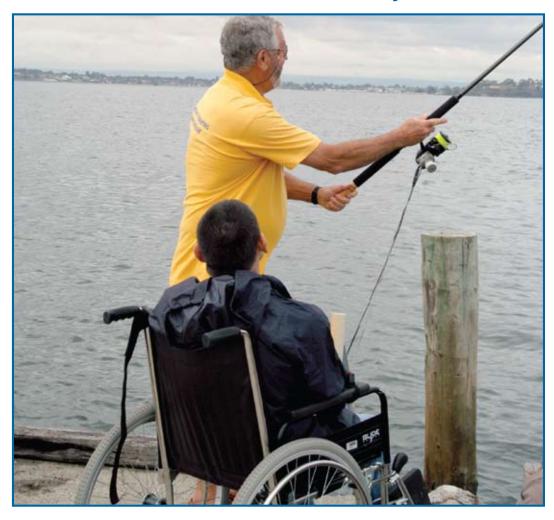
Department of Fisheries Community Survey 2006

by Tara Baharthah











Community Survey 2006

By Tara Baharthah

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ABSTRACT

A telephone survey of the Western Australian public was conducted to assess the level of success of programmes implemented by the Department of Fisheries. The sample comprised of 701 interviews, 422 in the metropolitan area and 279 in regional areas throughout the state.

This community survey was used to determine the level of recall and awareness of the Department of Fisheries, the understanding and support of the community for the Department of Fisheries management strategies and examine key aspects of community participation in recreational fishing.

It is estimated that the overall participation rate for recreational fishing in Western Australia is 788,000 individuals or 45.6% of the total population. Due to the low survey response rate this estimate of participation rate may not be representative of the total population.

An overall satisfaction-scoring index has been developed to measure and monitor the satisfaction of recreational fishers in Western Australia. The satisfaction index is a combination of knowledge, management, and confidence. The satisfaction index for recreational fishing was 77.0%.

The satisfaction rating of the broader community is their perceptions of the extent to which the Department of Fisheries is achieving sustainable fisheries management objectives. The Department of Fisheries was given a satisfaction rate of 66.1% across its four service areas by the Western Australian public.

1.0 INTRODUCTION

A community survey of the Western Australian public was conducted to assess the level of success of programs implemented by the Department of Fisheries.

The objectives of the research were to:

- Assess the level of recall and awareness of the Department of Fisheries informational and promotional activities;
- Assess the understanding and support of the community for the Department of Fisheries management strategies across all programmes (Recreational Fisheries, Commercial Fisheries, Fish and Fish Habitat Protection, and Aquaculture and Pearling); and
- Examine key aspects of community fishing such as satisfaction with the quality of recreational fishing and knowledge of the rules that apply.

2.0 METHOD

The survey was conducted by telephone during May 2006. The fieldwork was conducted by Asset Research. Telephone numbers were selected randomly from the DTMS white pages on CD-ROM. Respondents were males and females older than 17 years and residing in Western Australia. The sample comprised:

- 422 Perth metropolitan interviews; and
- 279 regional interviews.

The same questionnaire (Appendix A) and answer sheet (Appendix B) were used for all respondents.

All data was entered into a Microsoft Access database. Analysis was performed using Microsoft Excel. Graphs were produced using SigmaPlot.

The survey response rate of completed interviews compared to refusals was 28%. This was significantly lower than the 2005 Community Survey response rate of 49%.

3.1 Participation rate in recreational fishing

Recreational fishing in Western Australia includes angling, crabbing, prawning, spearfishing, fishing for lobsters, as well as the collection of shellfish such as abalone or aquarium fish. It is estimated that the overall participation rate for recreational fishing in Western Australia is 788,000 individuals or 45.6% of the total population.

The 2006 participation rate for recreational fishing is calculated as follows:

Metropolitan area:

Sample size for males in Perth metropolitan area = 211
The participation rate for Perth metropolitan males = 0.555
Sample size for females in Perth metropolitan area = 211

The participation rate for Perth metropolitan females = 0.308

Regional areas (non metropolitan areas):

Sample size for males in regional areas = 140
The participation rate for regional males = 0.671
Sample size for females in regional areas = 139
The participation rate for regional females = 0.374

Assumption: Persons aged from 0 to 4 years do not participate in recreational fishing.

ABS population figures 2001 (Australian Bureau of Statistics 2002):

| Number of males in the Perth metropolitan area | = | 656,798 |
|--|---|---------|
| Number of females in the Perth metropolitan area | = | 683,195 |
| Number of males in regional areas | = | 265,470 |
| Number of females in regional areas | = | 245,789 |
| Males aged $0-4$ in Perth metropolitan area | = | 43,879 |
| Females aged $0-4$ in Perth metropolitan area | = | 41,504 |
| Males aged 0 – 4 in regional areas | = | 19,197 |
| Females aged $0-4$ in regional areas | = | 18,129 |
| | | |

Hence the number of persons participating in recreational fishing is calculated as follows:

```
+ 0.555 (656,798 – 43,879)
```

The participation rate is calculated as follows:

number of persons participating / population aged 5 years and over

```
= 788,065 / 1,728,543
```

^{+0.308(683,195-41,504)}

^{+0.671(265,470-19,197)}

^{+0.374(245,789-18,129)}

^{=788,065}

^{= 0.456}

Hence the overall participation rate in recreational fishing for residents of Western Australia was 45.6%.

95% Confidence interval for participation rate and number participating

The 95% confidence interval for the participation rate in recreational fishing is between 41.9% and 49.3%. The 95% confidence interval for the number of persons participating in recreational fishing is between 724,781 and 851,349.

Comparison of participation rate with previous years

The estimated participation rate has increased from 31% in 2005 to 46% in 2006 (Table 1). The variation in the estimates of participation rate is likely due to the different way that the data was collected and the participation rate calculated (Figure 1). The low response rate for this year's survey may have resulted in biased estimates for participation and satisfaction. The survey response rate for 2005/06 was 28 percent, significantly lower than for previous years surveys (41 percent completed interviews 2004/05). Non-response bias occurs where people that respond to the survey have different opinions and activities to those that do not respond. Consequently the opinions of the 72% of people that refused to participate in this year's survey are not determined. The trend in recreational fishing participation will become apparent in future years.

 Table 1
 Participation rate for recreational fishing.

| Source | Year | Participation Rate % | Mean No. of days/trips per year |
|--------------------|------|----------------------|---------------------------------|
| ABS | 1987 | 27 | |
| Patterson Research | 1994 | 35 | 9.5 trips |
| Reark Research | 1996 | 51 | |
| Reark Research | 1997 | 36 | 19 days |
| Right Marketing | 1998 | 45 | 25 days |
| Research Division | 1999 | 34 | 18 days |
| Research Division | 2000 | 35 | 19 days |
| Research Division | 2001 | 37 | 16 days |
| Research Division | 2002 | 34 | 18 days |
| Research Division | 2003 | 35 | 16 days |
| Research Division | 2004 | 31 | 13 days |
| Asset Research | 2005 | 31 | 6 days |
| Asset Research | 2006 | 46 | 18 days |

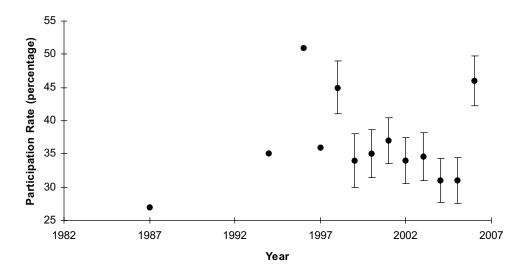


Figure 1 Participation rate for recreational fishing.

Days Fished

The number of days fished by recreational fishers in the last twelve months ranges from one to 365 days. The mean number of days fishing was 18 days and the median ten days. The majority of people in Western Australia fished between one and ten days. However, some fished for considerably more days giving a skewed frequency distribution (Figure 2). The results are often biased due to the inability of respondents to accurately recall past fishing trips over a 12-month period.

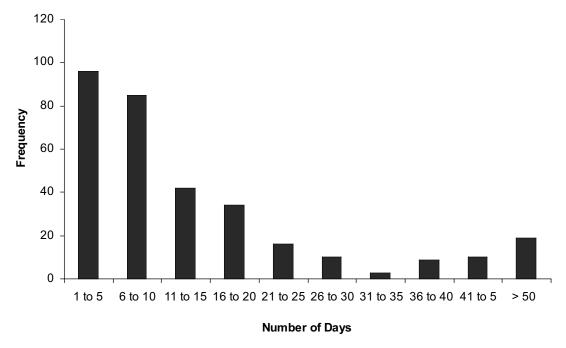


Figure 2 Frequency distribution of number of days fished.

The median number of days fished appears higher than in previous years (Figure 3) however the trend will become apparent in future years when more data is available.

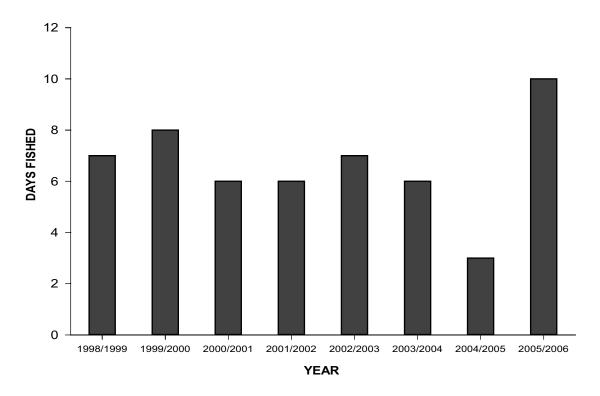


Figure 3 Median number of days fished.

3.2 Satisfaction Index

An overall satisfaction-scoring index has been developed to measure and monitor the satisfaction of recreational fishers in Western Australia.

The satisfaction rate is a combination of *Knowledge*, *Management*, and *Confidence*.

Knowledge = the level of the person's awareness of biology and behaviour of fish and the best way to catch fish.

Management = the level of the person's awareness of rules and regulations.

Confidence = the level of the person's satisfaction with the number, size and variety of fish caught on their last trip and satisfaction with the overall fishing trip.

Satisfaction Index = Mean (*Knowledge* + *Management* + *Confidence*)

$$= (q9 + q10 (a to c) + q11 (a to e)) / 9$$

$$= (0.961 + 0.719 + 0.750 + 0.784 + 0.574 + 0.619 + 0.647 + 0.951 + 0.929)/9$$

= 0.770

=77.0%

(Note: can't say/neither responses were excluded from the calculation of the satisfaction index)

Table 2 Satisfaction Index.

| | Number of Respondents | Satisfaction % | |
|----------------------------------|-----------------------|-------------------|---------------|
| Knowledge | | , | |
| Habitat and behaviour | 320 | 0.719 | Knowledgeable |
| Ways to catch fish | 324 | 0.750 | Knowledgeable |
| Management | | | |
| Bag & size limits | 324 | 0.784 | Knowledgeable |
| Awareness of rules & regulations | 698 | 0.961 | Knowledgeable |
| Confidence | | | |
| Number of fish caught | 326 | 0.574 | Satisfied |
| Variety of fish caught | 323 | 0.619 | Satisfied |
| Size of fish caught | 323 | 0.647 | Satisfied |
| Environment where fishing | 327 | 0.951 | Satisfied |
| Overall fishing trip | 325 | 0.929 | Satisfied |
| Satisfaction Index | | 0.770 | |

The satisfaction index for recreational fishing was 77.0% (Table 2) with a 95% confidence interval between 75.6% and 78.5%. The satisfaction index is not significantly different to the value of 74.6% reported by the 2005 Community Survey (Baharthah, 2005).

3.3 Satisfaction Rate

The satisfaction rating of the broader community is their perceptions of the extent to which the Department of Fisheries is achieving sustainable fisheries management objectives.

Satisfaction Rate = Mean (Managing commercial fishing

- + Managing recreational fishing
- + Protection of fish habitat
- + Managing aquaculture and pearling
- + Fair allocation of resources between groups)

$$= (q4b + q5b + q6b + q7b + q8) / 5$$

$$= (0.646 + 0.638 + 0.653 + 0.706 + 0.591) / 5$$

= 0.647

= 64.7%

(Note: can't say/neither responses were excluded from the calculation of the satisfaction rate)

The following results are from the 49% of respondents who knew the Department of Fisheries was responsible for one or more of the four sub-programs.

Table 3Satisfaction Rate.

| | Number of respondents | Satisfaction % |
|--|-----------------------|-------------------|
| Commercial Fisheries | 263 | 0.646 |
| Recreational Fishing | 293 | 0.638 |
| Fish Habitat Protection | 219 | 0.653 |
| Aquaculture & Pearling | 177 | 0.706 |
| Allocation of Resources | 276 | 0.591 |
| Overall Satisfaction Rate | | 0.647 |
| Satisfaction Rate across fou service areas | ır | 0.661 |

The Department of Fisheries was given an overall satisfaction rate of 64.7% by the Western Australian public (Table 3). The 95% confidence interval for the satisfaction rate is between 62.0% and 67.4%.

The Department of Fisheries was given a satisfaction rate of 66.1% across its four service areas of commercial fishing, recreational fishing, fish and fish habitat protection, and aquaculture and pearling. The confidence interval is between 63.0% and 69.1%.

The satisfaction rate is significantly lower than the value of 83.7 percent for 2004/2005 (Baharthah, 2005) mainly due to a significant increase in "poor" responses in all sectors. This is also lower than the 2005/2006 estimated target Figure of 95.5 percent. The low response rate for this year's survey may have resulted in biased estimates for participation and satisfaction. The survey response rate for 2005/06 was 28 percent, significantly lower than for previous years surveys (41 percent completed interviews 2004/05). Non-response bias occurs where people that respond to the survey have different opinions and activities to those that do not respond. Consequently the opinions of the 72% of people that refused to participate in this year's survey are not determined. The trend in satisfaction will become apparent in future years. The relevance of this indicator for external reporting purposes is currently being reviewed.

Overall, in terms of recreational fishing, commercial fishing, aquaculture and fish habitat protection, 66.1% of the community rated the Department of Fisheries' performance as good.

3.4 General fishing background

Question 1

In question 1, respondents were asked, "Thinking back over the last twelve months, have you done any recreational fishing, including angling, crabbing, prawning, spearfishing, collecting abalone or aquarium fish?"

Male respondents in regional areas were most likely to participate in recreational fishing during the last twelve months (Table 4).

Table 4 Participation in recreational fishing.

| | Male | Female |
|-------------------------|-------|--------|
| Perth metropolitan area | 0.555 | 0.308 |
| Regional areas | 0.671 | 0.374 |

3.5 Fishing involvement during the last twelve months

Question 2

In question 2, respondents were asked: "In the last 12 months, in what areas have you been fishing? How many days did you go fishing?"

Around 68% of fishers went fishing in the West Coast bioregion, which includes the Perth metropolitan area (Table 5).

Table 5 Fishing effort in Bioregions.

| Bioregion | Mean Days Fished | % Participating | % Effort |
|----------------------------------|---------------------|-----------------|----------|
| South Coast – Marine | 13 | 20 | 15 |
| Southern Inland - Freshwater | 10 | 4 | 2 |
| West Coast (inc. PMA) | 16 | 68 | 63 |
| Gascoyne | 16 | 12 | 11 |
| Pilbara / Kimberley – Marine | 18 | 6 | 7 |
| Pilbara / Kimberley – Freshwater | 8 | 3 | 1 |
| Total | | | 100 |

The Perth Metropolitan area attracted 43% of fishers (Table 6).

Table 6 Fishing effort in West Coast.

| Area | Mean Days Fished | % Participating | % Effort |
|------------------------------------|---------------------|-----------------|----------|
| Perth Metropolitan Area (PMA) only | 16 | 40 | 39 |
| West Coast other than PMA only | 14 | 25 | 21 |
| Both PMA and West Coast | 23 | 3 | 3 |
| Total | | | 63 |

It is likely that the mean number of days fished has been overstated due to the inability of respondents to accurately recall past fishing trips over a 12-month period.

The fishing effort in days will also be overstated since it is calculated from the mean number of days fished. The percentage effort column provides a more meaningful breakdown of recreational fishing effort by bioregion.

All Areas of the State

The number of days fished by recreational fishers in the last twelve months ranges from one to 365 days. The mean number of days fished was 18 days and the median was ten days. Around 29.6% of fishers went fishing between one and five days and 26.2% fished between six and ten days. However, some fished for considerably more days giving a skewed distribution.

3.6 Viewing fish and the marine environment

Question 3

In question 3, respondents were asked: "Also, thinking back over the last twelve months, have you gone snorkelling or diving just to look at fish and the marine environment rather than to capture fish or other animals?"

Around 19% of respondents went snorkelling or diving just to view fish and the marine environment (Table 7).

 Table 7
 Viewing fish and the marine environment.

| | Count | % |
|-----------|-------|-------|
| Yes | 134 | 19.2 |
| No | 556 | 79.8 |
| Can't Say | 7 | 1.0 |
| Total | 697 | 100.0 |

3.7 Awareness and impression of the Department of Fisheries

Question 4a

In question 4a, respondents were asked: "Who, if anyone, do you think is responsible for managing commercial fishing in Western Australia?"

The Department of Fisheries was recognised by 49.2% as responsible for managing commercial fishing in Western Australia and 24.0% of respondents thought that the state government was responsible (Table 8).

Multiple responses were accepted.

Table 8 Organisations responsible for commercial fishing.

| | Count | % |
|---------------------------|-------|------|
| Department of Fisheries | 344 | 49.2 |
| State Government | 168 | 24.0 |
| Don't Know | 151 | 21.6 |
| Other | 35 | 5.0 |
| Local council/shire | 12 | 1.7 |
| CALM | 5 | 0.7 |
| Department of Agriculture | 3 | 0.4 |
| Marine & Harbours | 2 | 0.3 |

There has been a decrease in the percentage of respondents that did not know who was responsible and a decrease in those who thought CALM was responsible for the management of commercial fisheries over the past year (Figure 4).

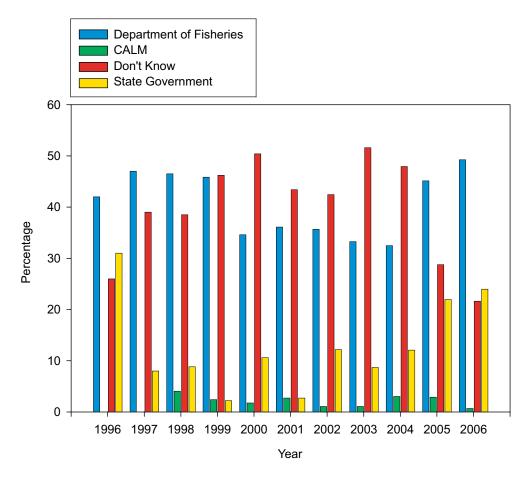


Figure 4 Organisations responsible for commercial fishing.

Question 4b

"There are a number of rules and regulations in place, which limits catch size, allowable fishing days and designated areas to fish."

In question 4b, respondents were asked: "How would you rate the Department of Fisheries in their management of commercial fisheries?"

Of the respondents that knew that the Department of Fisheries was responsible for the management of commercial fisheries, 49.7% gave a good or very good rating (Table 9).

 Table 9
 Management of commercial fisheries.

| | Count | % |
|-----------|-------|-------|
| Very Good | 9 | 2.6 |
| Good | 161 | 47.1 |
| Poor | 74 | 21.6 |
| Very Poor | 19 | 5.6 |
| Neither | 3 | 0.9 |
| Can't Say | 76 | 22.2 |
| Total | 342 | 100.0 |

Over the last year, there was a significant increase (p < 0.05) in the proportion of poor responses in the rating of the management of commercial fisheries (Figure 5).

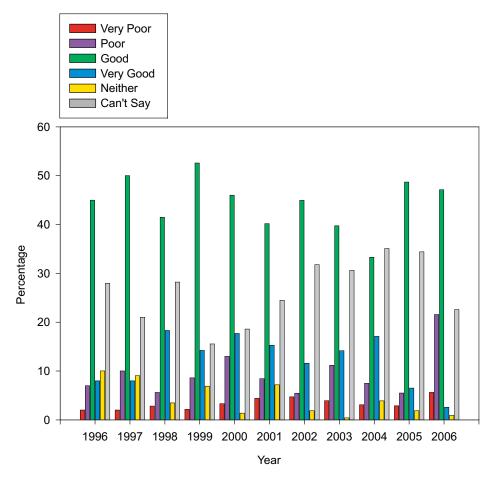


Figure 5 Management of commercial fisheries.

Question 5a

In question 5a, respondents were asked: "Who, if anyone, is responsible for managing recreational fishing in Western Australia?"

The Department of Fisheries was recognised by 50.9% of respondents as responsible for managing recreational fishing in Western Australia and 21.2% of respondents thought that the state government was responsible (Table 10).

Multiple responses were accepted.

 Table 10
 Organisations responsible for recreational fishing.

| | Count | % |
|----------------------------|-------|------|
| Department of Fisheries | 356 | 50.9 |
| State Government | 148 | 21.2 |
| Don't Know | 144 | 20.6 |
| Other | 26 | 3.7 |
| Local council/shire | 17 | 2.4 |
| Recfishwest | 11 | 1.6 |
| CALM | 8 | 1.1 |
| Department of Agriculture | 3 | 0.4 |
| Marine & Harbours | 1 | 0.1 |
| Waters & Rivers Commission | 1 | 0.1 |

There has been a significant decrease (p < 0.05) in the percentage of persons that did not know who was responsible and a significant increase (p < 0.05) in the percentage that said the Department of Fisheries was responsible for managing recreational fishing (Figure 6).

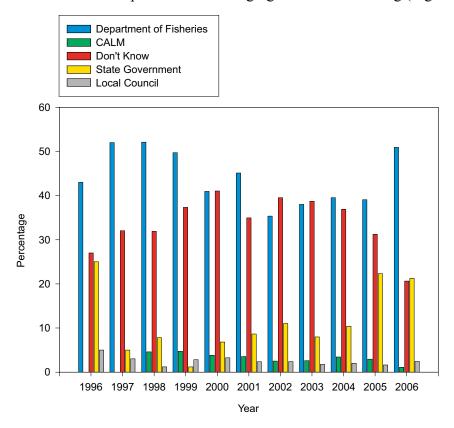


Figure 6 Organisations responsible for recreational fishing.

Question 5b

In question 5b, respondents were asked: "How would you rate the Department of Fisheries in their management of recreational fisheries?"

Of the respondents that knew that the Department of Fisheries was responsible for recreational fishing, 52.8% gave a good or very good rating (Table 11). Around 30.0% of respondents had a poor or very poor opinion of the Department of Fisheries performance.

Table 11 Management of recreational fishing.

| | Count | % |
|-----------|-------|-------|
| Very Good | 20 | 5.6 |
| Good | 167 | 47.2 |
| Poor | 86 | 24.3 |
| Very Poor | 20 | 5.7 |
| Neither | 4 | 1.1 |
| Can't Say | 57 | 16.1 |
| Total | 354 | 100.0 |

Over the last year there has been a significant increase (p < 0.05) in the percentage of respondents that gave the Department of Fisheries a poor rating and a decrease in the percentage that could not give an opinion (Figure 7).

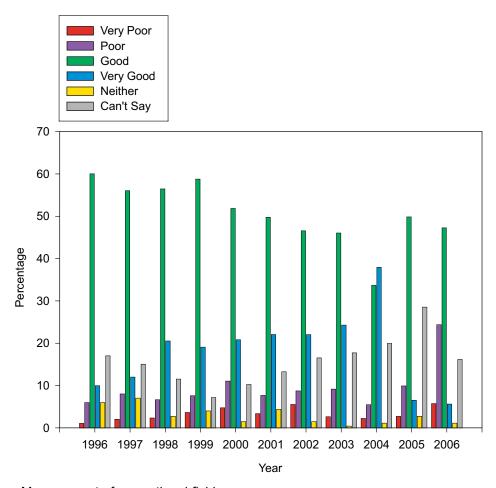


Figure 7 Management of recreational fishing.

Question 6a

In question 6a, respondents were asked: "When you think about the fish habitat in oceans and waterways in Western Australia, that is, where fish live and breed, who do you think, if anyone, is responsible for protecting the fish habitat?"

The Department of Fisheries was recognised by 38.5% of respondents as responsible for protecting the fish habitat (Table 12). A large number of respondents (20.6%) thought that the state government who was responsible.

Multiple responses were accepted.

 Table 12
 Organisations responsible for fish habitat protection.

| | Count | % |
|----------------------------|-------|------|
| Department of Fisheries | 269 | 38.5 |
| State Government | 144 | 20.6 |
| CALM | 137 | 19.6 |
| Don't Know | 121 | 17.3 |
| General Public | 79 | 11.3 |
| Other | 40 | 5.7 |
| Local council/shire | 7 | 1.0 |
| Department of Agriculture | 2 | 0.3 |
| Waters & Rivers Commission | 1 | 0.1 |

Over the last year there has been a significant change (p < 0.05) in the responses about who is responsible for protecting fish habitat protection. The percentage of respondents who recognised the Department of Fisheries increased, other responses and don't know responses decreased (Figure 8).

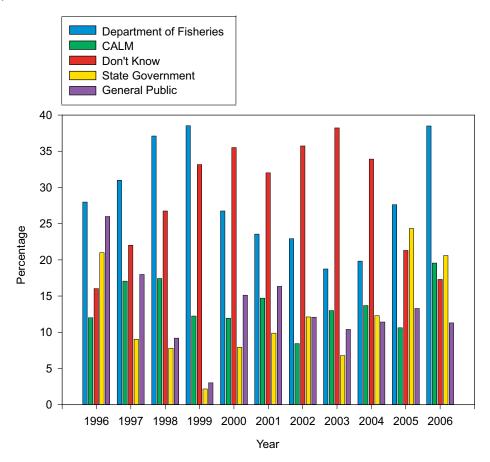


Figure 8 Organisations responsible for fish habitat protection.

Question 6b

In question 6b, respondents were asked: "How would you rate the Department of Fisheries in their conservation and protection of the fish habitat?"

Of the respondents that knew that the Department of Fisheries was responsible for conservation and protection of fish habitat, 53.6% gave a good or very good rating (Table 13). A smaller number of respondents (28.5%) had a poor or very poor opinion of the Department of Fisheries' performance.

 Table 13
 Conservation and protection of fish habitat.

| | Count | % |
|-----------|-------|-------|
| Very Good | 16 | 6.0 |
| Good | 127 | 47.6 |
| Poor | 60 | 22.5 |
| Very Poor | 16 | 6.0 |
| Neither | 1 | 0.3 |
| Can't Say | 47 | 17.6 |
| Total | 267 | 100.0 |

There has been a significant change (p < 0.05) in the rating of the conservation and protection of fish habitat by Department of Fisheries over the past year (Figure 9). Poor responses have increased and neither responses have decreased.

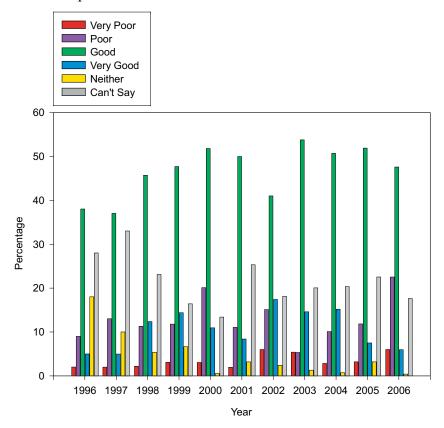


Figure 9 Conservation and protection of fish habitat.

Question 7a

In question 7a, respondents were asked: "When you think about aquaculture, pearling, or fish farming in Western Australia, who do you think, if anyone, is responsible for managing aquaculture?"

A high proportion of respondents (35.2%) recognised that the Department of Fisheries was responsible for the management of aquaculture and pearling (Table 14). A high proportion of respondents (28.6%) did not know who was responsible.

Multiple responses were accepted.

 Table 14
 Organisations responsible for managing aquaculture.

| | Count | % |
|----------------------------|-------|------|
| Department of Fisheries | 246 | 35.2 |
| Don't Know | 200 | 28.6 |
| State Government | 173 | 24.7 |
| Private Industry | 59 | 8.4 |
| CALM | 18 | 2.6 |
| Department of Agriculture | 15 | 2.1 |
| Other | 14 | 2.0 |
| Local council/shire | 3 | 0.4 |
| Waters & Rivers Commission | 3 | 0.4 |

Over the last year there has been a significant change (p < 0.05) in the responses about who is responsible for managing aquaculture and pearling. The percentage of other responses decreased and the percentage of Department of Fisheries responses increased (Figure 10).

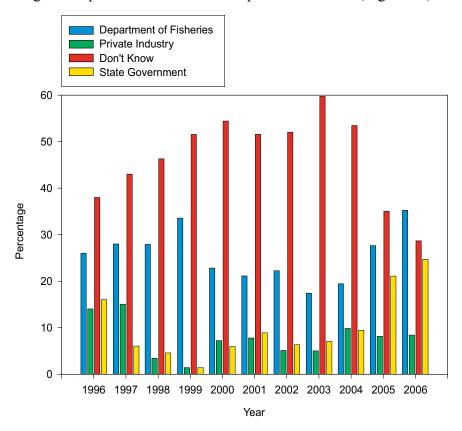


Figure 10 Organisations responsible for managing aquaculture.

Question 7b

"The Department of Fisheries provides information such as advising on technology, identifying suitable sites and conducting and supporting research."

In question 7b, respondents were asked: "How would you rate the Department of Fisheries in their management and development of aquaculture and pearling?"

Of the respondents that knew that the Department of Fisheries was responsible for the management of aquaculture, 51.2% felt that the Department of Fisheries was doing a good or very good job (Table 15). A smaller percentage (21.4%) had a poor or very poor opinion of the Department of Fisheries' performance.

 Table 15
 Management and development of aquaculture.

| | Count | % |
|------------|-------|-------|
| Very Good | 12 | 4.9 |
| Good | 113 | 46.3 |
| Poor | 46 | 18.9 |
| Very Poor | 6 | 2.5 |
| Neither | 2 | 8.0 |
| Don't Know | 65 | 26.6 |
| Total | 244 | 100.0 |

There has been a significant change (p < 0.05) in the rating of the management and development of aquaculture and pearling by Department of Fisheries over the past year (Figure 11). There has been a significant increase in poor responses and a significant decrease in can't say responses.

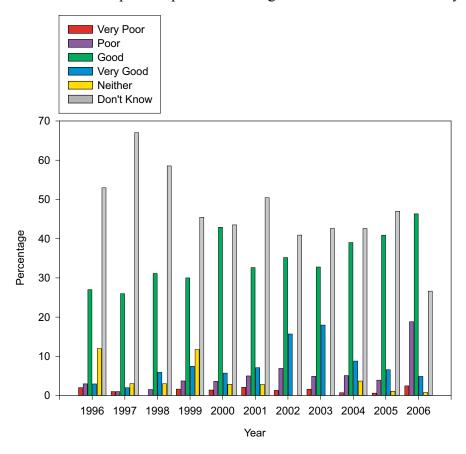


Figure 11 Management and development of aquaculture.

3.8 Allocation of fish resources among the fishing sectors

Question 8

"The Department of Fisheries is responsible for recreational fishing, commercial fishing, aquaculture and protecting the fish habitat."

In question 8, respondents were asked: "In your opinion, do you think the Department of Fisheries manages the share of fish resources fairly between these sectors?"

A high proportion of respondents (44.8%) thought that the Department of Fisheries allocates resources fairly between its sectors (Table 16). A large number of respondents (31.0%) felt that there was not a fair allocation of fish resources.

Table 16 Opinion on allocation of resources.

| | Count | % |
|-----------|-------|-------|
| Yes | 163 | 44.8 |
| No | 113 | 31.0 |
| Can't Say | 88 | 24.2 |
| Total | 364 | 100.0 |

Over the last year there has been a significant increase (p < 0.05) in the proportion of respondents who thought that the Department of Fisheries does not allocate resources fairly between sectors (Figure 12).

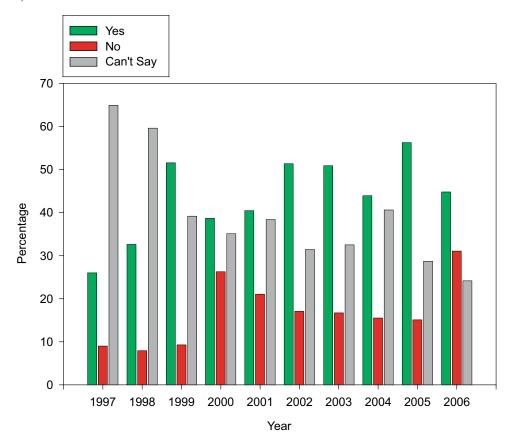


Figure 12 Opinion on allocation of resources.

3.9 Awareness and opinion of fishing regulations

Question 9

In question 9, respondents were asked: "Before today, were you aware that there are recreational fishing rules that apply when fishing in Western Australian waters?"

The majority of respondents (96.1%) were aware that there are recreational fishing rules that apply when fishing in Western Australia (Table 17).

 Table 17
 Knowledge of recreational fishing rules.

| | Count | % |
|-------|-------|-------|
| Yes | 671 | 96.1 |
| No | 27 | 3.9 |
| Total | 698 | 100.0 |

There has been a significant decrease (p < 0.05) in the proportion of respondents that were not aware that recreational fishing rules apply in Western Australia (Figure 13).

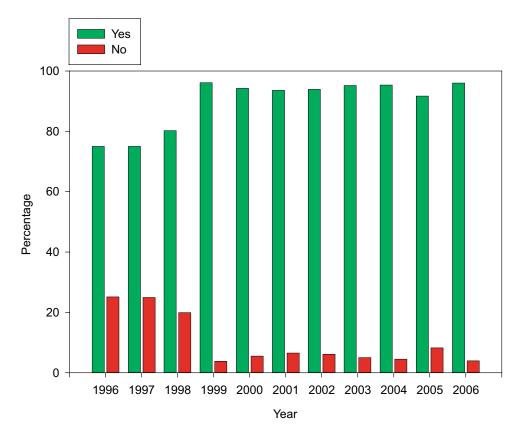


Figure 13 Knowledge of recreational fishing rules.

3.10 Knowledge of recreational fishing regulations

Question 10a

In question 10a, respondents were asked: "Thinking back to the last time you went fishing, how knowledgeable were you of the bag and size limits of fish you were planning to catch?"

Most fishers responded that they were fairly knowledgeable or very knowledgeable (77.7%) about the bag and size limits of the fish they were planning to catch (Table 18).

Table 18 Knowledge of bag and size limits.

| | Count | % |
|---------------------------|-------|-------|
| Very Knowledgeable | 134 | 41.0 |
| Fairly Knowledgeable | 120 | 36.7 |
| Not Very Knowledgeable | 70 | 21.4 |
| Can't Say | 3 | 0.9 |
| Total | 327 | 100.0 |

Over the past year, there was no significant change in the knowledge of fishers regarding the bag and size limits of the fish they were planning to catch (Figure 14).

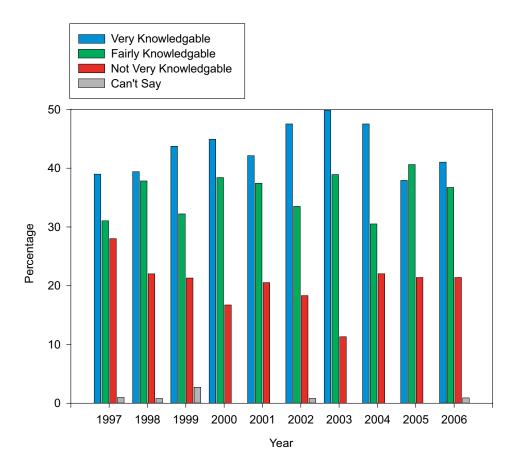


Figure 14 Knowledge of bag and size limits.

Question 10b

In question 10b, respondents were asked: "How knowledgeable were you on the best ways to catch the fish you were after (e.g. method, bait, hooks)?"

Most fishers responded that they were very knowledgeable (34.9%) or fairly knowledgeable (39.4%) about the best ways to catch the fish they were after (Table 19).

Table 19 Knowledge of best ways to catch fish.

| | Count | % |
|------------------------|-------|-------|
| Very Knowledgeable | 114 | 34.9 |
| Fairly Knowledgeable | 129 | 39.4 |
| Not Very Knowledgeable | 81 | 24.8 |
| Can't Say | 3 | 0.9 |
| Total | 327 | 100.0 |

Over the past year, there was no significant change in the knowledge of fishers regarding the best ways to catch fish (Figure 15).

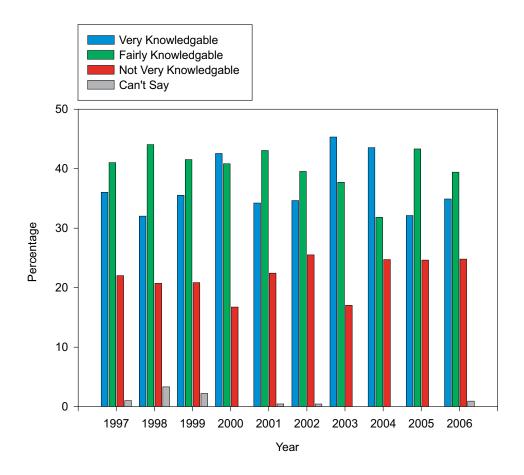


Figure 15 Knowledge of best ways to catch fish.

Question 10c

In question 10c, respondents were asked: "How knowledgeable were you on the habits of the fish you were after (e.g. where found, when feeding)?"

A high proportion of fishers responded that they were fairly knowledgeable (39.8%) about the habits of the fish they were after (Table 20).

Table 20 Knowledge of habits and behaviour of fish.

| | Count | % |
|------------------------|-------|-------|
| Very Knowledgeable | 100 | 30.6 |
| Fairly Knowledgeable | 130 | 39.8 |
| Not Very Knowledgeable | 90 | 27.5 |
| Can't Say | 7 | 2.1 |
| Total | 327 | 100.0 |

Over the past year, there was no significant change in the knowledge of fishers regarding the habits and behaviour of the fish they were after (Figure 16).

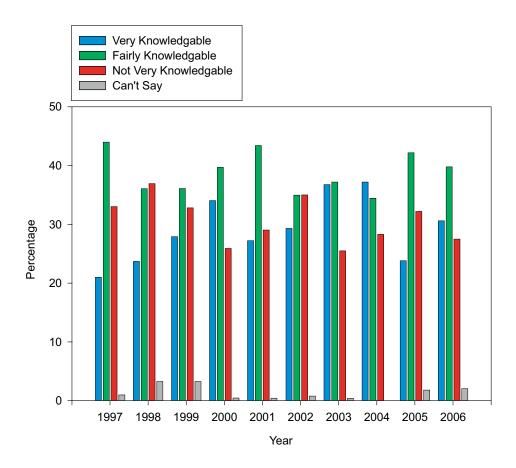


Figure 16 Knowledge of habits and behaviour of fish.

3.11 Satisfaction with most recent fishing trip

Question 11a

In question 11a, respondents were asked: "Thinking back to the last time you went fishing, how satisfied were you with the number of fish you caught?"

A high proportion of respondents (57.2%) were satisfied or very satisfied with the number of fish caught in their last fishing trip (Table 21).

Table 21 Satisfaction with the number of fish caught.

| | Count | % |
|-------------------|-------|-------|
| Very Satisfied | 66 | 20.2 |
| Satisfied | 121 | 37.0 |
| Dissatisfied | 115 | 35.2 |
| Very Dissatisfied | 24 | 7.3 |
| Neither | 1 | 0.3 |
| Total | 327 | 100.0 |

Over the past year there has been a significant change (p < 0.05) in the responses with regard to the number of fish caught (Figure 17). The proportion of very dissatisfied responses decreased and the proportion of dissatisfied responses increased.

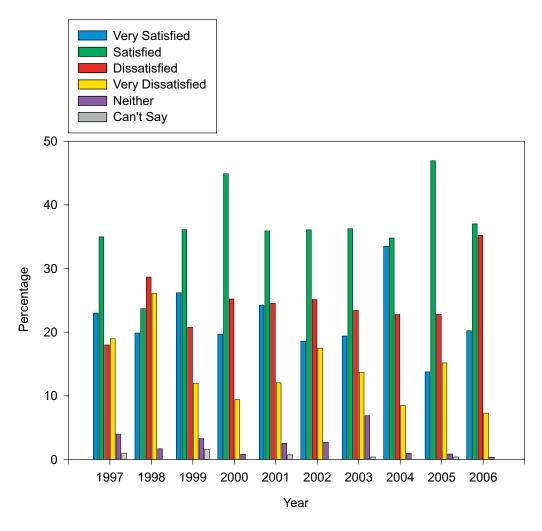


Figure 17 Satisfaction with the number of fish caught.

Question 11b

In question 11b, respondents were asked: "How satisfied were you with the variety of fish caught?"

Most fishers (61.3%) were satisfied or very satisfied with the variety of fish caught (Table 22).

 Table 22
 Satisfaction with the variety of fish caught.

| | Count | % |
|-------------------|-------|-------|
| Very Satisfied | 49 | 15.0 |
| Satisfied | 151 | 46.3 |
| Dissatisfied | 99 | 30.4 |
| Very Dissatisfied | 24 | 7.4 |
| Can't Say | 3 | 0.9 |
| Total | 326 | 100.0 |

Over the past year, there was no significant change in the satisfaction of fishers regarding the variety of the fish caught (Figure 18).

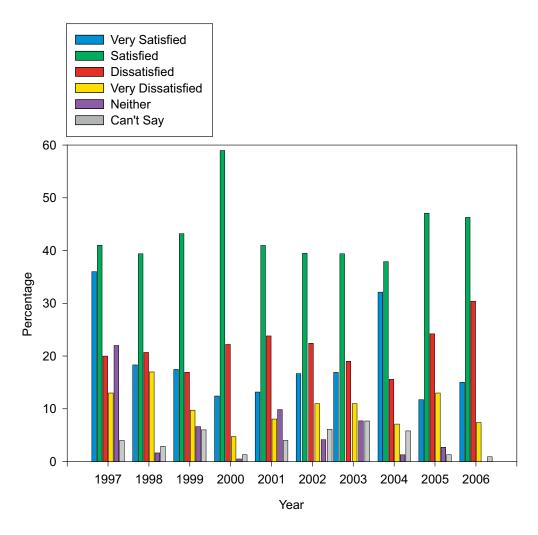


Figure 18 Satisfaction with the variety of fish caught.

Question 11c

In question 11c, respondents were asked: "How satisfied were you with the size of the fish caught?"

Most fishers (64.2%) were satisfied or very satisfied with the size of fish caught (Table 23).

Table 23 Satisfaction with the size of fish caught.

| | Count | % |
|-------------------|-------|-------|
| Very Satisfied | 57 | 17.5 |
| Satisfied | 152 | 46.7 |
| Dissatisfied | 95 | 29.1 |
| Very Dissatisfied | 19 | 5.8 |
| Neither | 1 | 0.3 |
| Can't Say | 2 | 0.6 |
| Total | 326 | 100.0 |

Over the past year there has been a significant decrease (p < 0.05) in the proportion of respondents that were very dissatisfied with the size of fish caught (Figure 19).

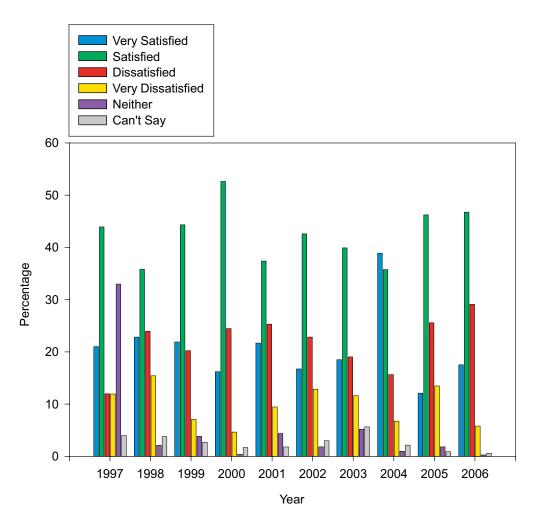


Figure 19 Satisfaction with the size of fish caught.

Question 11d

In question 11d, respondents were asked: "How satisfied were you with the environment where you were fishing?"

Most fishers (46.8%) were very satisfied with the environment where they were fishing (Table 24).

 Table 24
 Satisfaction with the environment where fishing.

| | Count | % |
|-------------------|-------|-------|
| Very Satisfied | 153 | 46.8 |
| Satisfied | 158 | 48.3 |
| Dissatisfied | 10 | 3.1 |
| Very Dissatisfied | 6 | 1.8 |
| Total | 327 | 100.0 |

Over the past year, there was no significant change (p > 0.05) in the satisfaction with the fishing environment (Figure 20).

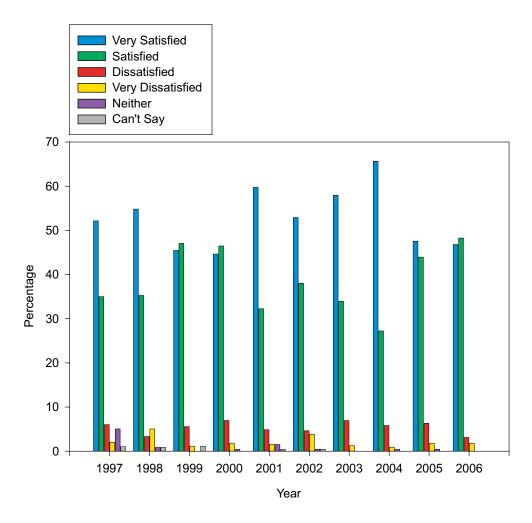


Figure 20 Satisfaction with the environment where fishing.

Question 11e

In question 11e, respondents were asked: "Thinking of the trip overall, how satisfied were you with that fishing trip?"

Most fishers (55.2%) were satisfied with the overall fishing trip (Table 25).

 Table 25
 Satisfaction with the overall trip.

| | Count | % |
|-------------------|-------|-------|
| Very Satisfied | 122 | 37.4 |
| Satisfied | 180 | 55.2 |
| Dissatisfied | 20 | 6.2 |
| Very Dissatisfied | 3 | 0.9 |
| Neither | 1 | 0.3 |
| Total | 326 | 100.0 |

Over the last year there has been a significant decrease (p < 0.05) in the proportion of fishers that were very dissatisfied with their overall fishing trip (Figure 21).

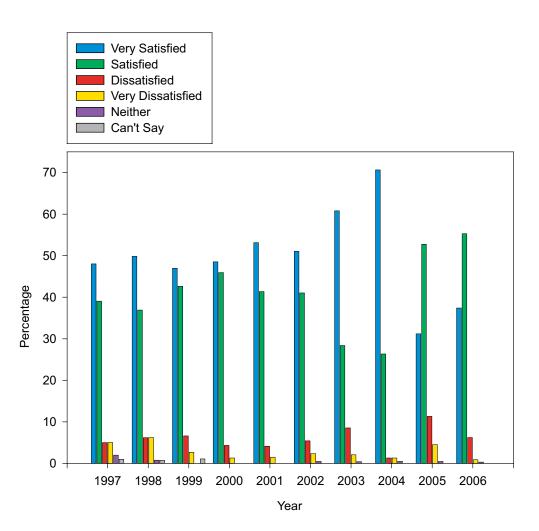


Figure 21 Satisfaction with the overall trip.

3.12 Information about recreational fishing

Question 12a

In question 12a, respondents were asked: "Thinking about fishing regulations and other information to do with recreational fishing in W.A.... where do you find out about things to do with fishing?"

Around 30.0% of fishers used Department of Fisheries brochures and publications to find out about fishing regulations and other information to do with recreational fishing in Western Australia (Table 26).

Multiple responses were accepted.

 Table 26
 Information about fishing.

| | Count | % |
|---|-------|------|
| Department of Fisheries brochures / publications | 98 | 30.1 |
| Other fishers | 92 | 28.2 |
| Newspapers | 61 | 18.7 |
| Tackle shops | 55 | 16.9 |
| Department of Fisheries internet web site | 54 | 16.6 |
| Other | 38 | 11.7 |
| None | 36 | 11.0 |
| Clubs / associations | 28 | 8.6 |
| Other fishing web sites | 23 | 7.1 |
| Fishing magazines | 16 | 4.9 |
| Television | 16 | 4.9 |
| Radio | 4 | 1.2 |
| Department of Fisheries shows / displays | 2 | 0.6 |
| Department of Fisheries Officers / Researchers / Volunteer Fisheries Liaison Officers | 2 | 0.6 |

Some detail was collected about the ways fishers gain their information. Unfortunately, this information was very sparse.

Some fishers used the Western Angler magazine, the West Australian, Sunday Times and local newspapers and radio, and Rex Hunt to gain information about recreational fishing.

Question 12b

In question 12b, respondents were asked: "Which of these is the main way you find out about these things?

Asking other fishers was the main way that a large number of respondents (20.1%) found out about fishing regulations and other information to do with recreational fishing (Table 27).

 Table 27
 Main way information about fishing is found.

| | Count | % |
|--|-------|-------|
| Other fishers | 66 | 20.1 |
| Department of Fisheries brochures / publications | 53 | 16.1 |
| None | 36 | 11.0 |
| Newspapers | 34 | 10.4 |
| Tackle shops | 34 | 10.4 |
| Department of Fisheries web site | 31 | 9.5 |
| Other | 26 | 7.9 |
| Clubs / associations | 14 | 4.3 |
| Other fishing web sites | 14 | 4.3 |
| Fishing magazines | 8 | 2.4 |
| Television | 7 | 2.1 |
| Radio | 3 | 0.9 |
| Department of Fisheries shows / displays | 2 | 0.6 |
| Total | 328 | 100.0 |

3.13 Contact with the Department of Fisheries

Question 13a

In question 13a, respondents were asked: "During the past twelve months have you contacted the Department of Fisheries for any reason?"

Only 11.3% of respondents had contacted the Department of Fisheries in the past twelve months (Table 28).

 Table 28
 Contacted the Department of Fisheries.

| | Count | % |
|------------|-------|-------|
| Yes | 79 | 11.3 |
| No | 608 | 86.7 |
| Don't Know | 14 | 2.0 |
| Total | 701 | 100.0 |

Over the past year, there has been a slight increase in the percentage of respondents that had contacted the Department of Fisheries (Figure 22).

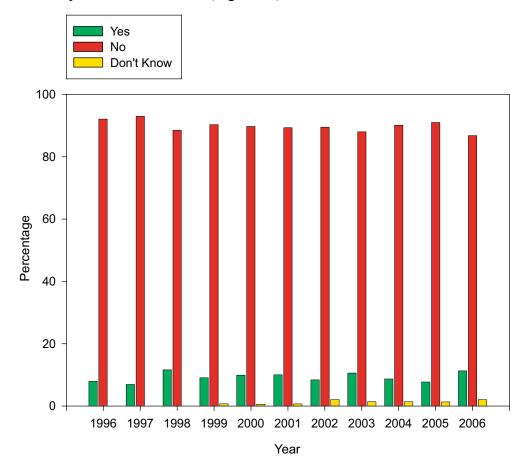


Figure 22 Contacted the Department of Fisheries.

Question 13b

In question 13b, respondents were asked: "How did you make contact with the Department of Fisheries?"

Of the 79 people that contacted the Department of Fisheries in the past twelve months most respondents (62.0%) contacted by telephone (Table 29).

Multiple responses were accepted.

 Table 29
 Ways contacted the Department of Fisheries.

| | Count | % |
|-----------|-------|------|
| Telephone | 49 | 62.0 |
| In person | 23 | 29.1 |
| Mail | 5 | 6.3 |
| Internet | 5 | 6.3 |
| Can't Say | 3 | 3.8 |
| Email | 2 | 2.5 |

There appears to have been a slight increase in the proportion of respondents who have contacted the department by telephone over the past year (Figure 23).

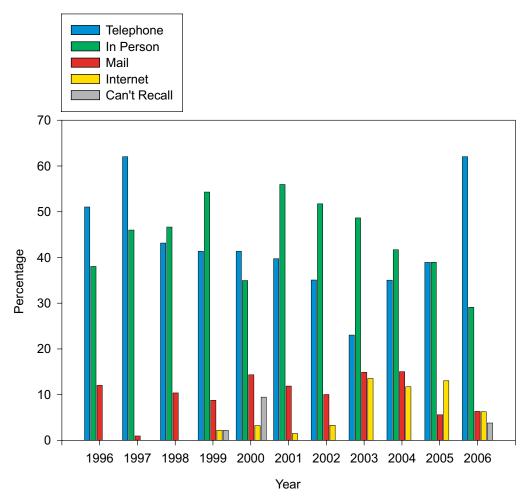


Figure 23 Ways contacted the Department of Fisheries.

Question 13c

In question 13c, respondents were asked: "Considering all aspects of your contact with the Department of Fisheries, overall, how satisfied were you with the level of service you received?"

The majority of respondents that had contacted the Department of Fisheries were satisfied (59.0%) with the level of service they received (Table 30).

Table 30 Satisfaction with level of service.

| | Count | % |
|-------------------|-------|-------|
| Very Satisfied | 19 | 24.3 |
| Satisfied | 46 | 59.0 |
| Dissatisfied | 7 | 9.0 |
| Very Dissatisfied | 5 | 6.4 |
| Not Relevant | 1 | 1.3 |
| Total | 78 | 100.0 |

Over the past year, there has been a slight increase in the proportion of respondents that were satisfied with the level of service they received (Figure 24).

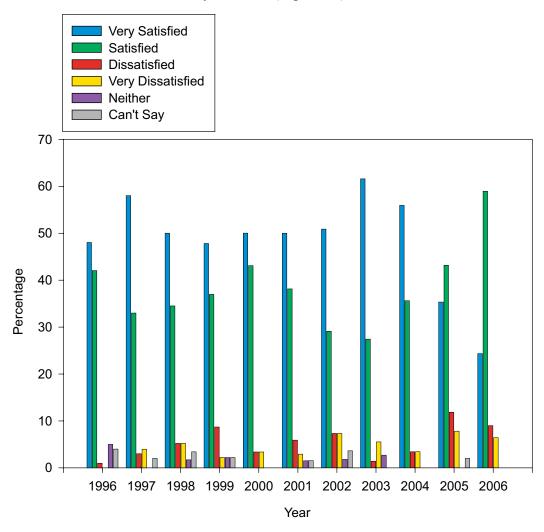


Figure 24 Satisfaction with level of service.

3.14 Awareness of representatives of the Department of Fisheries

Question 14

In question 14, respondents were asked: "In the last 12 months, have you been approached or contacted by someone from the Department of Fisheries, or representatives of the Department of Fisheries such as Volunteer Fisheries Liaison Officers (VFLO's)?"

The majority of respondents (84.7%) had not been approached or contacted by anyone from the Department of Fisheries (Table 31).

Multiple responses were accepted.

 Table 31
 Contacts from the Department of Fisheries.

| | Count | % |
|---------------------------|-------|------|
| No / Can't Say | 594 | 84.7 |
| Yes – Department officers | 72 | 10.3 |
| Yes – VFLO's | 29 | 4.1 |
| Yes – Researchers | 13 | 1.9 |
| Yes – Other | 3 | 0.4 |

Over the past year, there has been a significant (p < 0.05) increase in the proportion of respondents who have been contacted by Volunteer Fisheries Liaison Officers and Department Officers (Figure 25).

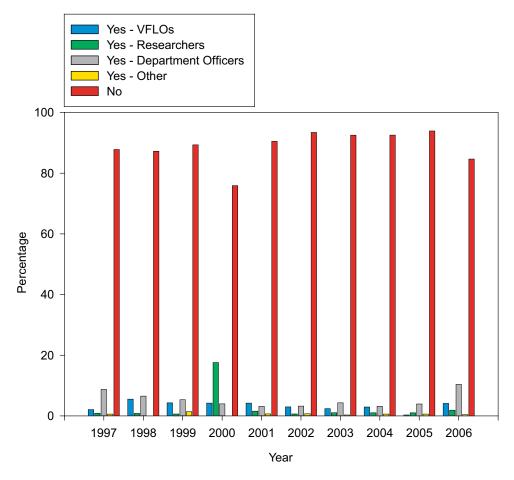


Figure 25 Contacts from the Department of Fisheries.

3.15 Recollection of the Department of Fisheries

Question 15

In question 15, respondents were asked: "Do you recall, over the last twelve months, seeing or hearing anything about the Department of Fisheries in the media?"

Most respondents recalled seeing or hearing of the Department of Fisheries in the media over the past twelve months, mainly from the television (46.1%), and newspapers and magazines (35.1%) (Table 32).

Multiple responses were accepted.

Table 32 Recollection of the Department of Fisheries in the media.

| | Count | % |
|----------------------------|-------|------|
| Yes – Television | 323 | 46.1 |
| Yes – Newspapers/Magazines | 246 | 35.1 |
| No | 186 | 26.5 |
| Yes – Radio | 113 | 16.1 |
| Yes – Unsure | 89 | 12.7 |
| Yes – Internet | 14 | 2.0 |

Over the past year, there has been a slight increase in the proportion of respondents that heard about the Department of Fisheries on the radio and television, and a slight increase in the proportion of respondents who were unsure where they heard about the Department of Fisheries in the media (Figure 26).

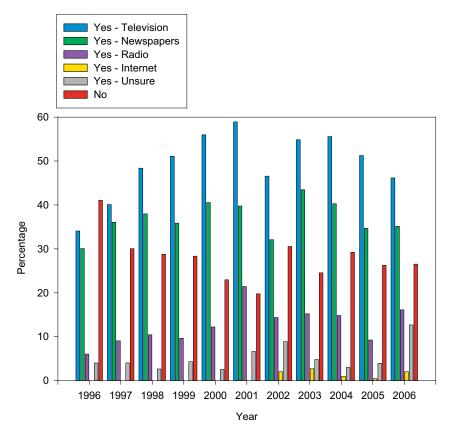


Figure 26 Recollection of the Department of Fisheries in the media.

3.16 Opinion on Aquaculture

Question 16a

In question 16a, respondents were asked: "Aquaculture is the farming of aquatic plants and animals. Do you feel that aquaculture is beneficial to the state?"

The majority of respondents felt that aquaculture was beneficial to the state (85.3%) (Table 33).

 Table 33
 Benefit of aquaculture to the state.

| | Count | % |
|-----------|-------|-------|
| Yes | 598 | 85.3 |
| No | 27 | 3.9 |
| Can't Say | 76 | 10.8 |
| Total | 701 | 100.0 |

Over the past year there has been no change in the proportion of respondents who consider aquaculture beneficial to the state (Figure 27).

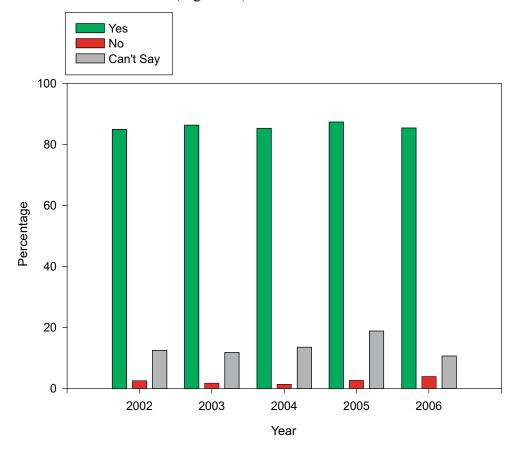


Figure 27 Benefit of aquaculture to the state.

Question 16b

In question 16b, respondents were asked: "What do you think is the main benefit?"

Of the respondents that felt aquaculture was beneficial to the state, the majority thought that the main benefit was that it relieves pressure on wild fish stocks (66.1%) (Table 34).

 Table 34
 Benefits of aquaculture.

| | Count | % |
|---|-------|-------|
| Relieves pressure on wild fish stocks | 394 | 66.1 |
| Provides regional employment and economic development | 78 | 13.1 |
| Provides fresh seafood | 76 | 12.7 |
| Provides consumers with greater range and availability of seafood | 32 | 5.4 |
| Can't Say | 15 | 2.5 |
| Other | 1 | 0.2 |
| Total | 596 | 100.0 |

Question 16c

In question 16c, respondents were asked: "Do you think that aquaculture has any negative impacts?"

The majority of respondents (53.5%) felt that aquaculture had no negative impacts (Table 35).

Table 35 Negative impact of aquaculture.

| | Count | % |
|-----------|-------|-------|
| Yes | 137 | 19.5 |
| No | 375 | 53.5 |
| Can't Say | 189 | 27.0 |
| Total | 701 | 100.0 |

Over the past five years, there has been little change in the proportion of respondents who thought that aquaculture had any negative impacts (Figure 28).

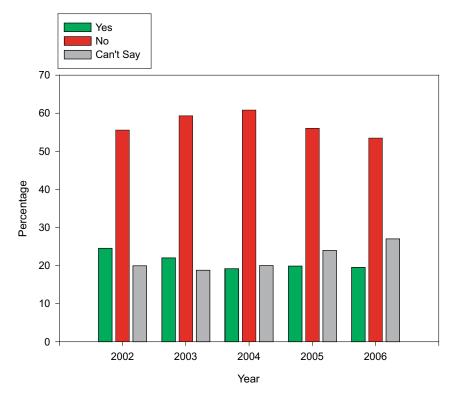


Figure 28 Negative impact of aquaculture.

Question 16d

In question 16d, respondents were asked: "What do you think is the main negative impact?"

Of the respondents that felt that aquaculture had negative impacts, a large proportion considered that pollution (53.3%) and the risk of disease (29.9%) were the main negative impacts of aquaculture (Table 36).

Table 36 Negative impacts of aquaculture.

| | Count | % |
|-----------------------|-------|-------|
| Pollution | 73 | 53.3 |
| Risk of disease | 41 | 29.9 |
| Competition for space | 9 | 6.6 |
| Economic viability | 7 | 5.1 |
| Other | 4 | 2.9 |
| Can't Say | 3 | 2.2 |
| Total | 137 | 100.0 |

3.17 Demographics

Question 17

In question 17 respondents were asked: "Firstly, into which of these age groups do you fall?"

The age structure of respondents was significantly different (p < 0.05) to the population age structure of Western Australia (Table 37), mostly due to a lower proportion of respondents aged between 25 and 34.

Table 37 Age categories.

| | Count | % |
|-----------------|-------|-------|
| 18 to 19 years | 31 | 4.4 |
| 20 to 24 years | 49 | 7.0 |
| 25 to 34 years | 87 | 12.4 |
| 35 to 44 years | 167 | 23.8 |
| 45 to 54 years | 146 | 20.8 |
| 55 to 64 years | 104 | 14.9 |
| 65 years & over | 107 | 15.3 |
| Unknown | 10 | 1.4 |
| Total | 701 | 100.0 |

Question 18

In question 18 respondents were asked: "Which of the following categories best describes what you currently do?"

A large number of respondents (45.6%) were employed in full-time work (Table 38). Some were retired or aged pensioners (20.6%) and others involved in part-time work (18.2%). The activity structure of respondents was significantly different (p < 0.05) to the population activity structure of Western Australia, possibly due to the low number of people doing home duties and looking for work and the high number of retired and aged pensioner respondents.

Table 38Activity structure.

| | Count | % |
|---|-------|-------|
| Full - time work in a job or business | 319 | 45.6 |
| Part - time or casual work in a job or business | 127 | 18.2 |
| Full - time student | 23 | 3.3 |
| Looking for work | 7 | 1.0 |
| Retired or aged pensioner | 144 | 20.6 |
| Other pensioner | 13 | 1.9 |
| Home duties | 66 | 9.4 |
| Total | 700 | 100.0 |

Question 19

In question 19 respondents were asked: "What kind of work do you do?"

There were 446 respondents employed in a full or part-time capacity. Of these, 21.7% were professionals and 14.5% were tradespersons (Table 39). There was no significant difference between the employment structure of respondents and the population employment structure of Western Australia.

Table 39 Type of work.

| | Count | % |
|--|-------|-------|
| Managers | 53 | 11.9 |
| Professionals | 97 | 21.7 |
| Technicians and associated professionals | 47 | 10.5 |
| Tradespersons | 65 | 14.5 |
| Production, plant and transport operators | 32 | 7.2 |
| Clerical, sales and service – advanced, intermediate | 69 | 15.5 |
| Clerical, sales and service – elementary | 28 | 6.3 |
| Labourers, process workers, cleaners etc | 52 | 11.7 |
| Unknown | 3 | 0.7 |
| Total | 446 | 100.0 |

Question 20

In question 20 respondents were asked: "What is the postcode of the suburb/town in which you live?"

Question 21

In question 21, the sex of the respondent was recorded.

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5.1 Appendix A: Survey Questionnaire Form

| A | appendix A: Survey Questionnaire Form | | |
|------|--|-------------|----------------|
| Depa | rtment of Fisheries Community Survey | | |
| | () my name is () from Asset Research. We are currch into coastal and marine areas in Western Australia. | rrently con | ducting |
| | please speak to the person in the household who is older than e birthday is closest to today's date. | 17 years o | of age and |
| Q1 | Thinking back over the last twelve months, have you done ar including angling, crabbing, prawning, spearfishing, collecting fish? [Other Recreational Fishing may include Marron, Nettin Lobsters] | abalone (| or aquarium |
| | YES | | |
| | NO $2 \longrightarrow Q3$ | | |
| | DON'T KNOW 9 —> Q3 | | |
| Q2 | In the last 12 months, in what areas have you been fishing? go fishing? | How many | y days did you |
| | South Coast – Marine (east of Augusta to the South Australian border) | 1 > | |
| | Southern Inland – Freshwater (Fishing for species such as marron and trout) | 2 > | |
| | Perth Metropolitan (Yanchep to Mandurah) | 3 ➤ | |
| | West Coast – Augusta to Kalbarri (other than Perth Metropolitan) | 4 > | |
| | Gascoyne (north of Kalbarri to south of Onslow) | 5 | |
| | Pilbara / Kimberley - Marine (Onslow to Broome) | 6 ➤ | |
| | Pilbara / Kimberley Inland – Freshwater | 7 > | |
| | CAN'T SAY | 9 | |
| Q3 | Also, thinking back over the last twelve months, have you go just to look at fish and the marine environment rather than to animals? YES NO DON'T KNOW 9 | | |
| Q4a | Who, if anyone, do you think is responsible for managing cor | mmercial | fishing in WA? |
| | DEPARTMENT OF FISHERIES | 1 | |
| | LOCAL COUNCIL/SHIRE | <u> </u> | |
| | STATE GOVERNMENT | 3 | |
| | DEPARTMENT OF AGRICULTURE | 4 | |
| | DEPARTMENT OF CONSERVATION & LAND MANAGEMENT (CALM) | 5 | |
| | DEPARTMENT FOR PLANNING & INFRASTRUCTURE | | Q5a |
| | DEPARTMENT OF WATER | 7 | |
| | DON'T KNOW | 9 | |
| | OTHER | _ | |

| Q4b | allowable fishing days and designated areas to fish. How would you rate Department of Fisheries in their management of commercial fisheries? Very poor 1 |
|-----|---|
| | Poor 2 |
| | Good 3 |
| | Very good 4 |
| | NEITHER 5 |
| | CAN'T SAY 9 |
| Q5a | Who, if anyone, is responsible for managing recreational fishing in WA? |
| | DEPARTMENT OF FISHERIES |
| | LOCAL COUNCIL/SHIRE |
| | STATE GOVERNMENT 3 |
| | DEPARTMENT OF AGRICULTURE 4 |
| | DEPARTMENT OF CONSERVATION & LAND MANAGEMENT (CALM) 5 Q6a |
| | DEPARTMENT FOR PLANNING & INFRASTRUCTURE |
| | DEPARTMENT OF WATER 7 |
| | DON'T KNOW |
| | OTHER |
| Q5b | Limits have been set on size, type of species that can be caught, as well as season limits etc. How would you rate Department of Fisheries in their management of recreational fisheries? |
| | Very poor 1 |
| | Poor 2 |
| | Good 3 |
| | Very good 4 |
| | NEITHER 5 |
| | CAN'T SAY 9 |
| Q6a | When you think about the fish habitat in oceans and waterways in WA, that is, where fish live and breed, who, if anyone, do you think is responsible for protecting the fish habitat ? |
| | DEPARTMENT OF FISHERIES 1 |
| | LOCAL COUNCIL/SHIRE |
| | STATE GOVERNMENT 3 |
| | DEPARTMENT OF AGRICULTURE |
| | DEPARTMENT OF CONSERVATION & LAND MANAGEMENT (CALM) 5 Q7a |
| | DEPARTMENT FOR PLANNING & INFRASTRUCTURE |
| | DEPARTMENT OF WATER |
| | DON'T KNOW |
| | OTHER J |

| | Very poor 1 | |
|-----------|--|---|
| | Poor 2 | |
| | Good 3 | |
| | Very good 4 | |
| | NEITHER 5 | |
| | CAN'T SAY 9 | |
| | J.1.1.5.11 | |
| Q7a | When you think about aquaculture, pearling, or fish farming in if anyone, is responsible for managing aquaculture ? | WA, who do you think, |
| | DEPARTMENT OF FISHERIES | 1 |
| | LOCAL COUNCIL/SHIRE | 2 |
| | STATE GOVERNMENT | 3 |
| | DEPARTMENT OF AGRICULTURE | 4 |
| | DEPARTMENT OF CONSERVATION & LAND MANAGEMENT (CALM) | 5 |
| | DEPARTMENT FOR PLANNING & INFRASTRUCTURE | 6 Q8 |
| | DEPARTMENT OF WATER | 7 |
| | DON'T KNOW | 9 |
| | |) |
| | OTHER | |
| Q7b | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaquaculture and pearling? Very poor 1 | rch. How would you |
| Q7b | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and decaquaculture and pearling? | rch. How would you |
| Q7b | The Department of Fisheries provides information such as advidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaquaculture and pearling? Very poor | rch. How would you |
| Q7b | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaquaculture and pearling? Very poor Poor 2 | rch. How would you |
| Q7b | The Department of Fisheries provides information such as advidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaquaculture and pearling? Very poor Poor Good 3 | rch. How would you |
| Q7b | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaquaculture and pearling? Very poor Poor Good Very good Very good Very good | rch. How would you |
| Q7b Q8 | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaquaculture and pearling? Very poor Poor Good NEITHER 5 | shing, commercial pinion, do you think the |
| | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaluaculture and pearling? Very poor Poor Poor CAN'T SAY The Department of Fisheries is responsible for recreational fisfishing, aquaculture and protecting the fish habitat. In your op Department of Fisheries manages the share of fish resources | shing, commercial pinion, do you think the |
| | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaquaculture and pearling? Very poor Poor Good Very good NEITHER The Department of Fisheries is responsible for recreational fishing, aquaculture and protecting the fish habitat. In your op Department of Fisheries manages the share of fish resource sectors? | shing, commercial pinion, do you think the |
| | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaquaculture and pearling? Very poor Poor Good NEITHER CAN'T SAY The Department of Fisheries is responsible for recreational fishing, aquaculture and protecting the fish habitat. In your op Department of Fisheries manages the share of fish resource sectors? YES The Department of Fisheries manages the share of fish resource sectors? | shing, commercial pinion, do you think the |
| | The Department of Fisheries provides information such as addidentifying suitable sites and conducting and supporting researate the Department of Fisheries in their management and devaluaculture and pearling? Very poor Poor Good NEITHER The Department of Fisheries is responsible for recreational fisfishing, aquaculture and protecting the fish habitat. In your op Department of Fisheries manages the share of fish resource sectors? YES NO The Department of Fisheries manages the share of fish resource sectors? | ching, commercial binion, do you think the ses fairly between these |

How would you rate the Department of Fisheries in their conservation and protection

Q6b

| on the following: | | | | | |
|-------------------|--|--------------------|--|--|--|
| Q10a | Firstly, the bag and size limits for the fish you were planning to catcl | 1? | | | |
| Q10b | The best ways to catch the fish you were after (eg: method, bait, hooks)? | | | | |
| Q10c | The habits of the fish you were after (eg: where found, when feeding)? | | | | |
| | Very knowledgeable 1 | | | | |
| | Fairly knowledgeable 2 | | | | |
| | Not very knowledgeable 3 | | | | |
| | CAN'T SAY 9 | | | | |
| Still thi | nking about the last time you went fishing. How satisfied were you w | ith the following: | | | |
| Q11a | The number of fish you caught? | | | | |
| Q11b | The variety of fish you caught? | | | | |
| Q11c | The size of the fish you caught? | | | | |
| Q11d | The environment where you were fishing? | | | | |
| Q11e | And thinking of the trip overall, how satisfied were you with that fishi Very Satisfied 1 | ng trip? | | | |
| | Satisfied 2 | | | | |
| | Dissatisfied 3 | | | | |
| | Very Dissatisfied 4 | | | | |
| | NEITHER 5 | | | | |
| | CAN'T SAY 9 | | | | |
| Q12a | Thinking about fishing regulations and other information to do with r in WA where do you find out about things to do with fishing? PRO ones? | - | | | |
| | DEPARTMENT OF FISHERIES BROCHURES /STICKERS / PUBLICATIONS | 1 | | | |
| | DEPARTMENT OF FISHERIES SHOWS / DISPLAYS | 2 | | | |
| | DEPARTMENT OF FISHERIES INTERNET WEB SITE | 3 | | | |
| | OTHER FISHING WEB SITES | 4 | | | |
| | FISHING MAGAZINES | 5 | | | |
| | NEWSPAPERS | 6 | | | |
| | TELEVISION | 7 | | | |
| | RADIO | 8 | | | |
| | TACKLE SHOP | 9 | | | |
| | CLUBS / ASSOCIATIONS | 10 | | | |
| | DEPARTMENT OF FISHERIES OFFICERS / RESEARCHERS / VOLUNTEER FISHERIES LIAISON OFFICERS | 11 | | | |
| | OTHER FISHERS | 12 | | | |
| | NONE | 13 | | | |
| | OTHER | | | | |

Q12b Which of these is the main way you find out about these things?

| reasor | n? | |
|--------|---|--|
| | YES NO DON'T KNOW 1 2 Q14 | |
| Q13b | How did you make contact with the Dep | partment of Fisheries? |
| | Telephone 1 | |
| | In person 2 | |
| | Mail 3 | |
| | Fax 4 | |
| | Email 5 | |
| | Internet 6 | |
| | DON'T KNOW / CAN'T RECALL 9 | |
| | OTHER | |
| Q13c | satisfied were you with the level of servi | with the Department of Fisheries, overall, how ice you received? |
| | Very Satisfied 1 | |
| | Satisfied 2 | |
| | Dissatisfied 3 | |
| | Very Dissatisfied 4 | |
| | NEITHER 5 | |
| | DON'T KNOW 9 | |
| | NOT RELEVANT 10 | |
| Q14 | | oproached or contacted by someone from ives of Department of Fisheries such as |
| | YES - VFLO's (Yellow Shirts) | 1 |
| | YES - Researchers (Red Shirts) | 2 |
| | YES - Department officers (Uniforms) | 3 |
| | YES - OTHER | |
| | NO / CAN'T SAY | 9 |
| | Volunteer Fisheries Liaison Officers? | |
| Q15 | Do you recall over the last twelve month Department of Fisheries in the media? YES - TV | ns seeing or hearing anything about the |
| | YES - Newspapers/Magazines | 2 |
| | YES - Radio | 3 |
| | YES - Internet | 4 |
| | YES - UNSURE WHERE | 5 |
| | NO / UNSURE | 9 |
| | | |

Q13a During the past 12 months have you contacted the Department of Fisheries for any

| Q16a | Aquaculture is the farming of aquatic plants and animals. Do you feel that aquaculture is beneficial to the state? |
|---------|---|
| | YES 1 |
| | NO Q16c |
| | DON'T KNOW 9 —> Q16c |
| Q16b | What do you think is the main benefit of aquaculture? |
| | Relieves pressure on wild fish stocks |
| | Provides fresh seafood Provides consumers with greater range and availability of seafoo d Provides regional employment and economic development |
| | Provides consumers with greater range and availability of seafoo d |
| | Provides regional employment and economic development |
| | DON'T KNOW |
| | OTHER |
| Q16c | Do you feel that aquaculture has any negative impacts to the state? |
| | YES 1 |
| | NO 2 — Q17 |
| | DON'T KNOW 9 —> Q17 |
| Q16d | What do you think is the main negative impact? |
| | Risk of disease |
| | Pollution 2 |
| | Competition for space |
| | Economic viability 4 |
| | DON'T KNOW 9 |
| | OTHER |
| | |
| Finally | to make sure we've spoken to a cross section of people I would like to ask you some questions about yourself. |
| Q17 | Firstly, into which of these age groups do you fall? |
| | 18 to 19 years 1 |
| | 20 to 24 years 2 |
| | 25 to 34 years 3 |
| | 35 to 44 years 4 |
| | 45 to 54 years 5 |
| | 55 to 64 years 6 |
| | 65 years & over 7 |
| | REFUSED 8 |
| | |
| Q18 | Which of the following categories best describes what you currently do? |
| | Full - time work in a job or business |
| | Part - time work in a job or business Full - time student |
| | Looking for work |
| | Retired or aged pensioner 5 |
| | Retired or aged pensioner Other pensioner Q20 |
| | Home duties |
| | OTHER |
| | |

| Q19 | What kind of work do you do? Managers | 1 |
|-------|---|----------------------------|
| | Professionals | 2 |
| | Technicians and associated professionals | 3 |
| | Tradespersons | 4 |
| | Production, plant and transport operators | 5 |
| | Clerical, sales and service - advanced, intermediate | 6 |
| | Clerical, sales and service - elementary | 7 |
| | Labourers, process workers, cleaners etc. | 8 |
| | OTHER | |
| Would | you mind telling me your first name? (Just in case my supervisor wants to check that th | e work was done properly.) |
| RECO | RD NAME ON FORM | |
| Q20 | POSTCODE | |
| | | |
| | | |
| Q21 | SEX | |
| | MALE 1 1 | |
| Thank | you for your time! | |

WRITE YOUR INITIALS ON THE TOP LEFT HAND CORNER.

5.2 Appendix B: Survey Answer Form

| | Department of Fisheries | Community S | urvey 2006 | 6 | | | Respondent Name: |
|-----------------------|-------------------------|-------------|------------|--------|-------------|----|---|
| Interview Initials | ver I | Region C M | | Sex | м | F | Postcode |
| Day/ | Mth Time Result | ☐ Anno | intments/C | Other | | 닉 | Response Report |
| / | Time Regult | Арро | manonto, c | Juioi | | | Fully Responded 1 |
| / | | | | | | | Full Refusal 2 Part Refusal 3 |
| 7 | | | | | | | Full non-contact 4 |
| / | | | | | | | Part non-contact 5 |
| / | | | | | | | Number disconnected 6 Business number 7 |
| / | | | | | | | OTHER |
| Q1 | 1 2 9 | | Q12a | 1 | 2 | 3 | |
| Q2 | 1 | | | 4 | | | |
| | 2 | | | 5 | | | |
| | 3 | | | 6 | | | |
| | 4 | | | 7 | | | |
| | 5 | | | 8 | | | |
| | 6 | | | 9 | 10 | 11 | 12 13 |
| | 7 - 9 | | | OTHE | ER | | |
| Q3 | 1 2 9 | | | | | | |
| Q4a | 1 2 3 4 5 | 6 7 9 | Q12b | | | | |
| | OTHER | | Q13a | 1 | 2 | 9 | |
| Q4b | 1 2 3 4 5 | 9 | Q13b | 1 | 2 | 3 | 4 5 6 9 |
| Q5a | 1 2 3 4 5 | 6 7 9 | | OTHE | ER | | |
| | OTHER | | Q13c | 1 | 2 | 3 | 4 5 9 10 |
| Q5b | 1 2 3 4 5 | 9 | Q14 | 1 | 2 | 3 | 9 |
| Q6a | 1 2 3 4 5 | 6 7 9 | | OTHE | ER | _ | |
| | OTHER | | Q15 | 1 | 2 | 3 | 4 5 9 |
| Q6b | 1 + 2 + 3 + 4 + 5 | | Q16a | 1 | 2 | 9 | |
| Q7a | 1 2 3 4 5 | 6 7 9 | Q16b | 1 | <u></u> | 3 | 4 9 |
| | OTHER | | Q16c | 1 | 2 | | |
| Q7b | 1 + 2 + 3 + 4 + 5 | <u> </u> | Q16d | | 2 | 3 | 4 9 |
| Q8 | 1 + 2 + 9 | | 047 | OTHE | | | |
| Q9 Q10a | 1 H 2 H 3 H 9 | | Q17 Q18 | 1 | 2 | 3 | - 4 - 5 - 6 - 7 - 8 4 - 5 - 6 - 7 - 8 |
| Q10a | 1 + 2 + 3 + 9 | | QIO | OTHE | | | |
| Q10c | 1 + 2 + 3 + 9 | | Q19 | 1 | -i\ [2]- | 3 | — — — — |
| Q11a | 1 + 2 + 3 + 4 + 5 | 9 | 4.0 | OTHE | | ت | |
| Q11b | 1 + 2 + 3 + 4 + 5 | = == | | J 111L | | | |
| Q11c | 1 + 2 + 3 + 4 + 5 | = = | | | | | |
| Q11d | 1 + 2 + 3 + 4 + 5 | == | | | | | |
| Q11e | 1 + 2 + 3 + 4 + 5 | = == | | | | | |
| Q110 | | | | | | | |