

Structural Reform Program

Statistical information for industry

The NSW Estuary Prawn Trawl Fishery

Data prepared for the Seafood Industry Advisory Council Structural Adjustment Working Group by Industry and Investment NSW.

Estuary Prawn Trawl Fishery

Overview

Shares

Table 1: Change in EPT shares held between the introduction of share management (5/2/07) and the present (27/10/09).

Share Classes	EPT Clarence River	EPT Hawkesbury River	EPT Hunter River	EPT Fishery number of FB
Total Number of shares of class as at 06-02-07	15550	8490	2900	
Number of FB w Shares as at 06-02-07	111	58	29	195
06-02-07 Number FB below Min Shares	28	8	0	36
Min of Shares for endorsement	150	150	100	
Total Number of shares of class as at 27-10-09	15430	8490	2800	
Number of FB w Shares as at 27-10-09	102	56	27	180
Number FB below Min Shares as at 27-10-09	20	3	0	23
Maximum number of FB with endorsement if trade to meet min shares	102	56	27	

Note: While there is currently a number of fishing businesses with less than the minimum shares for an endorsement for a new entrant, there are sufficient shares of those classes available for all current fishing businesses to meet the minimum share holding through share trading.

Relevant legislation (<http://www.legislation.nsw.gov.au>):

Fisheries Management Act 1994 No 38

Fisheries Management (General) Regulation 2002

Fisheries Management (Supporting Plan) Regulation 2006

Fisheries Management (Estuary Prawn Trawl Share Management Plan) Regulation 2006

Table 2: Shows the cross fishery structure of Estuary Prawn Trawl Fishing Businesses.

EPT FBs as at 09-12-09	EPT only	EPT & EG only	EPT & OT only	EPT, EG & OT only	EPT & other	Total No. FB
Estuary Prawn Trawl Clarence River	2	49	12	20	19	102
Estuary Prawn Trawl Hawkesbury River	24	21	4	3	4	56
Estuary Prawn Trawl Hunter River	9	7	4	4	3	27

Note:

That of the 82 FB reporting working in the EPT fishery in the Clarence in that 5 year period, 8 did not report working in any other fishery while 36 Clarence EPT FB were reported as part of EG &/or OH crews for 2895 days OH and 997 days EG in total over 5 years.

That of the 50 FB reporting working in the EPT fishery in the Hawkesbury in that 5 year period, 23 did not report working in any other fishery while 19 Hawkesbury EPT FB were reported as part of EG &/or OH crews for 881 days OH and 2410 days EG in total over 5 years.

That of the 27 FB reporting working in the EPT fishery in the Hunter in that 5 year period, 7 did not report working in any other fishery while Hunter EPT FB were reported as part of EG &/or OH crews for 1802 days OH and 3212 days EG in total over 5 years.

Table 3: Shows the lengths of vessels (LFBs) reported as used for Estuary Prawn Trawling in each estuary across the 5 years.

No. of LFB	Length (<m)													No. of LFB		
	unspec.	5	6	7	8	9	10	11	12	13	14	15	16		17	
EPT																
Clarence	2		17	13	18	19	11	10	4	3	2	1		2		102
Hawkesbury	2			6	22	14	7	2					1	1		55
Hunter	1	1	1	5	10	8	4		1	1	1					33

Note: That under current regulation only licensed fishing boats with an EPT notation may be greater in length than 10m in the EPT fishery.

Note: The number of LFB reported for each estuary is greater than the number of FB reporting, this may be due to use of “new” boats by a FB

Note: The identification of some LFB may be incorrect due to data reporting/entry errors.

Hunter River Estuary Prawn Trawl

Gross Value of Product (GVP)

Effort (Fisher Months)

Effort (Fisher Days)

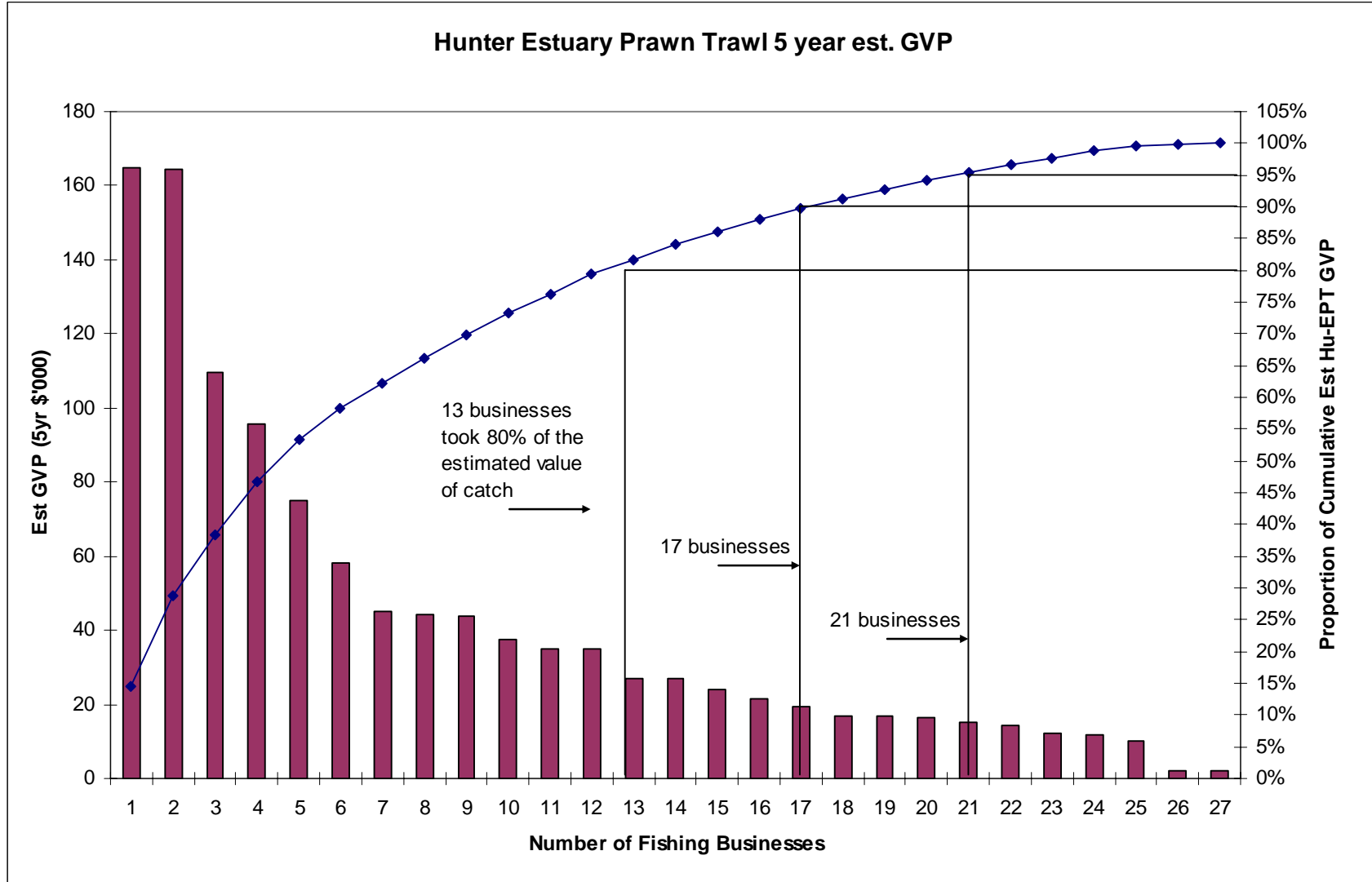
Estimates

The dollar value of the estimated GVP is summed across 5 years (March 2003 to February 2008) and the values are based on reported landings by species and price is based on the corresponding Sydney Fish Market average monthly species price*.
{*pending industry providing comprehensive local price information}

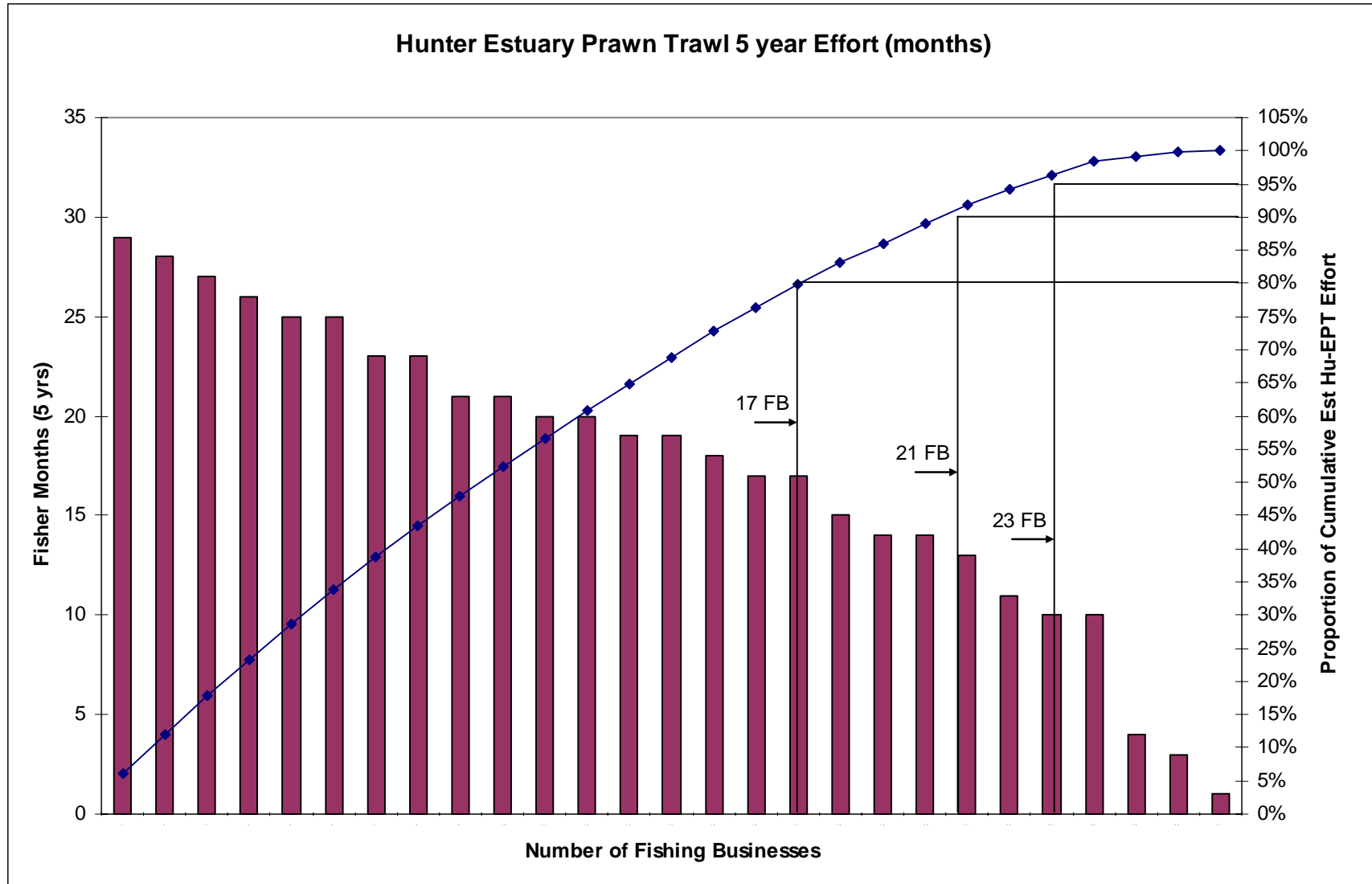
The effort value of these estimates is months and days reported working (EPT prawn trawl) summed across 5 years (March 2003 to February 2008).

There are currently 27 fishing businesses with Hunter River Estuary Prawn Trawl (Hu-EPT) shares. 27 businesses reported some EPT catch from the Hunter River over the five years from March 2003.

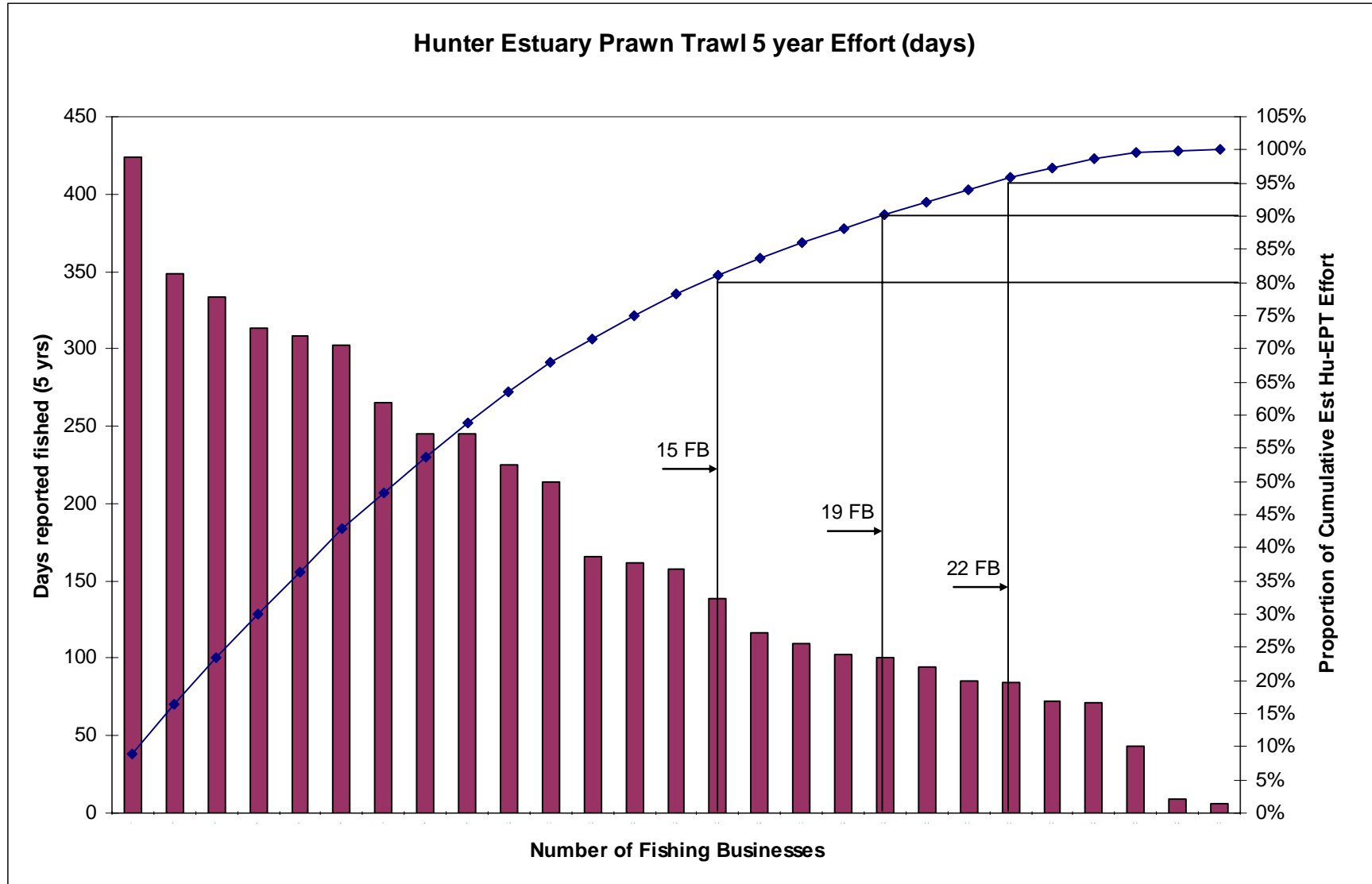
Graph 1.1. The bars on this graph relate to the left-hand axis and show GVP sorted by rank for all Hunter River EPT businesses over the five years from March 2003. This graph only shows income from Hu-EPT and not other part of any business. 27 businesses reported some catch and 13 businesses took 80% of the total value. Similarly, 21 businesses took 95% of the total leaving 6 businesses taking 5% of the value.



Graph 1.2. The bars on this graph relate to the left-hand axis and show the months of effort sorted by rank for all Hu-EPT businesses over the five years from March 2003. This graph only shows effort from Hu-EPT and not other part of any business. 27 businesses reported some effort and 17 businesses reported 80% of the total months of effort. Similarly, 23 businesses worked 95% of the total leaving 4 businesses that worked 5%.



Graph 1.3. The bars on this graph relate to the left-hand axis and show the days of effort sorted by rank for all Hu-EPT businesses over the five years from March 2003. This graph only shows effort from Hu-EPT and not other part of any business. 27 businesses reported some days of effort and 15 businesses reported 80% of the total days of effort. Similarly, 22 businesses worked 95% of the total days leaving 5 businesses that worked 5%.



Graph 1.4. The relationship between earnings (total gross value of production – GVP) per business from Hunter River Estuary Prawn Trawl and earnings from other fisheries. Each dot represents a business and the higher the dot on the left-hand axis the more that business earns from Hu-EPT, up to 100%. Note that most businesses are at the top of the graph, meaning most income for those FB is coming from Hu-EPT.

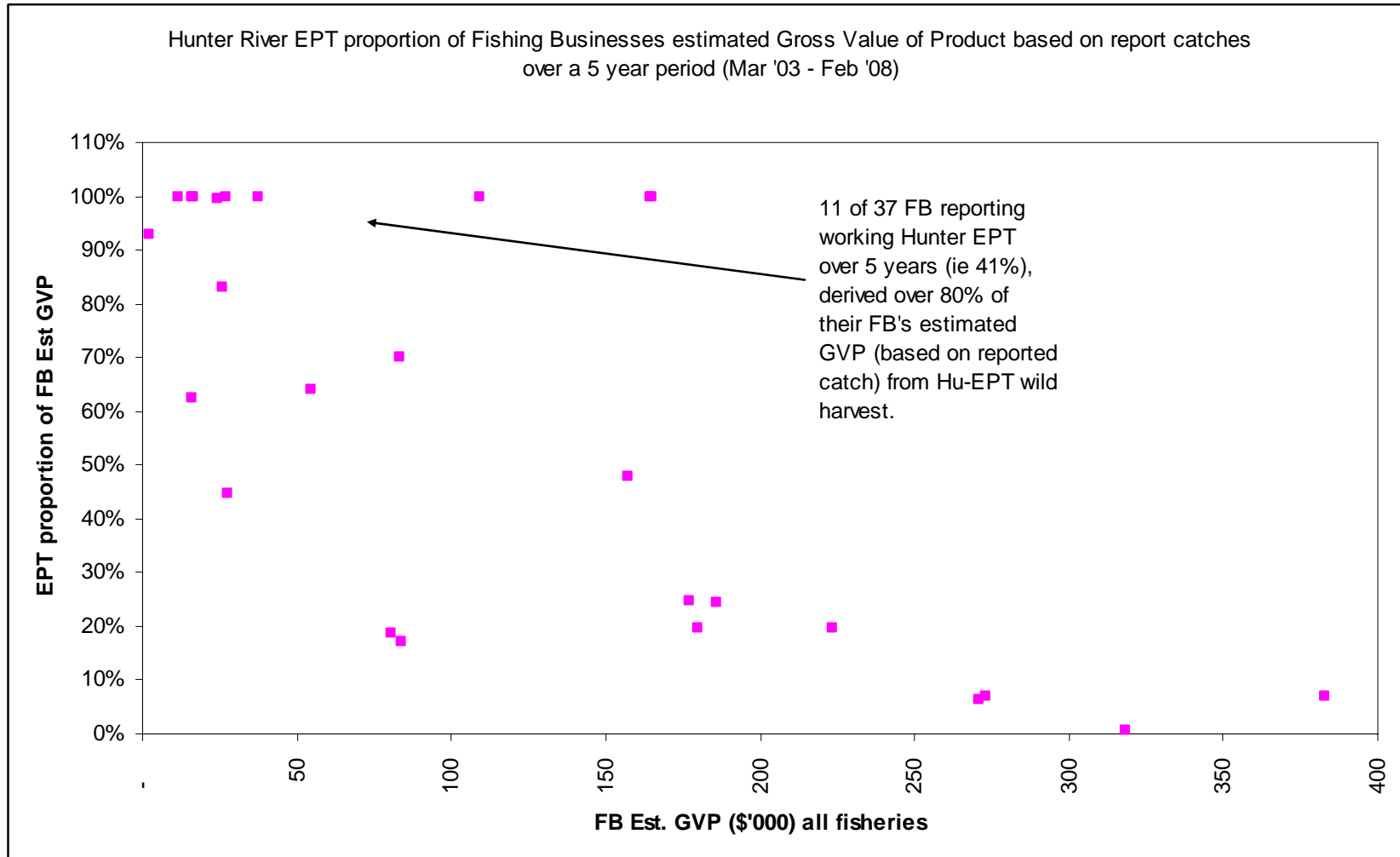


Table 4: Reported EPT Target & By-Product landings and estimated GVP of all landings as reported in the Hunter River Estuary Prawn Trawl (Hu-EPT) for prawn trawl method. (Source: I&I NSW ComCatch 09-12-09 extract)

Fiscal	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
FB reporting	19	16	27	26	25	24	26	23	24	22	21	17
Est GVP	\$163,024	\$207,234	\$417,813	\$615,093	\$321,894	\$339,557	\$337,947	\$234,997	\$193,271	\$185,736	\$416,515	\$476,355
Prawn, Eastern King*			4,094	2,665	2,667	294	280	256	44	458	160	269
Prawn, School*	34,021	27,780	52,284	77,138	34,976	29,533	43,060	43,199	26,179	22,051	74,542	81,620
Prawn, Greasyback					105					12		
Squid				6			13	16		12	55	87
Prawn, Unspecified Estuary			5		32							
Target* & By-product (kg)	34,021	27,780	56,383	79,809	37,779	29,827	43,353	43,471	26,223	22,533	74,757	81,976

Target species

School prawn (*Metapenaeus macleayi*)

Eastern king prawn (*Melicertus plebejus*)

By-product species

Greasyback prawn (*Metapenaeus bennettiae*)

Tiger prawn (*Penaeus esculentus*)

Arrow squid (*Notodarus gouldi*)

Broad squid (*Photololigo etheridgei*)

Slender squid (*Loligo* sp.)

Bottle squid (*Loliolus noctiluca*)

Clarence River Estuary Prawn Trawl

Gross Value of Product (GVP)

Effort (Fisher Months)

Effort (Fisher Days)

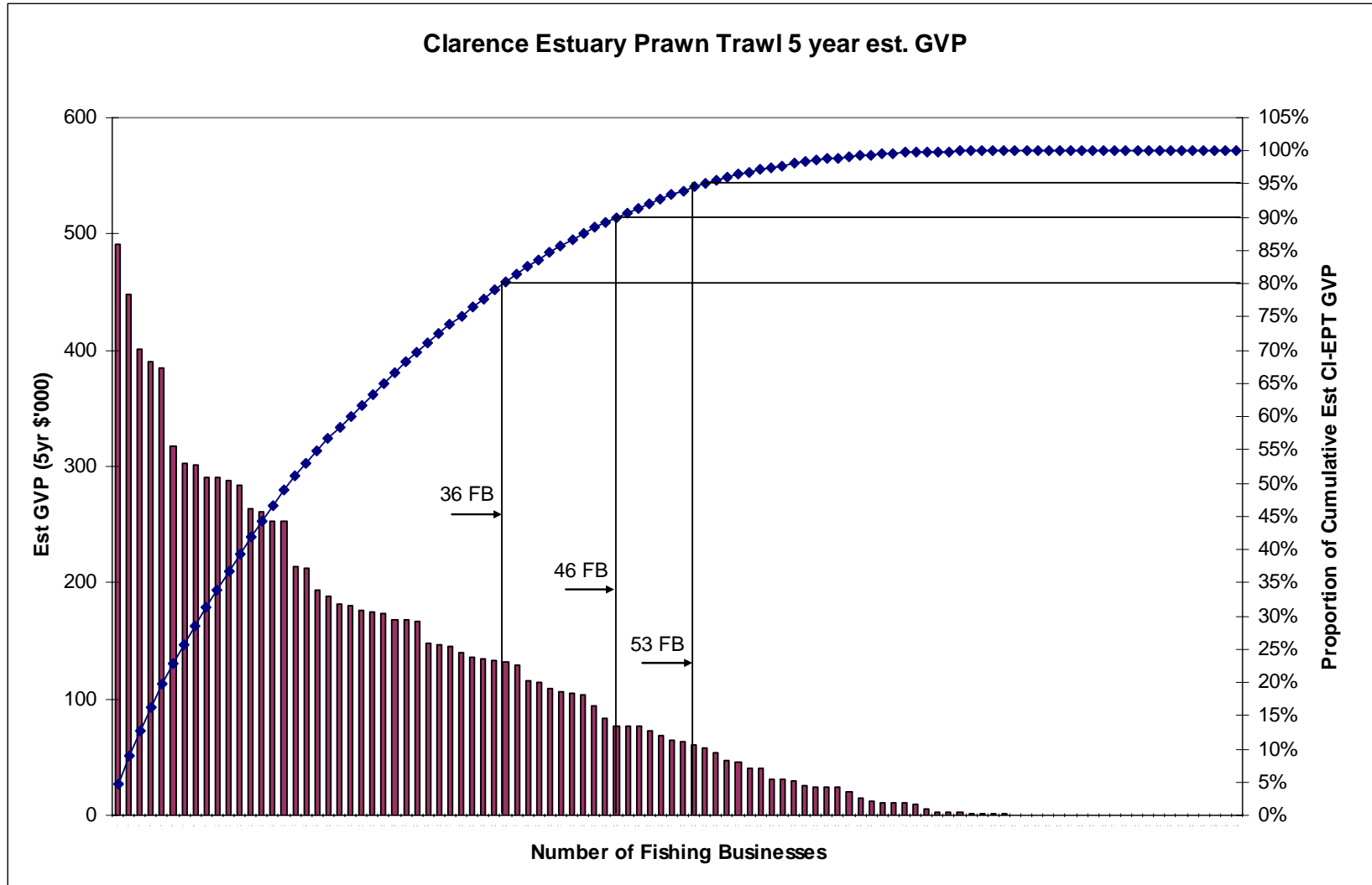
Estimates

The dollar value of the estimated GVP is summed across 5 years (March 2003 to February 2008) and the values are based on reported landings by species and price is based on the corresponding Sydney Fish Market average monthly species price*.
{*pending industry providing comprehensive local price information}

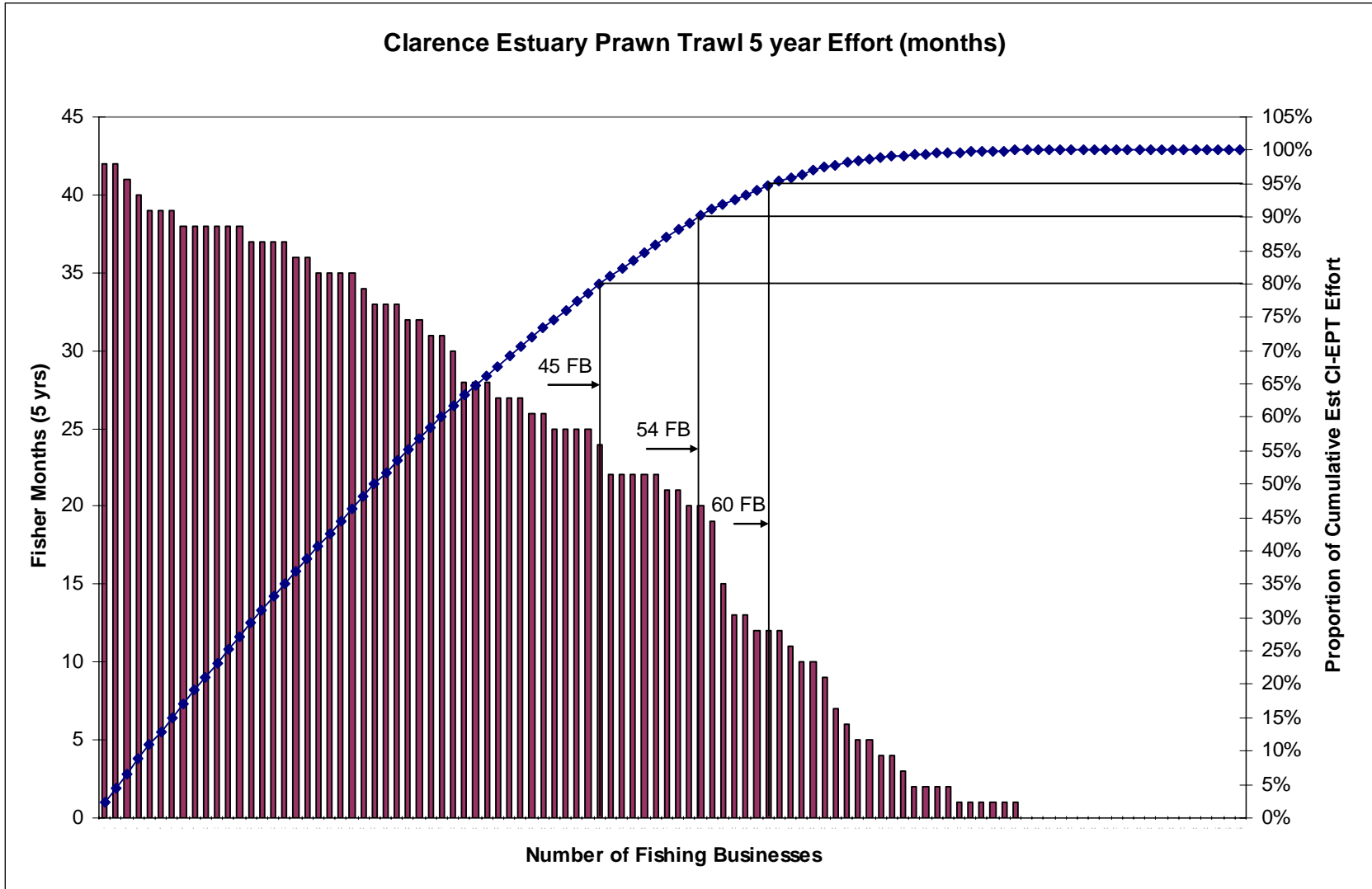
The effort value of these estimates is months and days reported working (EPT prawn trawl) summed across 5 years (March 2003 to February 2008).

There are currently 102 fishing businesses with Clarence River Estuary Prawn Trawl (CI-EPT) shares. 82 businesses reported some catch from the Clarence River and/or Lake Wooloweyah over the five years from March 2003. This indicates that approximately 20% of the current number of entitlements were completely inactive over a 5 year period.

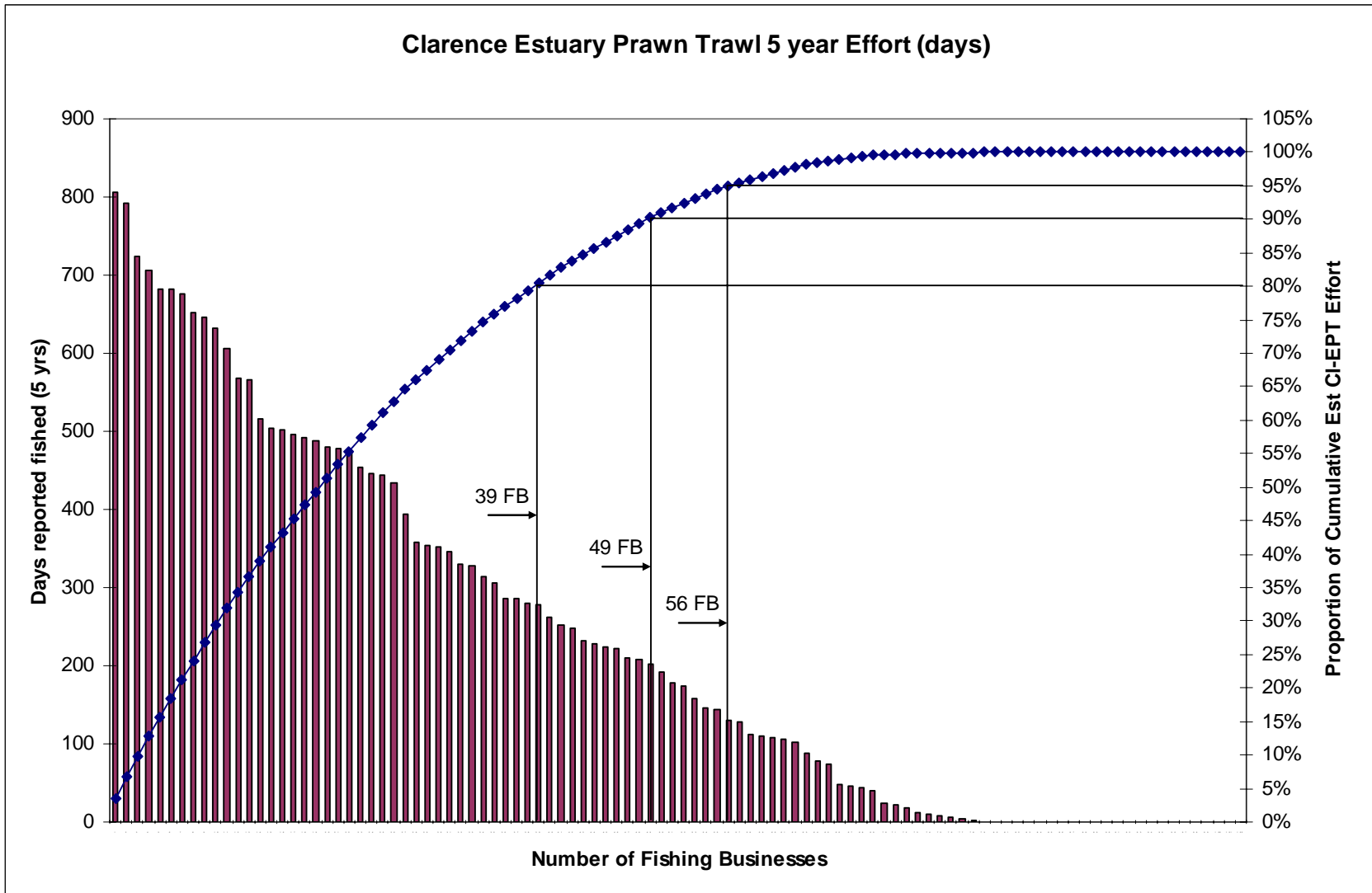
Graph 2.1. The bars on this graph relate to the left-hand axis and show GVP sorted by rank for all Clarence River EPT businesses over the five years from March 2003. This graph only shows income from CI-EPT and not other part of any business. 82 businesses reported some catch and 36 businesses took 80% of the total value. Similarly, 53 businesses took 95% of the total leaving 29 businesses taking 5% of the value.



Graph 2.2. The bars on this graph relate to the left-hand axis and show the months of effort sorted by rank for all CI-EPT businesses over the five years from March 2003. This graph only shows effort from CI-EPT and not other part of any business. 82 businesses reported some effort and 45 businesses reported 80% of the total months of effort. Similarly, 60 businesses worked 95% of the total leaving 22 businesses that worked 5%.



Graph 2.3. The bars on this graph relate to the left-hand axis and show the days of effort sorted by rank for all CI-EPT businesses over the five years from March 2003. This graph only shows effort from CI-EPT and not other part of any business. 82 businesses reported some days of effort and 39 businesses reported 80% of the total days of effort. Similarly, 56 businesses worked 95% of the total days leaving 26 businesses that worked 5%.



Graph 2.4. The relationship between earnings (total gross value of production – GVP) per business from Clarence River Estuary Prawn Trawl and earnings from other fisheries. Each dot represents a business and the higher the dot on the left-hand axis the more that business earns from CI-EPT, up to 100%. Note that most businesses are at the top of the graph, meaning most income for those FB is coming from CI-EPT.

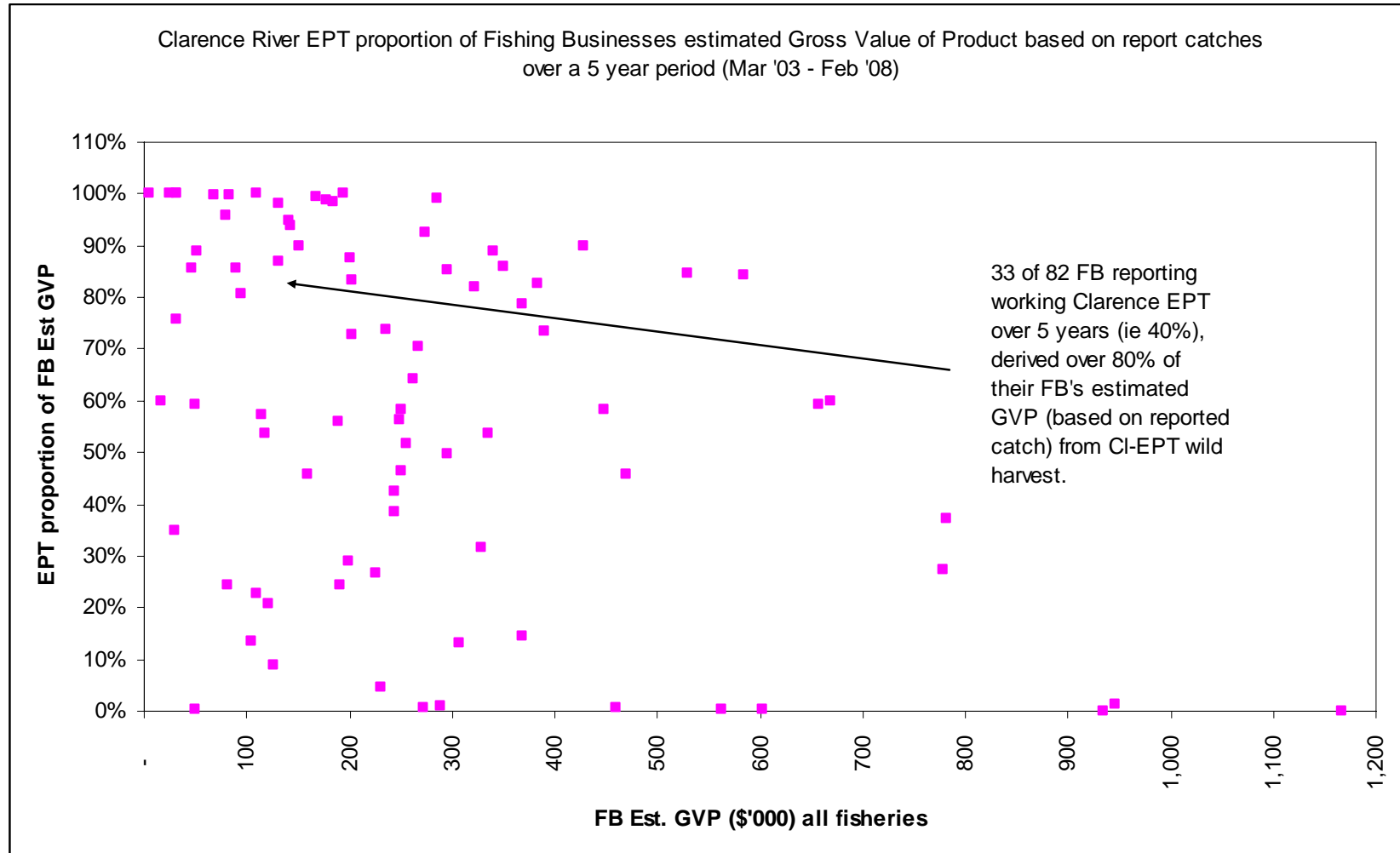


Table 5: Reported EPT Target & By-Product landings and estimated GVP of all landings as reported in the Clarence River Estuary Prawn Trawl (CI-EPT) for the prawn trawl method in the Clarence River and/or Lake Wooloweyah. (Source: I&I NSW ComCatch 09-12-09 extract)

Fiscal	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
FB reporting	51	58	85	68	68	70	70	61	62	70	63	58
Est GVP	\$862,384	\$1,402,765	\$2,788,173	\$2,405,436	\$1,364,997	\$2,110,639	\$2,031,725	\$1,170,695	\$2,116,742	\$3,057,196	\$2,427,425	\$1,696,080
Prawn, School*	171,534	206,167	409,820	322,316	173,337	207,343	276,759	207,711	292,550	393,351	402,331	278,422
Catfish, Estuary	204	256	101	38	4	3	24	4	13	1		42
Catfish, Forktailed		60	134	33			2					
Crab, Blue Swimmer	38	10	5		21	32	25	35	42			
Crab, Mud	85	366	66	53	3	214	106	6	126	8	35	35
Prawn, Eastern King	463	131	5,883	5,303	2,123	3,445	709	3,246	1,487	1,172	1,195	
Prawn, Greasyback			1		174	140					60	
Prawn, Tiger	40	269	1		35	2		21	191			
Squid									10			
Whiting, Trumpeter			195			34	8	1	12	1	1	
Prawn, Unspecified Estuary			195								1,005	
Target* & By-product (kg)	172,364	207,257	416,400	327,743	175,696	211,212	277,632	211,024	294,431	394,533	404,627	278,499

Target species

School prawn (*Metapenaeus macleayi*)

By-product species

Eastern king prawn (*Melicertus plebejus*)

Greasyback prawn (*Metapenaeus bennettiae*)

Tiger prawn (*Penaeus esculentus*)

Trumpeter whiting (*Sillago maculata*)

Silverbidy (*Gerres subfasciatus*)

Fork-tailed catfish (*Arius* spp.)

Estuary catfish (*Cnidoglanis macrecephalus*)

Striped catfish (*Plotosus lineatus*)

Blue swimmer crab (*Portunus pelagicus*)

Mud crab (*Scylla serrata*)

Arrow squid (*Notodarus gouldi*)

Broad squid (*Photololigo etheridgei*)

Slender squid (*Loligo* sp.)

Hawkesbury River Estuary Prawn Trawl

Gross Value of Product (GVP)

Effort (Fisher Months)

Effort (Fisher Days)

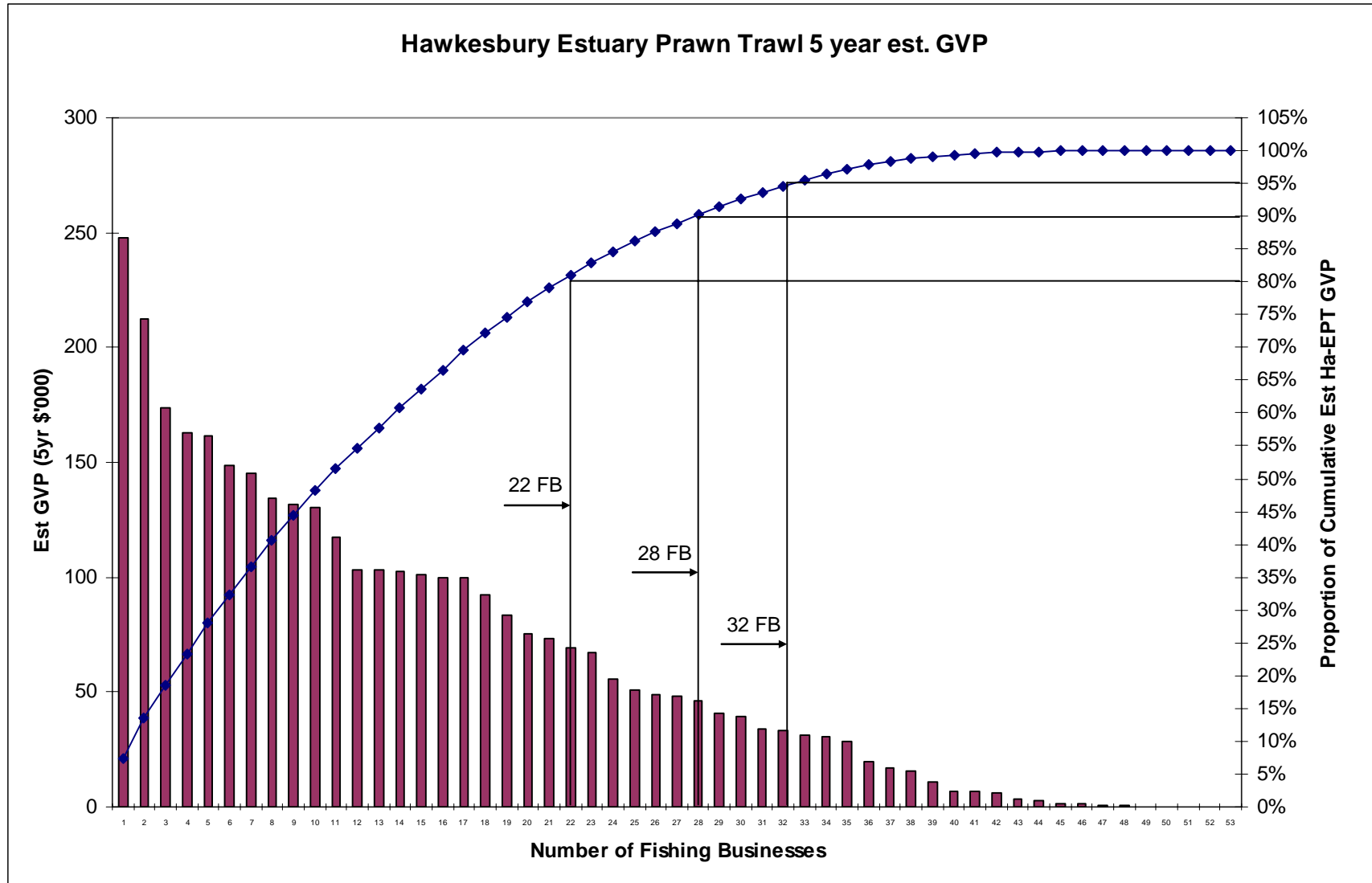
Estimates

The dollar value of the estimated GVP is summed across 5 years (March 2003 to February 2008) and the values are based on reported landings by species and price is based on the corresponding Sydney Fish Market average monthly species price*.
{*pending industry providing comprehensive local price information}

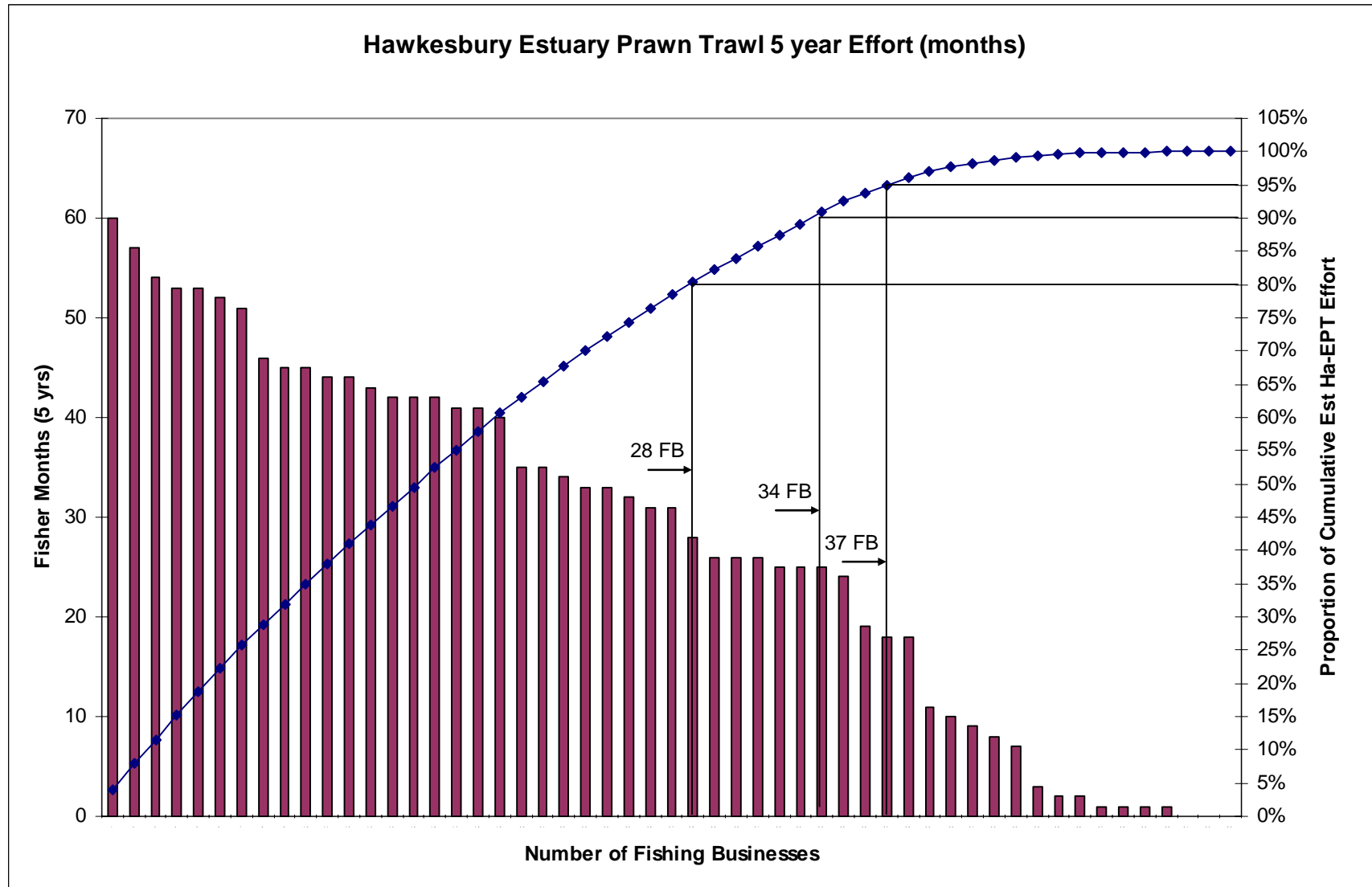
The effort value of these estimates is months and days reported working (EPT prawn trawl or EPT squid trawl) summed across 5 years (March 2003 to February 2008).

There are currently 56 fishing businesses with Hawkesbury Estuary Prawn Trawl (Ha-EPT) shares. 50 businesses reported some EPT catch from the Hawkesbury River over the five years from March 2003.

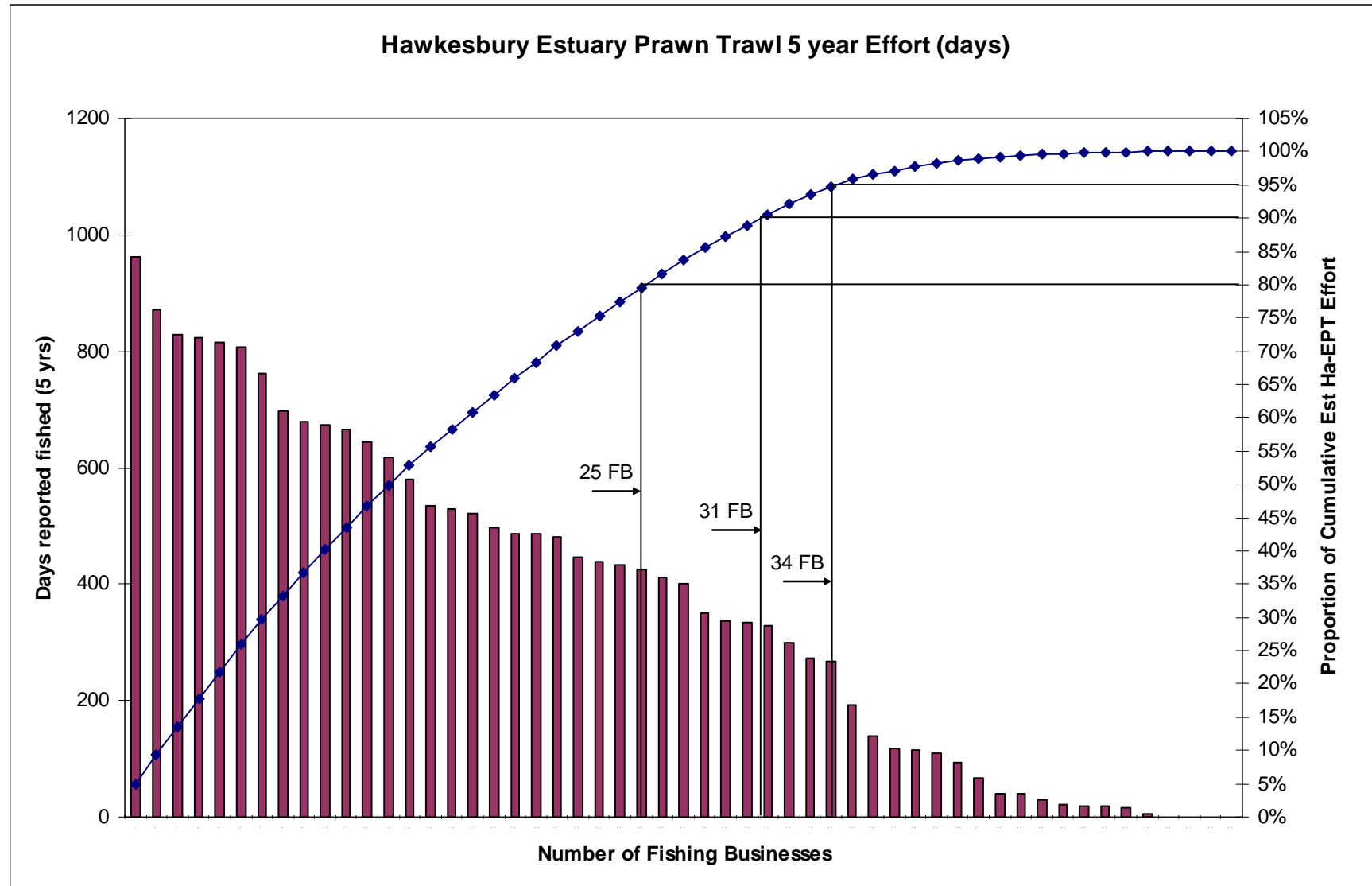
Graph 3.1. The bars on this graph relate to the left-hand axis and Ha-EPT and not other part of any business. 50 businesses reported some catch and 22 businesses took 80% of the total value. Similarly, 32 businesses took 95% of the total leaving 18 businesses taking 5% of the value.



Graph 3.2. The bars on this graph relate to the left-hand axis and show the months of effort sorted by rank for all Ha-EPT businesses over the five years from March 2003. This graph only shows effort from Ha-EPT and not other part of any business. 50 businesses reported some effort and 28 businesses reported 80% of the total months of effort. Similarly, 37 businesses worked 95% of the total leaving 13 businesses that worked 5%.



Graph 3.3. The bars on this graph relate to the left-hand axis and show the days of effort sorted by rank for all Ha-EPT businesses over the five years from March 2003. This graph only shows effort from Ha-EPT and not other part of any business. 50 businesses reported some days of effort and 25 businesses reported 80% of the total days of effort. Similarly, 34 businesses worked 95% of the total days leaving 16 businesses that worked 5%.



Graph 3.4. The relationship between earnings (total gross value of production – GVP) per business from Hawkesbury River Estuary Prawn Trawl and earnings from other fisheries. Each dot represents a business and the higher the dot on the left-hand axis the more that business earns from Ha-EPT (prawn & squid) up to 100%. Note that most businesses are at the top of the graph, meaning most income for those FB is coming from Ha-EPT.

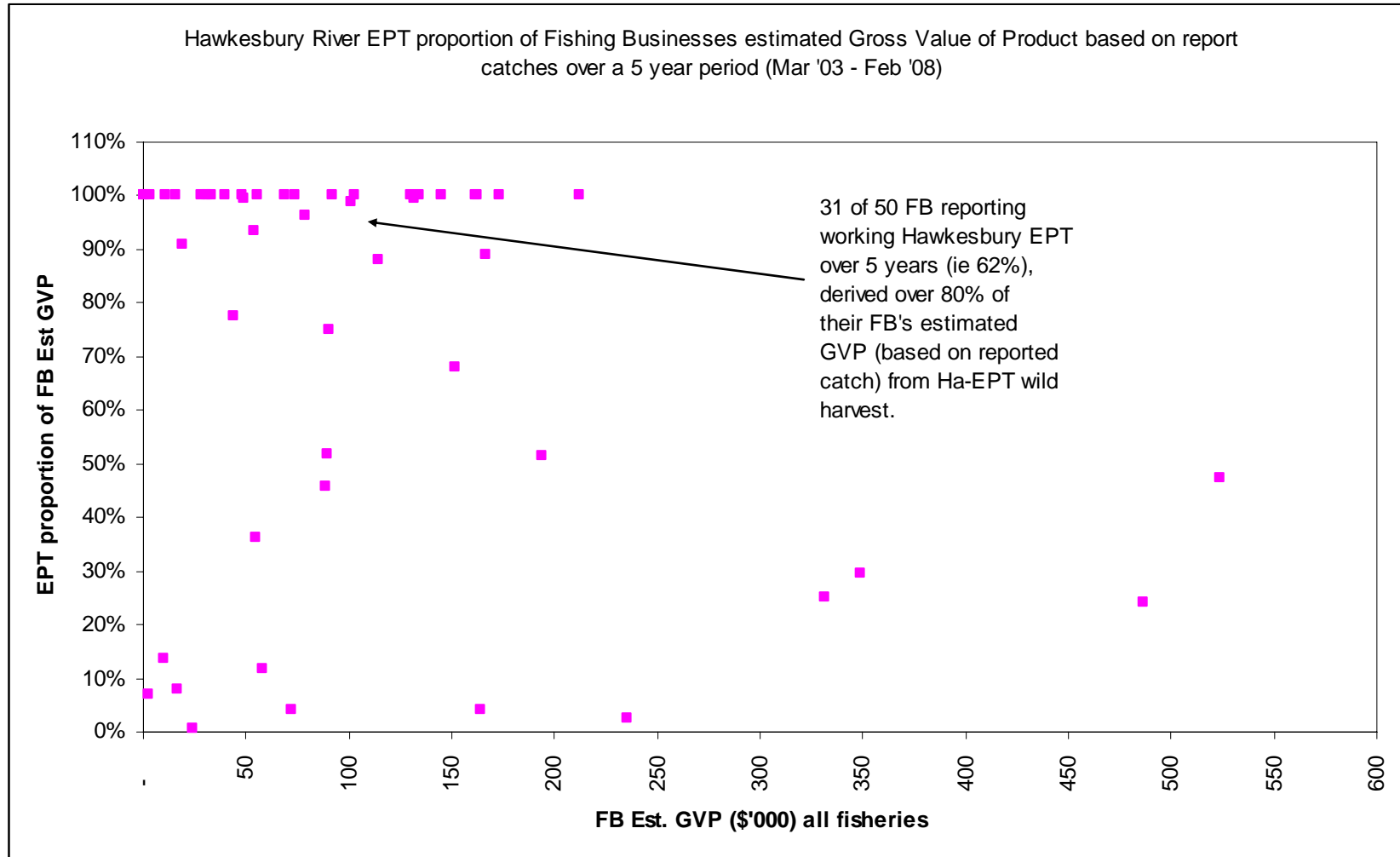


Table 6: Reported EPT Target & By-Product landings and estimated GVP of all landings as reported in the Hawkesbury River Estuary Prawn Trawl (Ha-EPT) for prawn trawl and squid trawl methods. (Source: I&I NSW ComCatch 09-12-09 extract)

Fiscal	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
FB reporting	22	23	44	44	44	43	41	40	37	36	36	35
Est GVP	\$256,698	\$340,064	\$739,354	\$1,165,912	\$690,882	\$813,594	\$690,481	\$694,800	\$761,085	\$814,142	\$802,405	\$1,178,399
Prawn, Eastern King*	1,327	2,419	5,548	3,811	640	1,730	1,465	1,593	1,284	1,147	1,968	3,038
Prawn, School*	24,563	18,944	64,425	123,920	62,030	53,326	59,848	84,044	68,199	68,371	79,945	143,626
Squid*	21,805	24,362	35,706	22,442	30,224	26,961	30,056	24,477	21,400	16,974	20,172	15,520
Prawn, Greasyback		66	975			24	65	682	1,066	1,064	534	131
Prawn, Tiger	2	12	80	25	1							
Crab, Blue Swimmer	2,386	3,265	2,902	3,137	2,543	2,855	3,246	2,130	2,207	1,833	3,115	1,889
Crab, Mud	3	2	86	183	19	32	87	40	42	736	36	34
Flounder, Unspecified	476	1,014	1,330	1,559	1,380	964	841	948	1,625	1,320	314	612
Hairtail	838	534	392	349	833	1,312	123	28	255	104	43	54
Octopus	59	92	262	374	157	273	229	440	294	392	156	487
Sandy sprat (whitebait)	43	209	47	24	7	67	193	55	11	1	12	26
Shrimp, Mantis	20	1	604	299	88	29	26	43	121	12	27	1
Sole, Black	35	351	64	68	86	114	53	65	17	61		
Sole, mixed	9	22	2	17		13	40		16	9		25
Whiting, Trumpeter	6,592	9,125	19,849	12,778	6,116	7,908	6,520	14,957	14,309	14,981	12,800	7,236
Yellowtail	594	400	1,267	1,445	1,154	1,018	914	1,201	3,013	1,901	4,734	2,747
Snapper		8										
Whitebait (Glass fish)		154	468	216	103	204	45	35		48		
Catfish, Striped			22						27	25		
Trumpeter			168	18	33	50		256				
Prawn, Unspecified Estuary			197	44	10			4		4		1
Target* & By-product (kg)	58,751	60,980	134,393	170,708	105,424	96,880	103,748	130,997	113,885	108,982	123,855	175,425

Target species

- School prawn (*Metapenaeus macleayi*)
- Eastern king prawn (*Melicertus plebejus*)
- Broad squid (*Photololigo etheridgei*)
- Slender squid (*Loligo sp.*)
- Bottle squid (*Loliolus noctiluca*)
- Bubble squid (*Eupyrmyna stenodactyla*)
- Candy striped squid (*Sepioloida lineolate*)

By-product species

Greasyback prawn (*Metapenaeus bennettiae*)
Tiger prawn (*Penaeus esculentus*)
Trumpeter whiting (*Sillago maculata*)
Large-toothed flounder (*Pseudorhombus arsius*)
Small-toothed flounder (*Pseudorhombus henynsii*)
Black sole (*Brachirus nigra*)
Silverbidy (*Gerres subfasciatus*)
Striped grunter (*Pelates quadrilineatus*)
Whitebait spp. (Family: CLUPEIDAE)
Fork-tailed catfish (*Arius* spp.)
Striped catfish (*Plotosus lineatus*)
Bullseye spp. (Family: PEMPHERIDIDAE)
Hairtail (*Trichiurus lepturus*)
Yellowtail scad (*Trachurus novaezelandiae*)
Blue swimmer crab (*Portunus pelagicus*)
Mud crab (*Scylla serrata*)
Octopus spp. (Family: OCTOPODIDAE)
Mantis shrimp (*Erugosquilla grahami*)
Mantis shrimp (*Harpisquilla harpex*)