (10-11)	-\$36,810	\$45,815	-\$15,603	\$17,207
(13) Profit at full equity (12+4+6) ^a	-\$34,519	\$60,112	-\$6,466	\$22,933
Boat capital				
(14) Fishing gear and equipment	\$136,120	\$176,548	\$158,451	\$138,954
Licence value	\$1,063,106	\$1,296,740	\$1,202,132	\$1,939,285
(15) Total working capital	\$1,199,226	\$1,473,288	\$1,360,583	\$2,078,239
Rate of return				
Rate of return on fishing gear and equipment (13 ^a /14*100)	-23.2%	30.5%	-3.7%	15.2%
Rate of return on total working capital (13 ^a /15*100)	-2.8%	4.0%	-0.5%	1.1%

^a Part of leasing and rent is assumed to cover depreciation of buildings and equipment so is excluded from profit at full equity.

Source: BDO analysis

Table 4-5 Financial performance in the Lobster fishery, average business in each fishery specialisation group, 2023/24

Indicator	Share of revenue earned in fishery	
	High Revenue Share	Low Revenue Share
Fishing businesses		
Active businesses	60	9
Sample size	6	8
Fishing activity		
Days fished	35	105
Catch (kg)	2,492	2,235
Prop. of revenue earned in this fishery	100.0%	50.4%
Employment		
Total jobs	1.8	0.9
Fte jobs	1.0	0.9
(1) Gross income	\$146,689	\$140,237
Variable costs		
Bait/ice	\$1,878	\$10,704
Fuel	\$4,278	\$16,677
Labour - paid	\$16,899	\$37,292
(2) Labour - unpaid	\$1,854	\$8,822
Provisions	\$390	\$6,545
Repairs & maintenance	\$19,551	\$8,203
Other	\$6,651	\$13,211
(3) Total variable costs	\$51,500	\$101,453
Fixed costs		
Insurance	\$10,307	\$8,488
(4) Interest	\$9,941	\$14,713
(5) Labour - unpaid	\$4,633	\$3,391
(6) Leasing of building, equipment & quota transfers	\$926	\$40
Legal & accounting	\$5,894	\$1,411
Fishing licence fees	\$7,301	\$4,978
Office & admin	\$3,242	\$1,669
Other licence fees	\$921	\$804
Slipping & mooring	\$9,191	\$2,833
Telephone etc.	\$6,769	\$3,367
Travel	\$824	\$353
Other	\$0	\$0
(7) Total fixed costs	\$59,948	\$42,047
(8) Total boat cash costs (3+7)	\$111,448	\$143,500
Profitability		
Boat gross margin (1-3)	\$95,189	\$38,784
(9) Total unpaid labour (2+5)	\$6,487	\$12,213
Gross operating surplus (1-8+9)	\$41,727	\$8,951
(10) Boat cash income (1-8)	\$35,241	-\$3,263
(11) Depreciation	\$15,152	\$8,550
(12) Boat business profit (10-11)	\$20,089	-\$11,813
(13) Profit at full equity (12+4+6) ^a	\$31,074	\$3,235
Boat capital		
(14) Fishing gear and equipment	\$193,349	\$164,813
Licence value	\$1,590,268	\$1,407,246
(15) Total working capital	\$1,783,617	\$1,572,059
Rate of return		
Rate of return on fishing gear and equipment (13 ^a /14*100)	14.5%	1.9%
Rate of return on total working capital (13 ^a /15*100)	1.7%	0.2%

^a Part of leasing and rent is assumed to cover depreciation of buildings and equipment so is excluded from profit at full equity.

Source: BDO analysis

Fishing activity

The average business that accessed the Lobster fishery in 2023/24 employed 1.0 fte jobs and fished on 44 days of the year, an increase from 41 days of fishing on average in 2022/23, but a slight decrease from 45 days in 2021/22 (Table 4-1).

Revenue and costs

Average gross income was \$145,848 and average total variable costs was \$58,016, producing an average boat gross margin of \$87,832. Average total fixed costs were \$57,613 which produced an average gross operating surplus of \$37,452 (excluding unpaid labour), a decrease from \$55,234 in 2022/23 and \$62,407 in 2021/22 (Table 4-1).

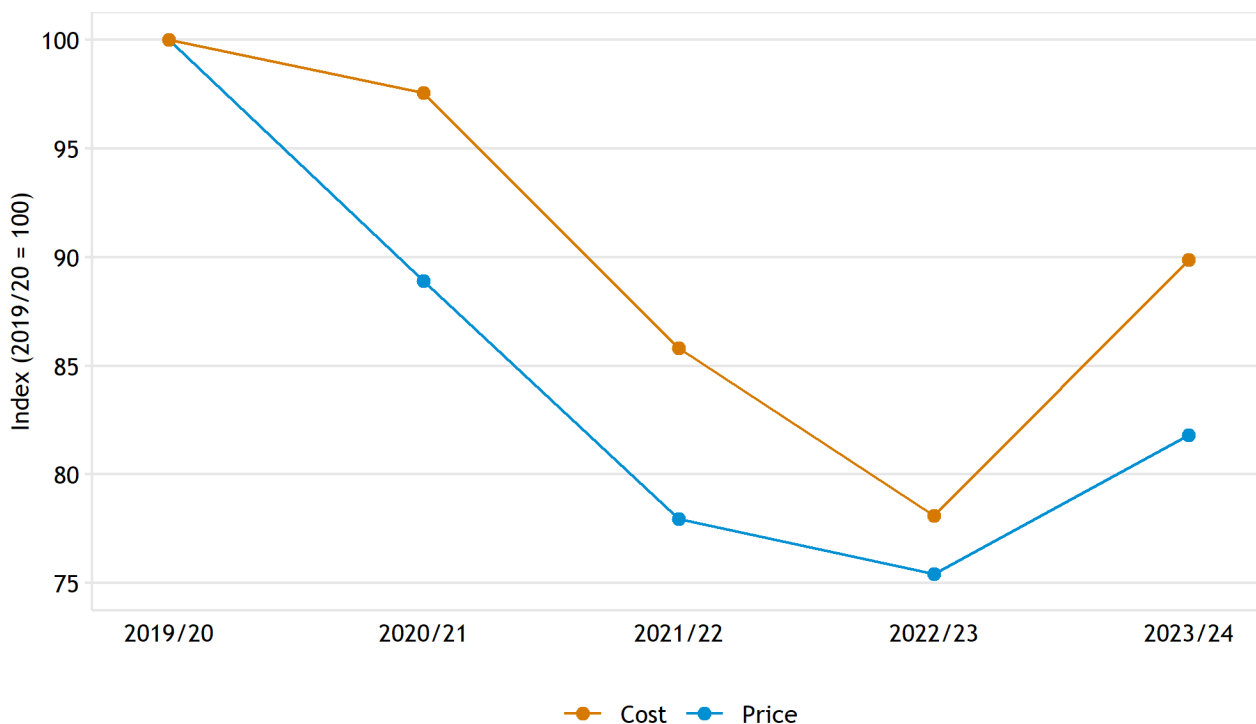
Profitability

Average boat business profit, which accounts for depreciation and unpaid labour, was \$15,928. Average profit at full equity, which excludes any leasing and interest costs, was \$27,443. Dividing profit at full equity by the value of capital produces a return on investment of 13.2 per cent for 2024/25 (down from 18.5 per cent in 2022/23 and up from 13.1 per cent in 2021/22) including the capital value of fishing gear and equipment only, or 1.5 per cent (down from 2.4 per cent in 2022/23 and 1.6 per cent in 2021/22) when also including the capital value of fishery shares or licences (Table 4-1).

Cost prize squeeze

Price and cost indices for the Lobster Fishery for the years 2019/20 to 2023/24 are summarised in Figure 4-1. These indicators are derived from the average price and average cost per kilogram of catch. Between 2019/20 and 2023/24, the average price and cost decreased in real terms. However, the average price decreased more than cost, squeezing profits in the fishery.

Figure 4-1 Price and cost indices for the Lobster fishery, 2019/20 to 2023/24



Source: BDO analysis

4.2. Assets, liabilities, and equity

Commercial fishing businesses in New South Wales utilise valuable fishery shares, vessels or vehicles and other working capital. They may hold cash and may also hold debt to finance the business and other liabilities. The total assets held by a business less its total liabilities is the business' equity, which can be expressed in dollar terms or as a percentage of total asset value. Table 4-6 presents a simple average of the equity of all surveyed businesses that access the Lobster fishery. The averages are based on business asset and debt data collected in the 2023/24 survey. The average is of whole businesses and includes the share values for all fisheries that they access, unlike the financial indicator tables above which present averages of proportions of businesses that access the fishery.

Table 4-6 Assets, liabilities and equity in the Lobster fishery, 2023/24

	Value
Assets	
Share value	\$2,207,748
Working capital	\$366,331
Other assets	\$248,571
Total assets	\$2,822,651
Liabilities	
Total liabilities	\$297,857
Equity	
Total equity	\$2,524,794
Equity/Total assets	89.4%

Source: BDO analysis

Share values in the Lobster fishery are shown in Table 4-7. Values are self-reported by respondents in the 2024/25 survey and shown where the surveys provided at least 5 observations (to maintain confidentiality), these prices were used to calculate indicators. Share values for other fisheries are shown in 'Economic Indicators for NSW Commercial Fisheries for 2023/24' (BDO 2025).

Table 4-7 Share values in the Lobster fishery, 2023/24

Endorsement	Abbreviation	Value per unit
Access share		
Lobster	LOB	\$14,500

Source: BDO analysis

5. Economic contribution

Estimates of the economic contribution of the Lobster fishery to the NSW and regional economies in 2023/24 are outlined in this section.

Economic contribution analysis is a descriptive analysis that traces the gross economic activity of the fishery as dollars of expenditure cycle through the regional and state economies. The analysis utilised the detailed industry specific data reported above in combination with other regional/state data that describe the linkages that exist within the regional economies.

Contribution or impact?

An *economic contribution analysis* (presented in this report) can be thought of as a *footprint* or *snapshot* analysis of economic activity. It is distinctly different to an *economic impact analysis*, which can be thought of as an analysis of a *change* in economic activity (not the subject of this report). An *economic impact analysis* is an appropriate approach for evaluating a *change* where an industry is generating new revenues that would otherwise not occur, keeping revenues in the region that would otherwise be lost, or being subject to changes that result in existing revenues being lost.

Direct and flow-on effects

The following types of activity are presented in this report as *direct* economic contribution:

- the landed beach value of production
- the sustaining capital expenditure of fishing businesses
- the margin value of each stage of the supply chain.

Each of these activities generates flow-on effects to other sectors through purchases of inputs and the employment of labour. These effects have been estimated using input-output analysis (BDO 2025).

Post-harvest supply chain

Figure 5-1 illustrates the direct output at key stages of the Lobster fishery post-harvest supply chain used to calculate economic contribution, along with the final sales destinations (indicated by green arrows). The market destination values in Figure 5-1 differ from those implied by Table 3-1 as Figure 5-1 captures all value-added products downstream of the landed catch, while Table 3-1 captures catch exported by fishers or processors at beach price.

In 2023/24, the value of output from fishing (also known as GVP) generated in the Lobster fishery was \$10.1 million. The product then moved through processing and marketing, including wholesaling, which generated approximately \$3.1 million. Around 91 per cent of the product was distributed across the food services and retail sectors within the NSW market, generating an additional \$8.1 million and \$1.1 million, respectively. The remaining 9 per cent was directly exported. Supporting transport activities contributed a further \$1.2 million.

This resulted in a total final sales value of \$23.5 million, comprising less than \$100,000 in interstate export sales, \$1.3 million in overseas export sales, and the remainder in NSW sales.

Figure 5-1 Lobster fishery post-harvest supply chain, direct output generated by each sector and final destination value (\$m)



Source: BDO analysis

Economic contribution indicators

Economic contributions have been specified in terms of the following indicators.

- Value of output (direct only and equivalent to gross value of production or GVP)
- Employment (fte and total jobs)
- Household income
- Gross regional (and state) product.

5.1. Economic contribution to New South Wales

The estimated economic contribution of the Lobster fishery to New South Wales in 2023/24 is presented in Table 5-1.

Direct contribution measures fishing and downstream supply chain activities (i.e. capital expenditure, processing and marketing, retail, food service and transport). Flow-on contribution measures the economic effects in other sectors of the economy (retail and wholesale trade, manufacturing, etc.) generated by fishing and supply chain activities, that is, the multiplier effects. Flow-on effects are disaggregated by industry with the top 10 industries shown separately in the table. Capital expenditures are assumed to be the same as depreciation (i.e. sustaining the capital stock) which may or may not be the case in a given year but is a reasonable assumption in the long-run. Economic contribution of capital expenditure should, therefore, be interpreted as a long-run average.

Value of output

The value of output at beach price (also known as GVP) generated directly in the Lobster fishery in 2023/24 was \$10.1 million. The remainder of the post-harvest supply chain generated an additional \$13.7 million in output (Table 5-1).

Household income

Estimated household income of \$1.8 million was earned in 2023/24 in the Lobster fishery (wages of employees and estimated drawings by owner/operators) while the associated post-harvest supply chain of the catch and capital expenditure by fishing businesses generated an estimated additional \$4.7 million in household income.

Flow-on business activity was estimated to support a further \$9.7 million of household income in 2023/24 state-wide. The estimated total household income contribution in New South Wales was \$16.2 million in 2023/24 (Table 5-1), a decrease from \$16.6 million in 2022/23.

Table 5-1 Economic contribution to New South Wales of the Lobster fishery, 2023/24

Sector	Output (\$m)	Gross state product (\$m)	Household income (\$m)	Employment (fte jobs)	Employment (total jobs)
Direct					
Fishing business operation	10.1	5.2	1.8	68	115
Fishing business capital expenditure	0.3	0.2	0.1	1	2
Processing and marketing	3.1	1.5	0.8	9	8
Transport	1.2	0.6	0.4	4	4
Retail	1.1	0.7	0.4	8	9
Food service	8.1	4.2	2.9	53	69
Total direct	23.8	12.4	6.5	142	206
Flow-on					
Retail trade		1.2	0.9	13	15
Personal & other services		0.9	0.8	13	14
Professional, scientific & technical services		1.7	1.5	12	11
Admin support services		1.1	0.8	12	12
Food & beverage services		0.6	0.5	8	10
Health & community services		0.7	0.6	7	8
Wholesale trade		0.9	0.6	6	5
Public order & safety		0.3	0.3	4	4
Finance		1.3	0.3	4	4
Insurance & other financial services		0.7	0.4	4	3
Other sectors		7.8	3.0	30	29
Total flow-ons		17.1	9.7	111	114
Total contribution		29.5	16.2	253	320

Source: BDO analysis

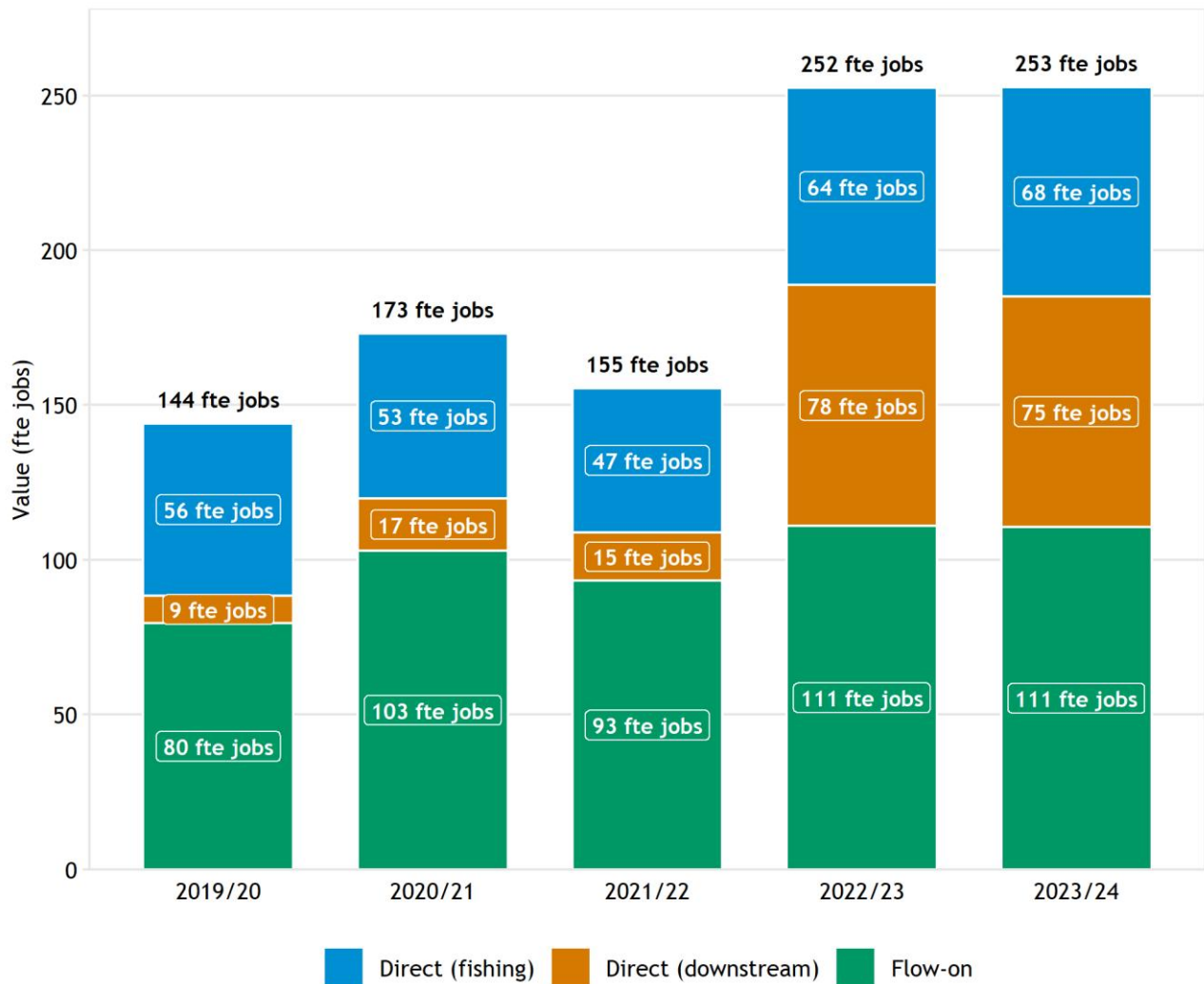
Employment

The Lobster fishery directly contributed an estimated 68 fte jobs in 2023/24 while the associated post-harvest supply chain of the catch and capital expenditure by fishing businesses supported additional employment of around 75 fte jobs (Table 5-1).

Flow-on business activity was estimated to support a further 111 fte jobs in 2023/24 state-wide. These jobs were concentrated in the retail trade, personal & other services, and admin support service sectors. The total employment contribution to New South Wales was estimated to be 253 fte jobs in 2023/24 (Table 5-1), a slight increase from 252 fte jobs in 2022/23 (Figure 5-2).

The economic contribution to employment of the Lobster fishery between 2019/20 to 2023/24 is illustrated in Figure 5-2. Direct employment has increased since 2019/20 from around 56 fte jobs to 68 fte jobs in 2023/24. Direct downstream activity saw a significant increase over the same period which is driven by the inclusion of additional supply chain activities in 2022/23. Flow-on business activity has increased from 80 fte jobs in 2019/20 to 111 fte jobs between 2019/20 and 2023/24. Overall total employment has increased over the same period.

Figure 5-2 Economic contribution to employment of the Lobster fishery, 2019/20 to 2023/24^a



^a The results increase from 2022/23 is due to improved supply-chain modelling.
Source: BDO analysis

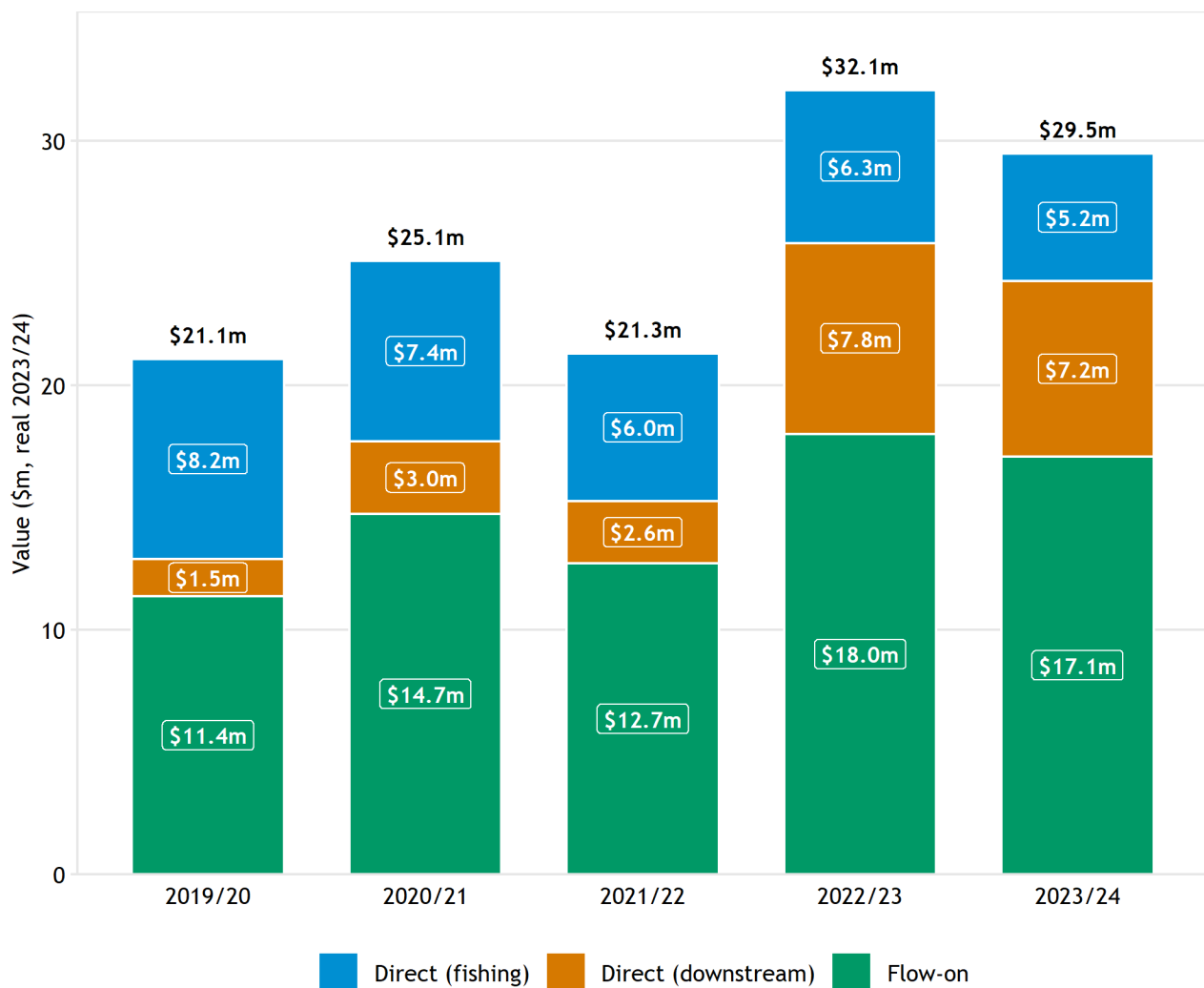
Contribution to GSP

Contribution to GSP is measured as value of output less the cost of goods and services (including imports but excluding wages) used in producing the output. Estimated GSP of \$5.2 million was produced in 2023/24 by the Lobster fishery while associated the post-harvest supply chain of the catch and capital expenditure by fishing businesses generated an estimated additional \$7.2 million in GSP.

Flow-on business activity was estimated to support a further \$17.1 million of GSP in 2023/24 state-wide. The estimated total GSP contribution in New South Wales was \$29.5 million in 2023/24 (Table 5-1), a decrease from \$32.1 million in 2022/23 (Figure 5-3).

Figure 5-3 illustrates the total economic contribution (direct and flow-on effects) of the fishery to GSP. Direct contribution to fishing has decreased from \$8.2 million in 2019/20 to \$5.2 million in 2023/24. Flow-on effects have significantly increased over the same period which is driven by the inclusion of additional supply chain activities in 2022/23. Flow-on business activity has increased between 2019/20 and 2023/24 from \$11.4 million to \$17.1 million. Overall economic contribution to GSP has increased.

Figure 5-3 Economic contribution to GSP of the Lobster fishery, 2019/20 to 2023/24^a



^a The results increase from 2022/23 is due to improved supply-chain modelling.
Source: BDO analysis

5.2. Economic contribution to regions of New South Wales

Table 5-2 presents the estimated economic contribution of the Lobster fishery to regions of New South Wales in 2023/24. Direct activity includes fishing, capital and post-harvest supply chain activity. In terms of fte employment including all flow-on effects, the largest contributions of the Lobster fishery were to Metropolitan (138 fte jobs) and Central (49 fte jobs).

Table 5-2 Economic contribution to New South Wales of the Lobster fishery, by region, 2023/24

Region	Output (\$m)	Gross regional product (\$m)	Household income (\$m)	Employment (fte jobs)	Employment (total jobs)
Direct					
Upper North Coast	<0.1	<0.1	<0.1	1	2
Clarence	0.2	<0.1	<0.1	1	3
North Coast	2.1	0.9	0.6	13	22
Central	5.9	3.5	1.0	29	48
Metropolitan	13.1	6.7	4.3	80	105
Upper South Coast	1.6	0.9	0.3	10	14
Lower South Coast	1.0	0.4	0.2	8	12
New South Wales^a	23.8	12.4	6.5	142	206
Flow-on					
Upper North Coast		<0.1	<0.1	<1	1
Clarence		<0.1	<0.1	<1	1
North Coast		1.4	0.8	10	11
Central		2.7	1.7	19	20
Metropolitan		9.8	5.3	58	59
Upper South Coast		0.8	0.5	6	6
Lower South Coast		0.5	0.3	4	4
New South Wales^a		17.1	9.7	111	114
Total					
Upper North Coast		<0.1	<0.1	2	3
Clarence		0.2	<0.1	2	3
North Coast		2.2	1.4	23	33
Central		6.2	2.7	49	69
Metropolitan		16.4	9.6	138	165
Upper South Coast		1.7	0.8	16	20
Lower South Coast		1.0	0.6	12	16
New South Wales^a		29.5	16.2	253	320

^a Regions do not sum to the state total due to exclusion of inter-regional flow-on effects.

Source: BDO analysis

6. Net economic return

Net economic return is the long-run profit from a fishery after all costs have been met, including fuel, crew costs, repairs, the opportunity cost of family and owner labour, fishery management costs, depreciation and the opportunity cost of capital (excluding endorsement) (Bath et al. 2018). These unit costs or long-term costs all need to be covered if the fishing business is to remain viable in the fishery. The cost of fisheries management is included as a cash cost to fishing businesses through licence fees, though this likely underestimates the cost of fisheries management as this cost is not fully recovered from businesses. The opportunity cost of capital is equivalent to what the fisher's investment could have earned in the next most similar alternative use considering risk and skills required. What remains after the value of these inputs (labour, capital, materials and services) has been netted out is the net economic return.

Commercial fishing operations in Australia are not risk free. Returns can be impacted both positively and negatively by factors such as natural events, changes in market conditions, disease, and management regulations. Determining the opportunity cost of capital involves an assessment of the degree of financial risk involved in the activity. For a risk-free operation, an appropriate opportunity cost of capital might be the long-term real rate of return on government bonds. The greater the risks involved, the greater is the necessary return on capital to justify the investment in that particular activity. For this analysis an opportunity cost of capital of 10 per cent has been used with sensitivity analysis at 7 and 15 per cent. The lower-bound is consistent with ABARES Australian fisheries economic indicator reporting for commonwealth managed fisheries (Bath et al. 2018). Commonwealth managed fisheries are generally larger and characterised by larger businesses with less overall variation than state managed inshore fisheries. This is why the 7 per cent used by ABARES is used as a lower-bound in this analysis. The upper-bound of 15 per cent represents a reasonable estimate for what an investor might expect when buying into a commercial fishery in New South Wales, given the variability and risk involved in this type of fishing business.

The net economic return results are presented in Table 6-1. Assuming an opportunity cost of capital of 10 per cent, net economic return generated in the Lobster fishery was estimated to be \$500,000 in 2023/24, a decrease from \$1.3 million in 2022/23 in real terms.

Table 6-1 Net economic return of the Lobster fishery, 2023/24

	Value (\$m)
Gross value of production	10.1
Less labour costs	1.8
Less materials & services	5.4
Less depreciation	1.0
Less opportunity cost of capital (10%)	1.3
Net economic return	0.5

Source: BDO analysis

The sensitivity analysis in Table 6-2 shows that, with the varying assumptions about opportunity cost of capital, net economic return was likely in the range of -\$100,000 to \$900,000.

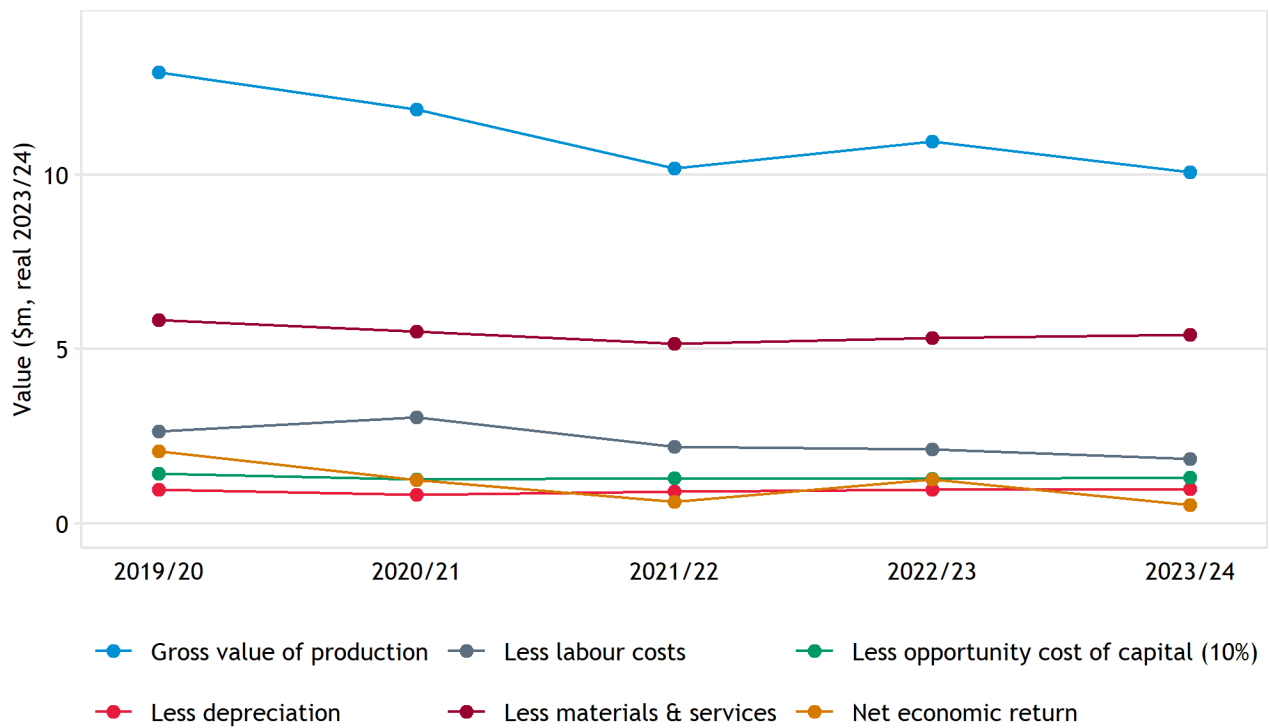
NER illustrated in Figure 6-1 shows an overall downward trend between 2019/20 and 2023/24. NER declined in 2021/22 and again in 2023/24 due to a decrease in GVP. The other indicators moved only marginally between 2019/20 and 2023/24.

Table 6-2 Sensitivity analysis of opportunity cost of capital on net economic return, 2023/24

Opportunity cost of capital (%)	7%	10%	15%
Less opportunity cost of capital (\$m)	0.9	1.3	2.0
Net economic return (\$m)	0.9	0.5	-0.1

Source: BDO analysis

Figure 6-1 Net economic return for the Lobster fishery, 2019/20 to 2023/24

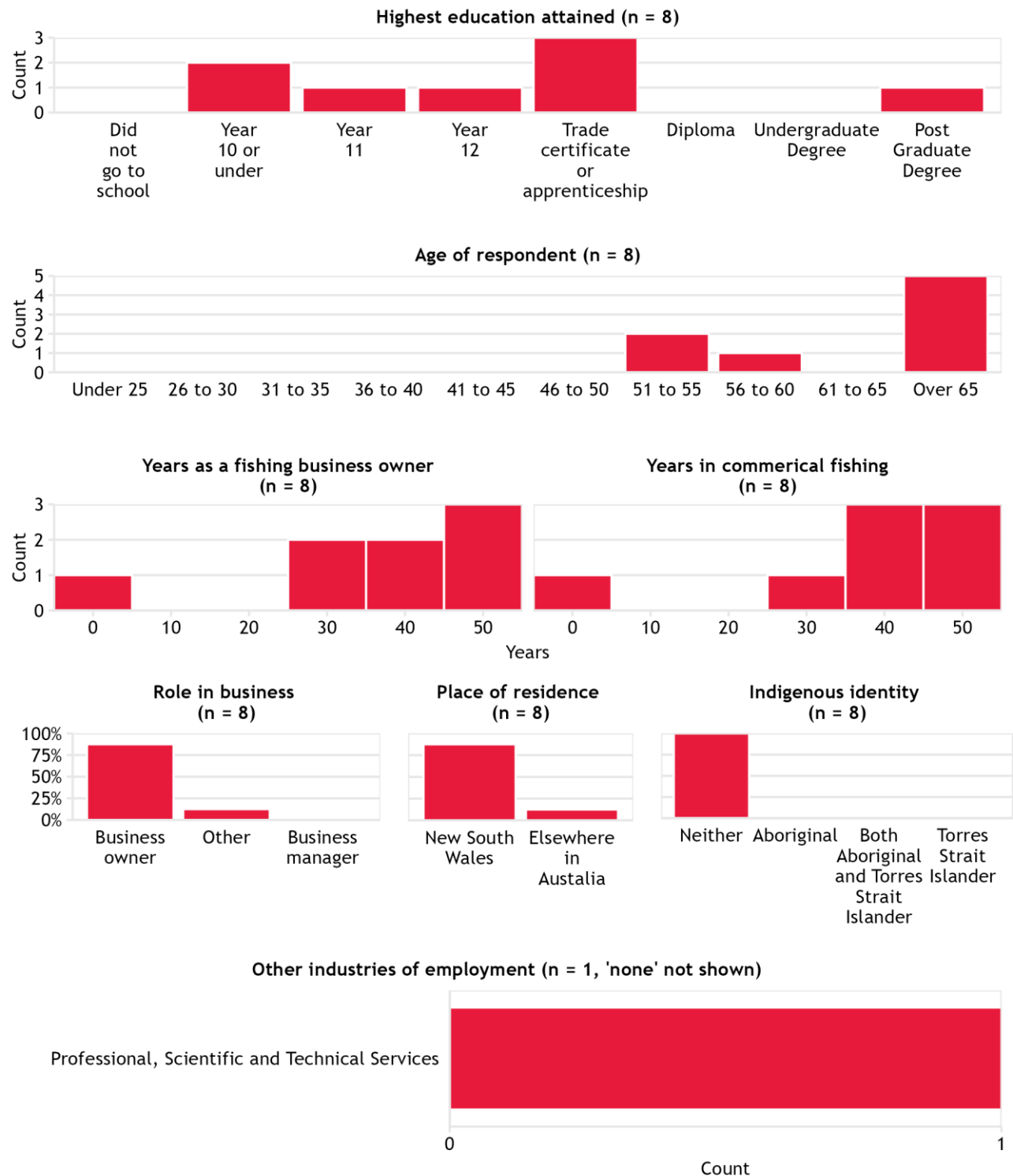


Source: BDO analysis

7. Demographics

Figure 7-1 present a demographic profile of fishers who accessed the Lobster fishery in New South Wales in 2023/24.

Figure 7-1 Demographic profile of the Lobster fishery in 2023/24



Source: 2025 business survey

8. Social indicators

Fishers may derive non-financial benefits or costs from the Lobster fishery and may contribute to the community in different ways. This section presents a series of social indicators including:

- Perceptions of management
- Lifestyle and satisfaction
- Personal wellbeing
- Community contribution.

Questions were asked on a point scale of 0 to 10, the annual change is then presented as the change from the average point of 2019/20 to the average point of 2023/24. The results for each fishery are calculated from the unweighted sub-sample of fishers who accessed each fishery during 2023/24.

The results in this section should be interpreted with caution due to potential non-response bias. Since participation in the survey was voluntary, the findings may disproportionately reflect the views of those who chose to respond.

8.1. Management

Figure 8-1 to Figure 8-3 presents fishers' perceptions of different aspects of fishery management and participation in management.

Understanding and compliance with regulation

Fishers who access the Lobster fishery were unanimous in agreement that they had a good understanding of the fishing rules and regulations that apply to their fishing activities (100 per cent). This has increased by 1.0 points since fishers were asked in 2019/20. Around 88 per cent also agreed that most commercial fishers comply with fishing rules and regulations, and most fishers felt that it was easy for their business to comply with them. These results indicate a high level of stewardship amongst fishers who access the Lobster fishery which is associated with lower costs of management and compliance activities, and a greater ability to achieve ecological sustainability.

Confidence in fisheries management

Around 25 per cent of the surveyed fishers who access the Lobster fishery do not trust DPIRD Fisheries to make the right decisions for managing commercial fishing in NSW, despite a slight improvement (1.5 points) since 2019/20. This indicates that there may be problems in terms of management achieving desired social outcomes. Fishers are more likely to trust fisheries management if they feel the processes used to make decisions are transparent. Similarly, 38 per cent of the surveyed fishers who access the Lobster fishery indicated that it was not easy to access information about commercial fishing management in NSW, this has declined by 0.4 points since 2019/20. Around 50 per cent of fishers who access the Lobster fishery also indicated that they did not feel that consultation processes are satisfactory, and 38 per cent do not feel that fisheries management is flexible enough. However, 75 per cent of fishers who access the Lobster fishery indicated that they do know how to have a say in fishery management which has improved since 2019/20.

These perceptions suggest that communication and transparency between DPIRD Fisheries and fishers that access Lobster fishery may be affecting trust in fisheries management.

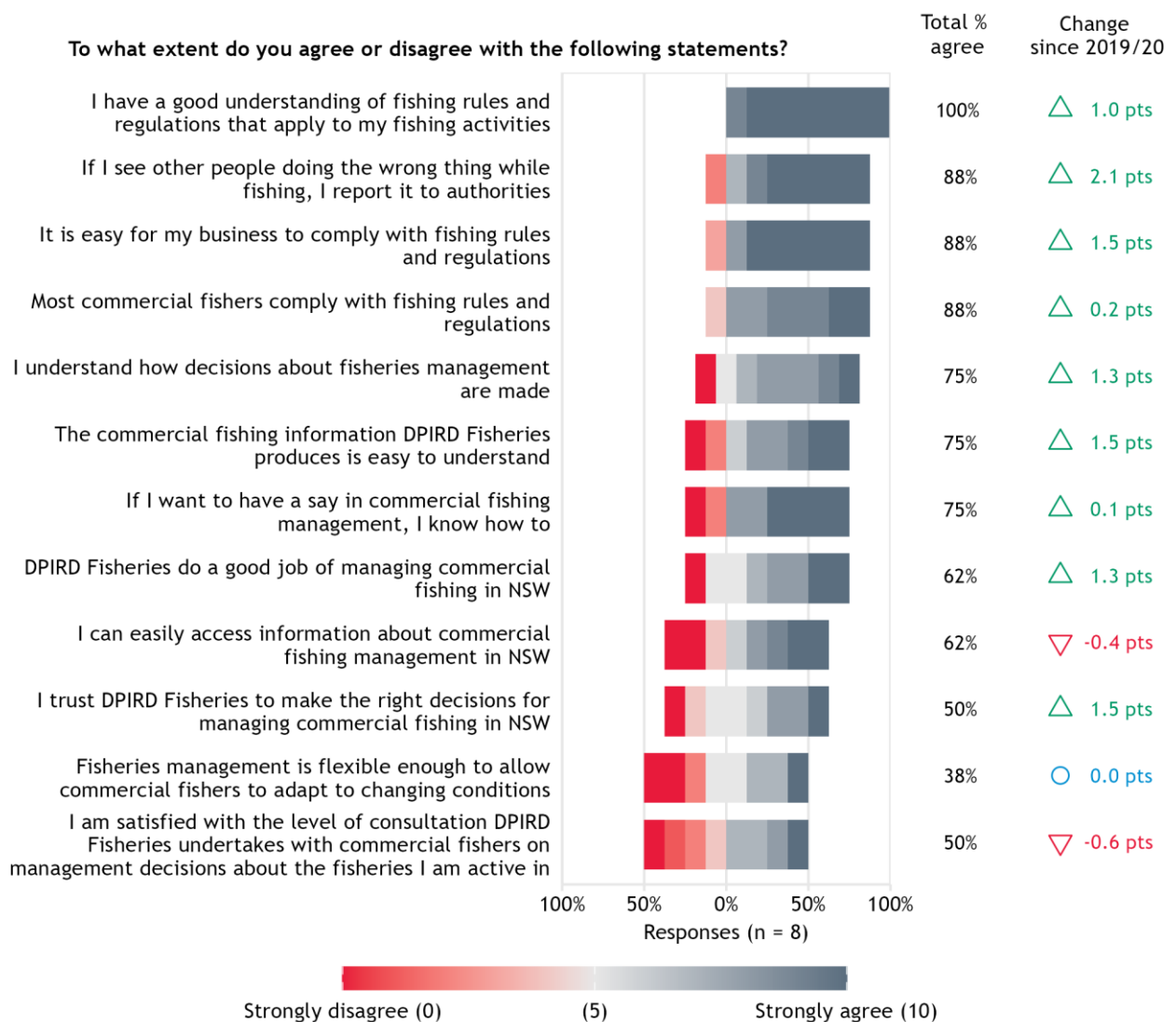
Perceptions of management fairness

A majority of fishers who access the Lobster fishery indicated that they felt fairly treated by fisheries managers in relation to catch allocation (75 per cent), gear restrictions (88 per cent) and access to fishing areas (75 per cent). However, 43 per cent indicated that they felt unfairly treated in relation to the processes around decision making in fisheries management. The sentiment of fairness has increased in all aspects since 2019/20.

Satisfaction with access to infrastructure

Fishers who access the Lobster fishery indicated high levels of satisfaction relating to infrastructure access across all facilities. Access to fuel and repair facilities increased the most by 2.0 points, with 100 per cent of fishers satisfied to some degree. While roads accessing fishing areas satisfaction saw no change from 2019/20 with 88 per cent of fishers being satisfied.

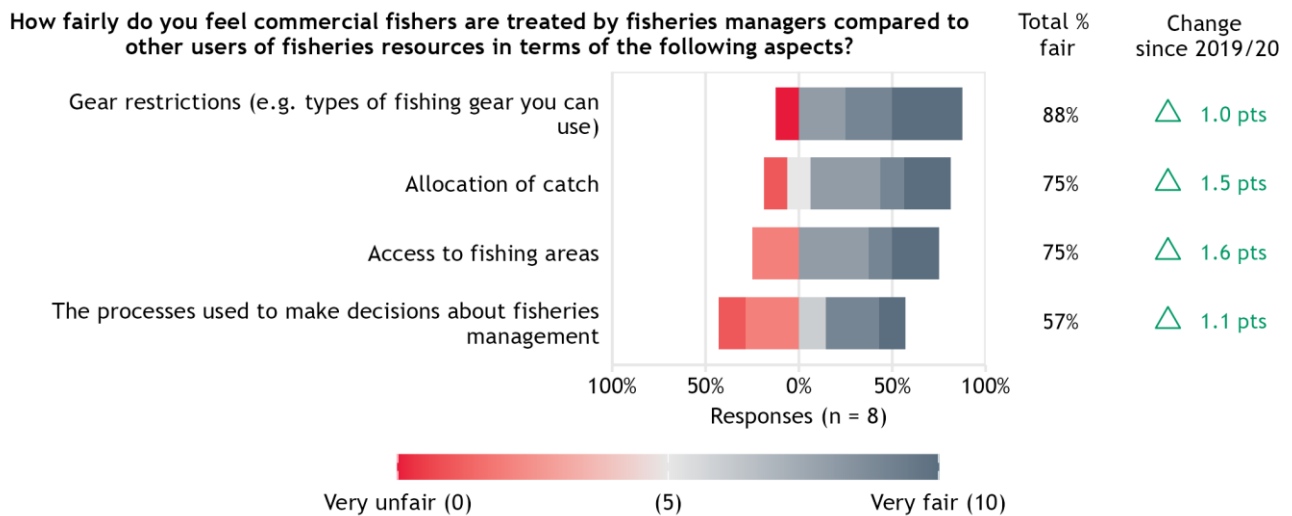
Figure 8-1 Perceptions of fishery management in the Lobster fishery, 2023/24^a



^a The change between the 2019/20 and 2023/24 surveys is calculated between licence holders who participated in both surveys and is quantified in points out of 10. For example, a change in average from 5 to 6 is stated as a change of 1.0 pts.

Source: 2025 business survey

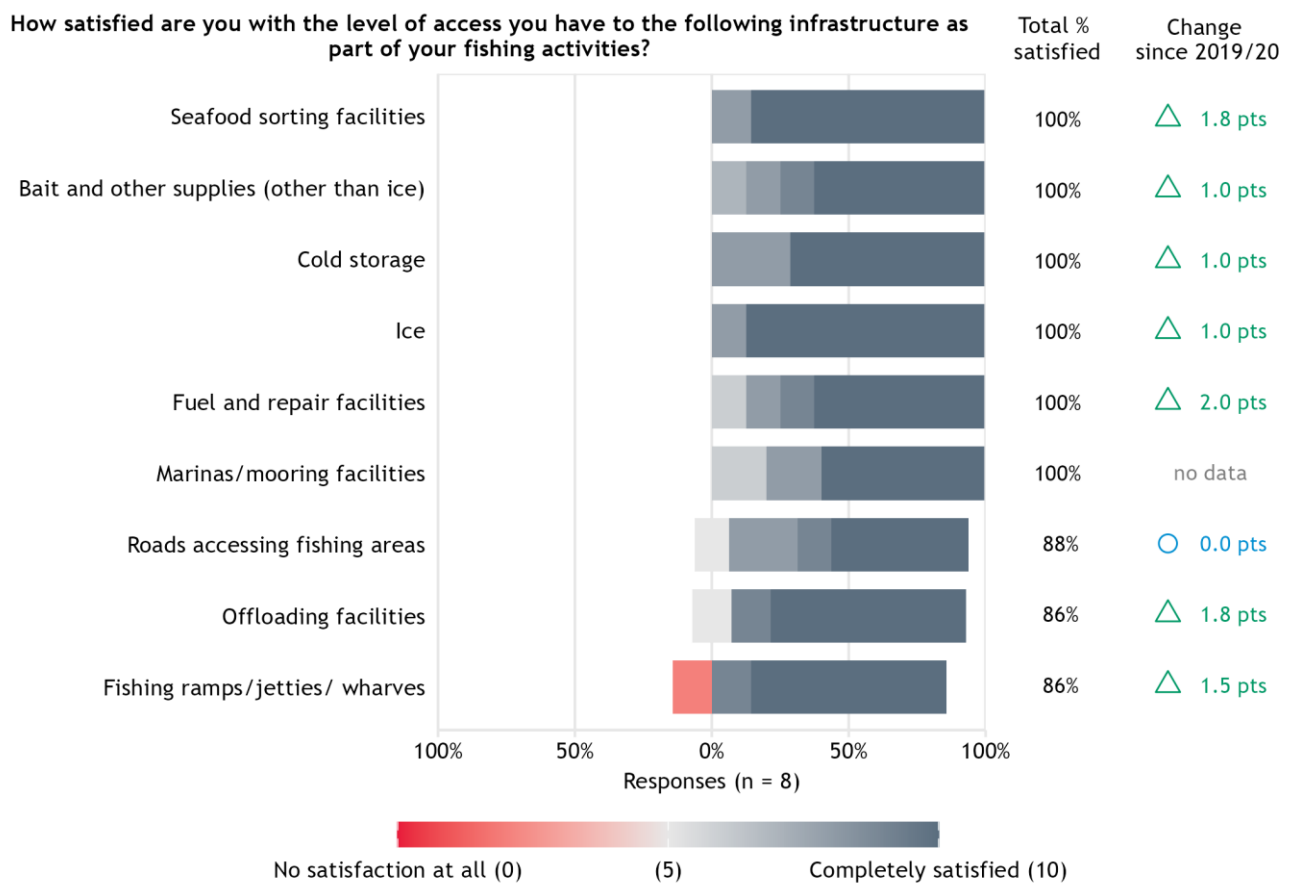
Figure 8-2 Perceptions of management fairness in the Lobster fishery, 2023/24^a



^a The change between the 2019/20 and 2023/24 surveys is calculated between licence holders who participated in both surveys and is quantified in points out of 10. For example, a change in average from 5 to 6 is stated as a change of 1.0 pts.

Source: 2025 business survey

Figure 8-3 Perceptions of infrastructure access in the Lobster fishery, 2023/24^a



^a The change between the 2019/20 and 2023/24 surveys is calculated between licence holders who participated in both surveys and is quantified in points out of 10. For example, a change in average from 5 to 6 is stated as a change of 1.0 pts.

Source: 2025 business survey

8.2. Fishing and lifestyle satisfaction

Figure 8-4 and Figure 8-5 present indicators of continuity, importance and satisfaction with different aspects of fisher's activity in the Lobster fishery.

Lifestyle satisfaction

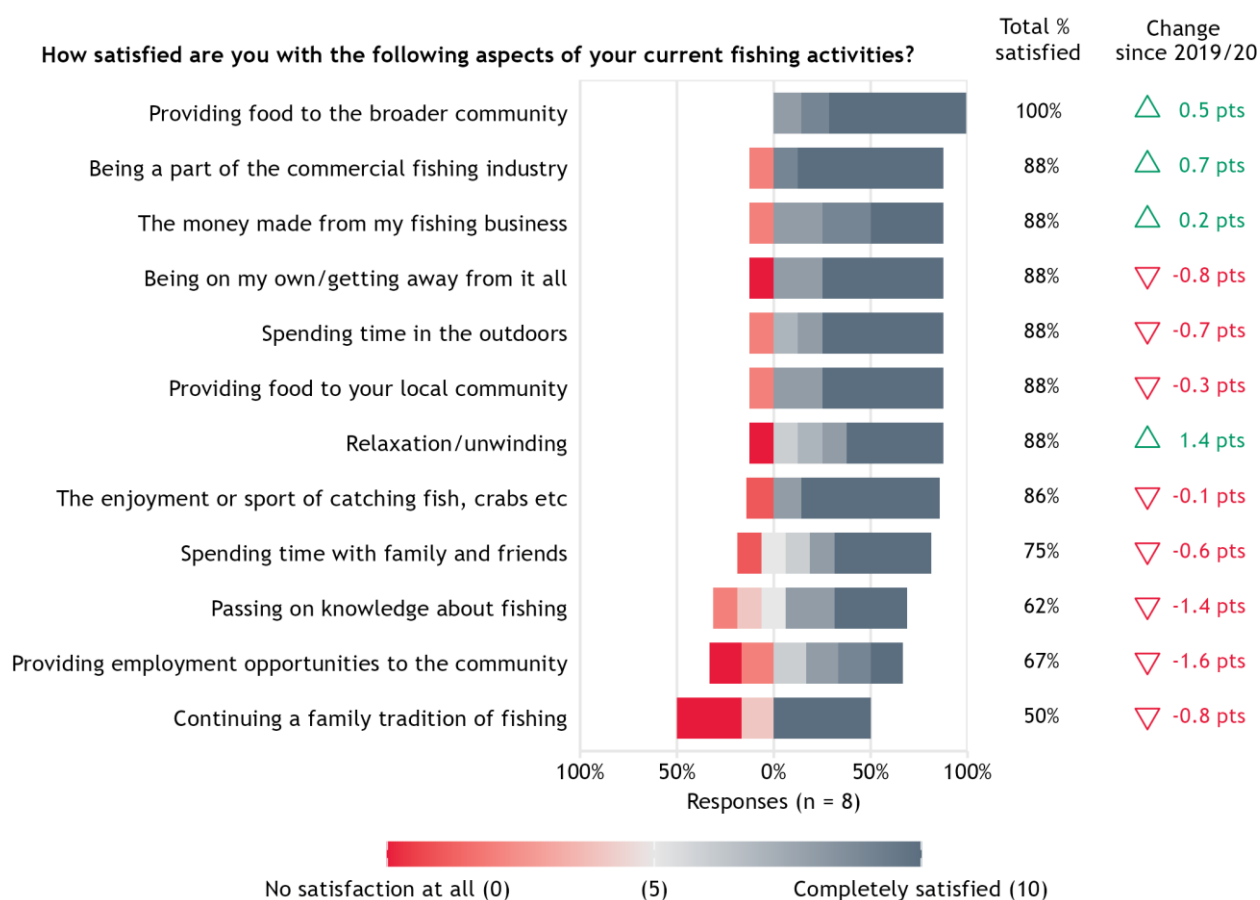
Fishers who access the Lobster fishery were unanimous in agreement that fishing is a very important aspect of their lives. Though agreeance has weakened by 0.2 points since 2019/20. Around 62 per cent indicated that they intend to continue fishing for as long as possible (fallen by 0.3 points) and 75 per cent indicated that they were satisfied, or completely satisfied with their commercial fishing activities over the last 12 months (up by 0.9 points).

Fishing satisfaction

A majority of fishers who access the Lobster fishery were satisfied with most aspects of their current fishing activities, though some indicated that they had less satisfaction passing on fishing knowledge (down by 1.4 points), being able to provide employment opportunities to the community (down by 1.6 points), and continuing a family tradition of fishing (down by 0.8 points).

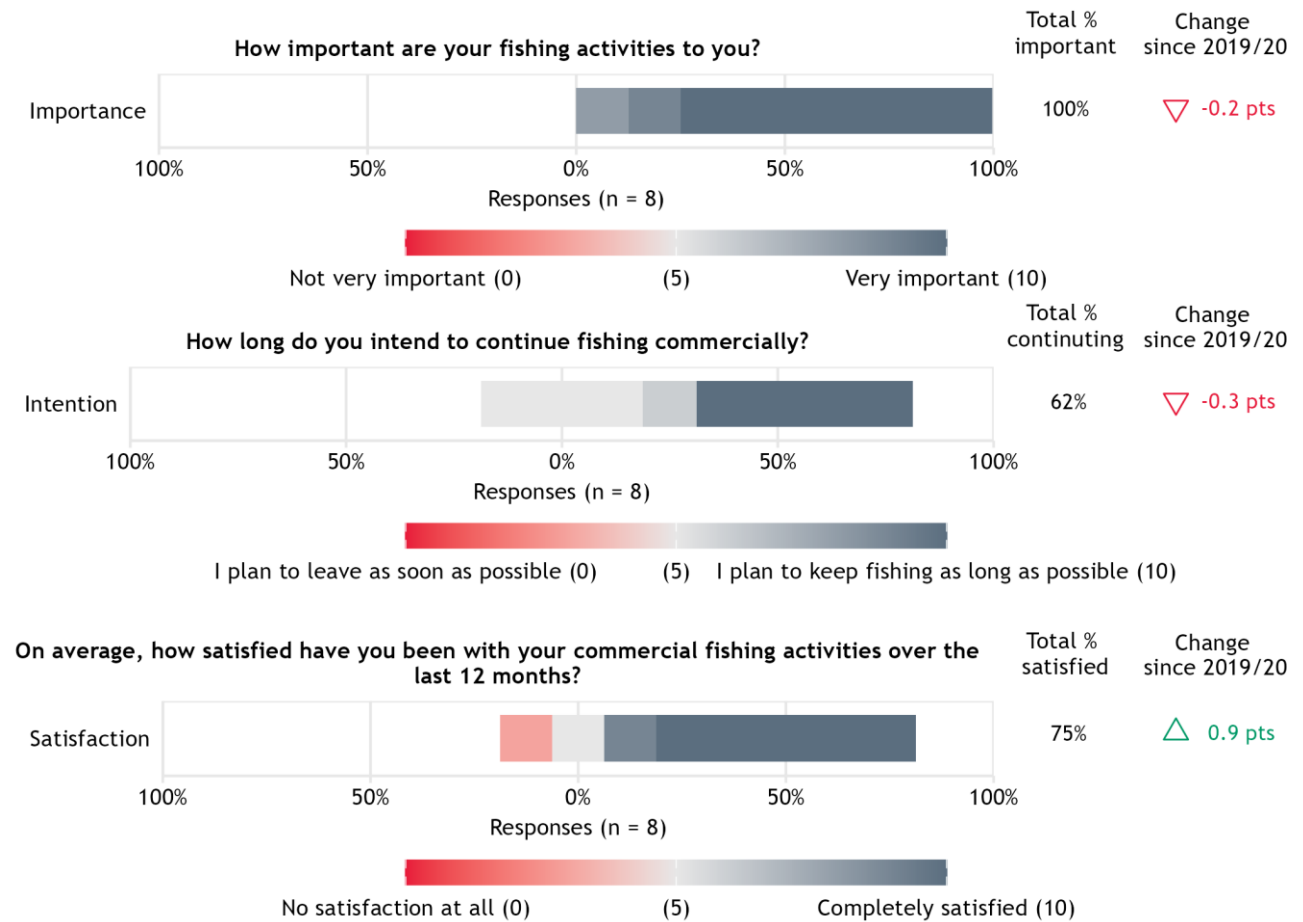
Overall, these results indicate that Lobster fishers are achieving general satisfaction with the cultural, recreational and lifestyle benefits derived from their fishing activities (as per Triantafillos et al.).

Figure 8-4 Satisfaction with aspects of the Lobster fishery, 2023/24^a



^a The change between the 2019/20 and 2023/24 surveys is calculated between licence holders who participated in both surveys and is quantified in points out of 10. For example, a change in average from 5 to 6 is stated as a change of 1.0 pts.
Source: 2025 business survey

Figure 8-5 Satisfaction in the Lobster fishery, 2023/24^a



^a The change between the 2019/20 and 2023/24 surveys is calculated between licence holders who participated in both surveys and is quantified in points out of 10. For example, a change in average from 5 to 6 is stated as a change of 1.0 pts.

Source: 2025 business survey

8.3. Global life satisfaction and personal wellbeing

Global life satisfaction index

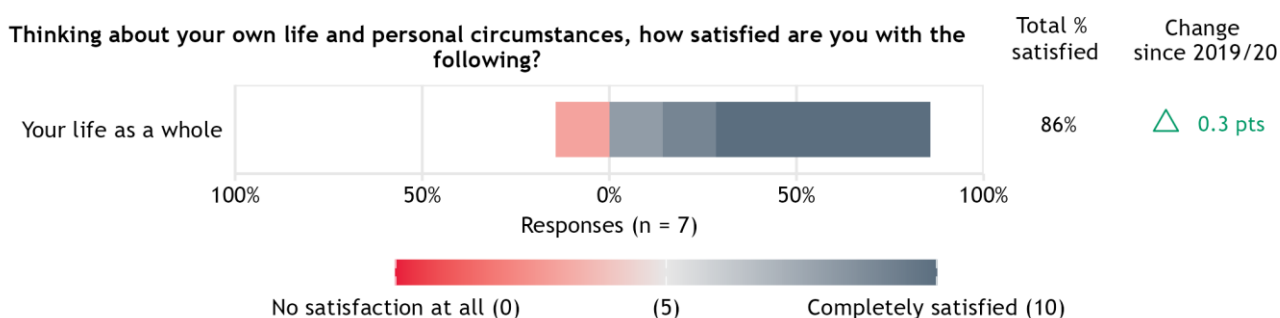
The Global Life Satisfaction (GLS) index is a widely recognised, validated measure of overall life satisfaction, designed to capture an individual's subjective assessment of their life as a whole. The GLS provides a benchmark for comparing life satisfaction between groups, regions, or over time. A higher GLS score indicates greater overall satisfaction with life.

The GLS is typically calculated based on survey responses to a single, global question such as “All things considered, how satisfied are you with your life as a whole these days?”. Respondents rate their satisfaction on a scale from 0 (not at all satisfied) to 10 (completely satisfied). The average of these responses, multiplied by 10, forms the GLS index.

This index is particularly useful for summarising the overall quality of life experienced by individuals, beyond specific domains of wellbeing. The GLS index for the Lobster fishery (Figure 8-6) is compared against the average for Australia, New South Wales and regional New South Wales, as reported in the Regional Wellbeing Survey (UC 2023), below:

- Australia: 71.9
- New South Wales: 71.6
- Regional New South Wales: 71.8
- Lobster fishery: 85.7.

Figure 8-6 Global life satisfaction in the Lobster fishery, 2023/24^a



^a The change between the 2019/20 and 2023/24 surveys is calculated between licence holders who participated in both surveys and is quantified in points out of 10. For example, a change in average from 5 to 6 is stated as a change of 1.0 pts.
Source: 2025 survey

Personal wellbeing index

The Personal Wellbeing Index (PWI) is a validated measure of wellbeing with established benchmarks that are useful for comparing between groups. A higher PWI means higher subjective wellbeing.

The PWI is based on the answers of respondents to the seven questions shown in Figure 8-7. Each question asks about satisfaction with a specific domain of life. Respondents rate each domain on a scale from 0 (completely dissatisfied) to 10 (completely satisfied). The PWI is then calculated as the average of these seven questions, multiplied by 10.

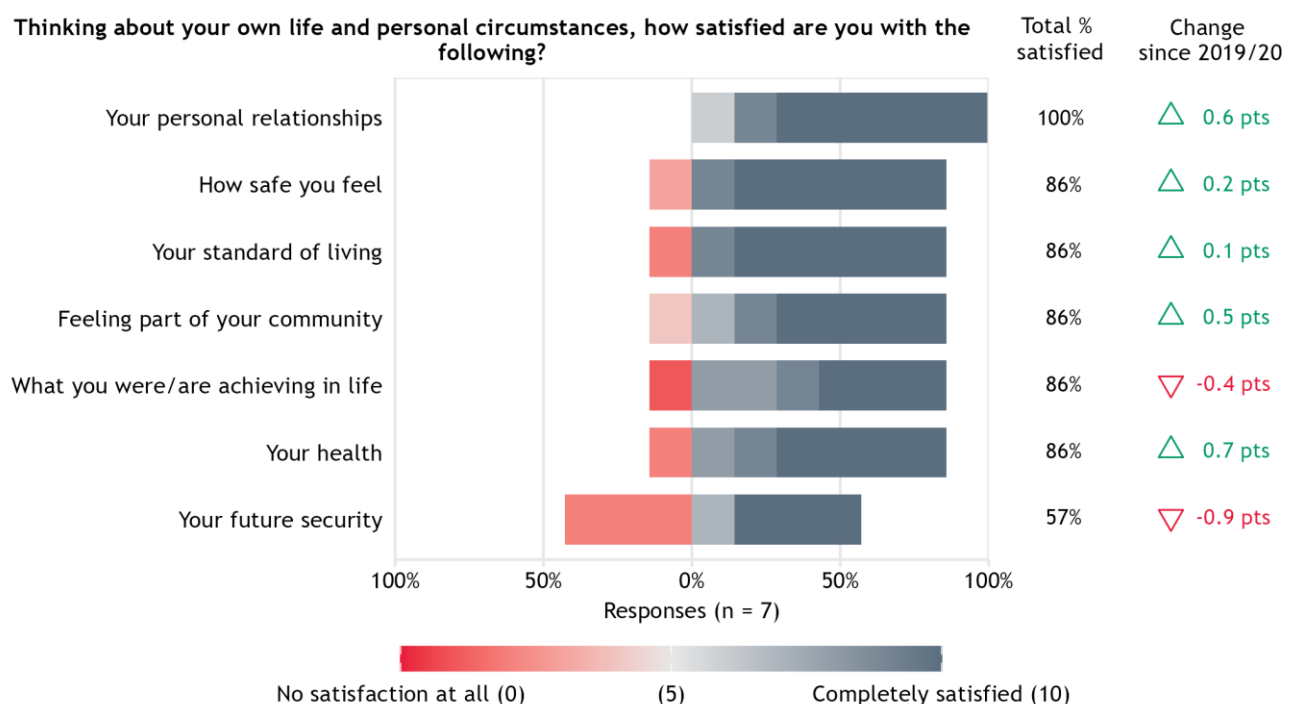
While the PWI offers a valuable overall measure, the individual questions themselves also provide useful information about the levels of different domains of wellbeing for fishers that access the Lobster fishery.

The PWI for the Lobster fishery is compared against the average for Australia, New South Wales and regional New South Wales, as reported in the Regional Wellbeing Survey (UC 2023), below:

- Australia: 70.9
- New South Wales: 71.0
- Regional New South Wales: 70.8
- Lobster fishery: 81.8

Fishers who access the Lobster fishery indicated that they had very high levels of personal wellbeing across all PWI domains. However, 43 per cent of fishers who access the Lobster fishery indicated that they were dissatisfied with their future security. This mirrors the overall pattern across NSW commercial fisheries.

Figure 8-7 Personal wellbeing in the Lobster fishery, 2023/24^a



^a The change between the 2019/20 and 2023/24 surveys is calculated between licence holders who participated in both surveys and is quantified in points out of 10. For example, a change in average from 5 to 6 is stated as a change of 1.0 pts.

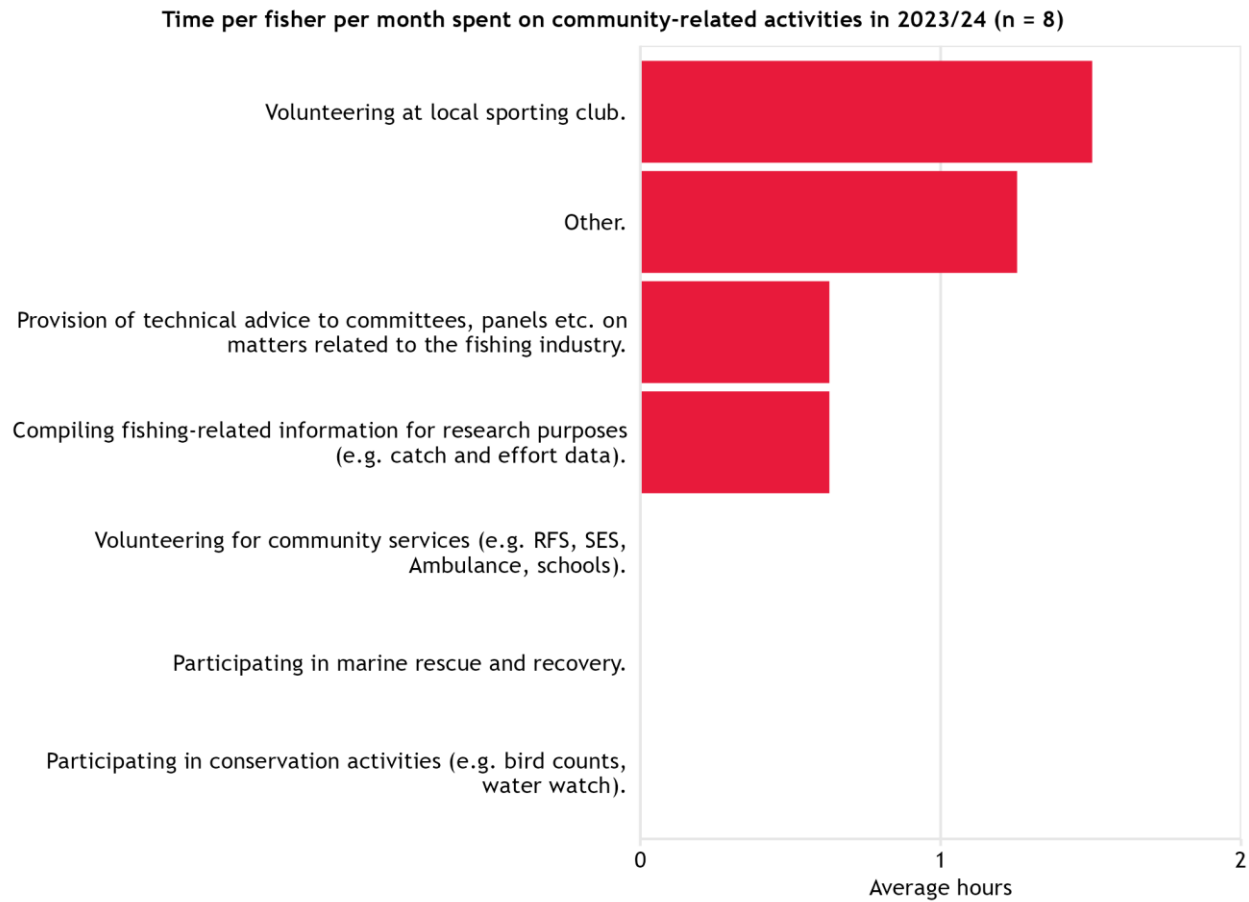
Source: 2025 business survey

8.4. Community contribution

Fishers that access the Lobster fishery spend some of their time contributing to the community through various activities. The average number of hours contributed per month is presented in Figure 8-8.

Fishers who access the Lobster fishery indicated that they make a significant contribution to the community. This was particularly in the form of time spent volunteering at a local sporting club, other activities (such as lecturing or assisting marine research) and contributing to providing technical advice related to the fishing industry.

Figure 8-8 Community contribution in the Lobster fishery, 2023/24



Source: 2025 business survey

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The nature and scope of work has been determined by agreement between BDO and the Client. This consulting engagement does not meet the definition of an assurance engagement as defined in the 'Framework for Assurance Engagements', issued by the Auditing and Assurances Standards Board, Section 10.

Except as otherwise noted in this report, we have not performed any testing on the information provided to confirm its completeness and accuracy. Accordingly, we do not express such an audit opinion and readers of the report should draw their own conclusions from the results of the review, based on the scope, agreed-upon procedures carried out and findings.

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