



NHMRC FINAL REPORT SUMMARY

*Preliminary results from final reports received
for NHMRC funded awards that ended
between 2003 – 2005*

October 2007



INTRODUCTION

This is a preliminary report of the data received on final reports from NHMRC grants that ended in 2003, 2004 and 2005.

This data builds on the analysis of grants that ended in 2004 (completed in May 2006), and for the first time includes trend analysis over multiple years.

1208 final reports are included in this analysis, which is 69% of the reports expected. This analysis includes every final report received in a usable format by NHMRC as at October 2007. This is different from the previous final report analysis of grants ending in 2004, which was a selected sample of 400 reports.

The 1208 reports included cover more than \$460.1 million of NHMRC funding between 1998 and 2005.

Scholarships, equipment grants and block funding are excluded.



N H M R C

NUMBER OF FINAL REPORTS EXPECTED AND RECEIVED

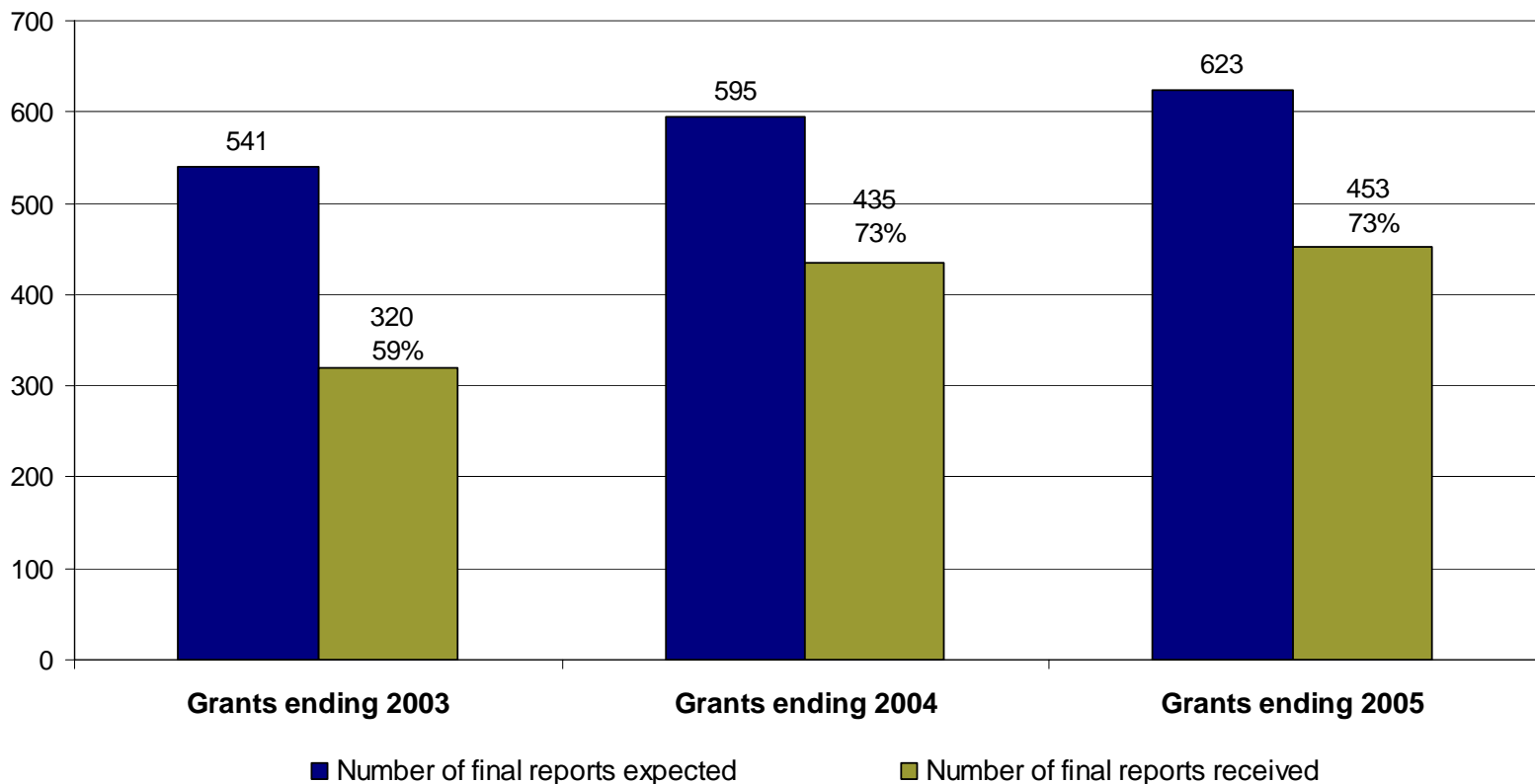


FINAL REPORTS EXPECTED AND RECEIVED

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The reports included in this analysis cover nearly 70% of the total number of expected reports between 2003 - 2005.

Number of final reports expected and recieved 2003 - 2005



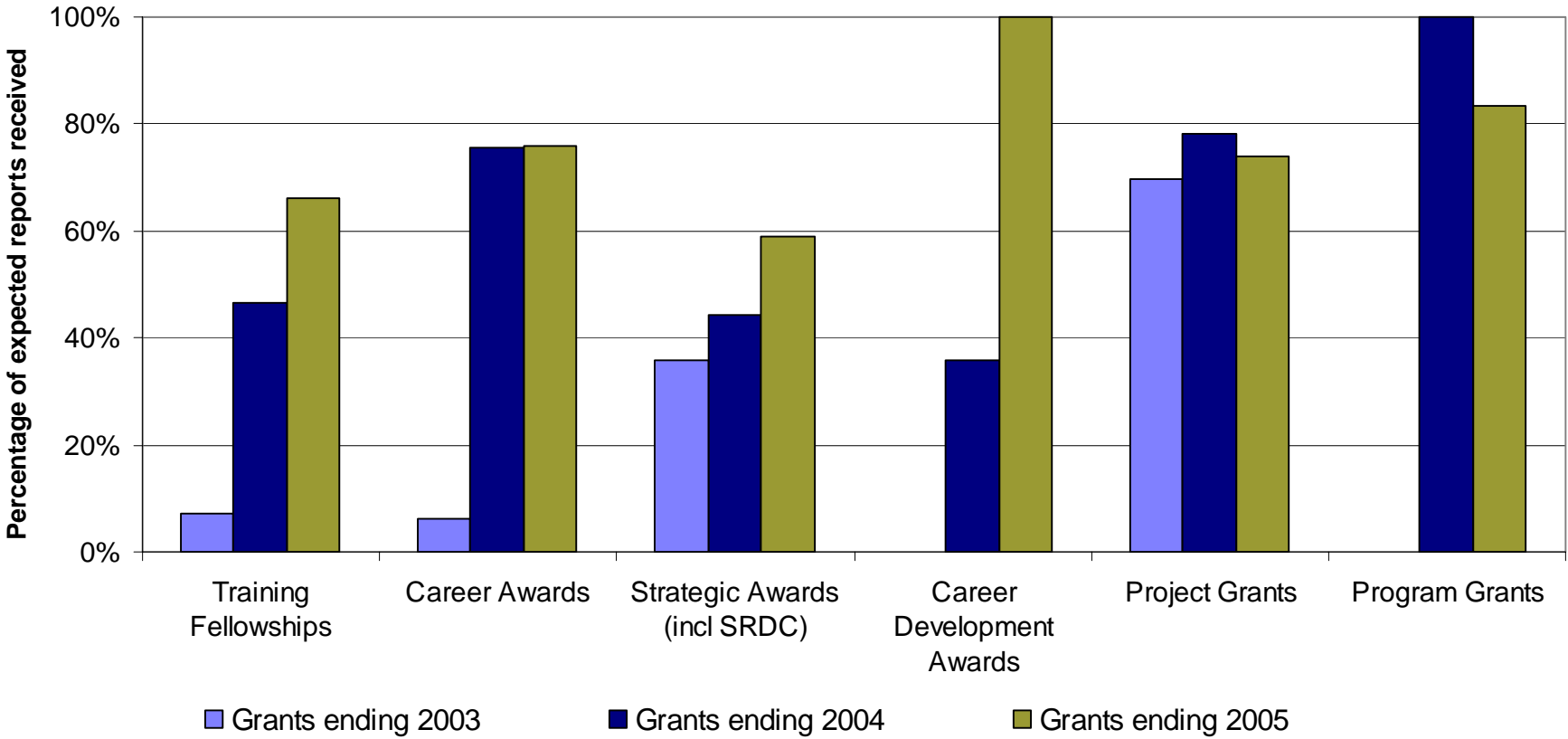


FINAL REPORTS EXPECTED AND RECEIVED

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The number of final reports received and the percentage of total expected have both risen significantly for all grant types from 2003.

Percentage of expected final reports that have been received 2003 - 2005





FINAL REPORTS EXPECTED AND RECEIVED

N H M R C

The number of final reports expected and received 2003 - 2005

Grant Type	End year 2003			End year 2004			End year 2005			Total 2003 - 2005		
	Expected	Received	% received	Expected	Received	% received	Expected	Received	% received	Expected	Received	% received
Program Grants	2	0	0%	6	6	100%	6	5	83%	14	11	79%
Project Grants	444	310	70%	442	346	78%	439	325	74%	1,325	981	74%
Career Awards	33	2	6%	57	43	75%	75	57	76%	165	102	62%
Strategic Awards (incl SRDC)	14	5	36%	18	8	44%	34	20	59%	66	33	50%
Training Fellowships	41	3	7%	58	27	47%	68	45	66%	167	75	45%
Career Development Awards	7	0	0%	14	5	36%	1	1	100%	22	6	27%
Grand Total	541	320	59%	595	435	73%	623	453	73%	1,759	1,208	69%

Notes: Scholarships, CARG, block funding and infrastructure grants are excluded. Final reports received in an incorrect or unusable format are also excluded.



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DETAILS OF FINAL REPORTS INCLUDED IN THIS ANALYSIS



DETAILS OF FINAL REPORTS IN THIS ANALYSIS

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Number of grants included in this analysis by grant type:

End year:	2003	2004	2005	Grand Total	% of Total
Project Grants	310	346	325	981	81.2%
Career Awards	2	43	57	102	8.4%
Training Fellowships	3	27	45	75	6.2%
Strategic Awards (incl SRDC)	5	8	20	33	2.7%
Program Grants	0	6	5	11	0.9%
Career Development Awards	0	5	1	6	0.5%
Grand Total	320	435	453	1208	100.0%



DETAILS OF FINAL REPORTS IN THIS ANALYSIS

N H M R C

NHMRC spent \$460.1 million on the 1208 grants included in this analysis. However, the proportional expenditure by grant type is not typical of all NHMRC expenditure.

End Year:	2003 (\$m)	2004 (\$m)	2005 (\$m)	Grand Total (\$m)	% of Total
Project Grants	94.5	117.3	118.1	329.9	71.7%
Program Grants	0.0	31.3	23.9	55.2	12.0%
Career Awards	0.7	16.7	28.8	46.2	10.0%
Training Fellowships	0.5	6.4	12.3	19.2	4.2%
Strategic Awards (incl SRDC)	1.1	4.7	2.0	7.8	1.7%
Career Development Awards	0.0	1.5	0.3	1.8	0.4%
Grand Total	96.8	177.9	185.4	460.1	100.0%



DETAILS OF FINAL REPORTS IN THIS ANALYSIS

N H M R C

Number of grants by broad research area

End Year:	2003	2004	2005	Grand Total	% of Total
Basic Science	188	253	276	717	59.4%
Clinical Medicine and Science	93	123	119	335	27.7%
Health Services Research	4	17	22	43	3.6%
Preventive Medicine	5	7	8	20	1.7%
Public Health	30	35	28	93	7.7%
Grand Total	320	435	453	1208	100.0%

The grants included cover all five broad research areas, with proportions comparable to all NHMRC research expenditure.



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COLLABORATIONS AND LEVERAGED FUNDS

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The majority of respondents reported collaborations (65%, 782/1208).

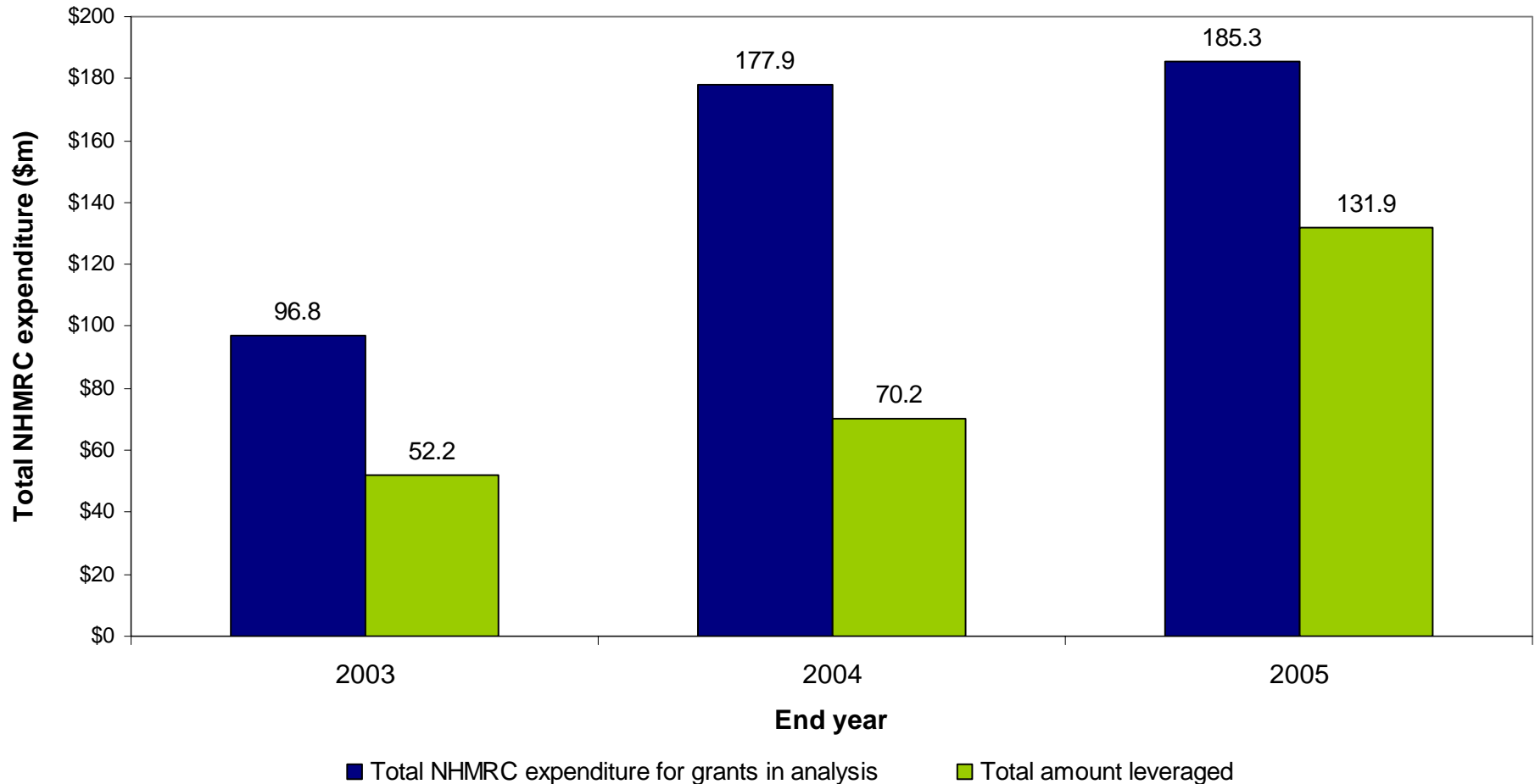
The total reported leveraged funding was \$254.4 million. Comparing to the \$460.0 million spent by NHMRC to fund these grants gives a 55% return.

End Yr	# of grants	# that included collaborations	Total # of collaborations	Total budget (\$m)	Amount Leveraged (\$m)	Leverage rate
2003	320	210 (66%)	362	96.8	52.3	54%
2004	435	302 (69%)	921	177.9	70.2	39%
2005	453	270 (60%)	852	185.3	131.9	71%
Grand Total	1208	782 (65%)	2135	460.0	254.4	55%

COLLABORATIONS AND LEVERAGED FUNDS

N H M R C

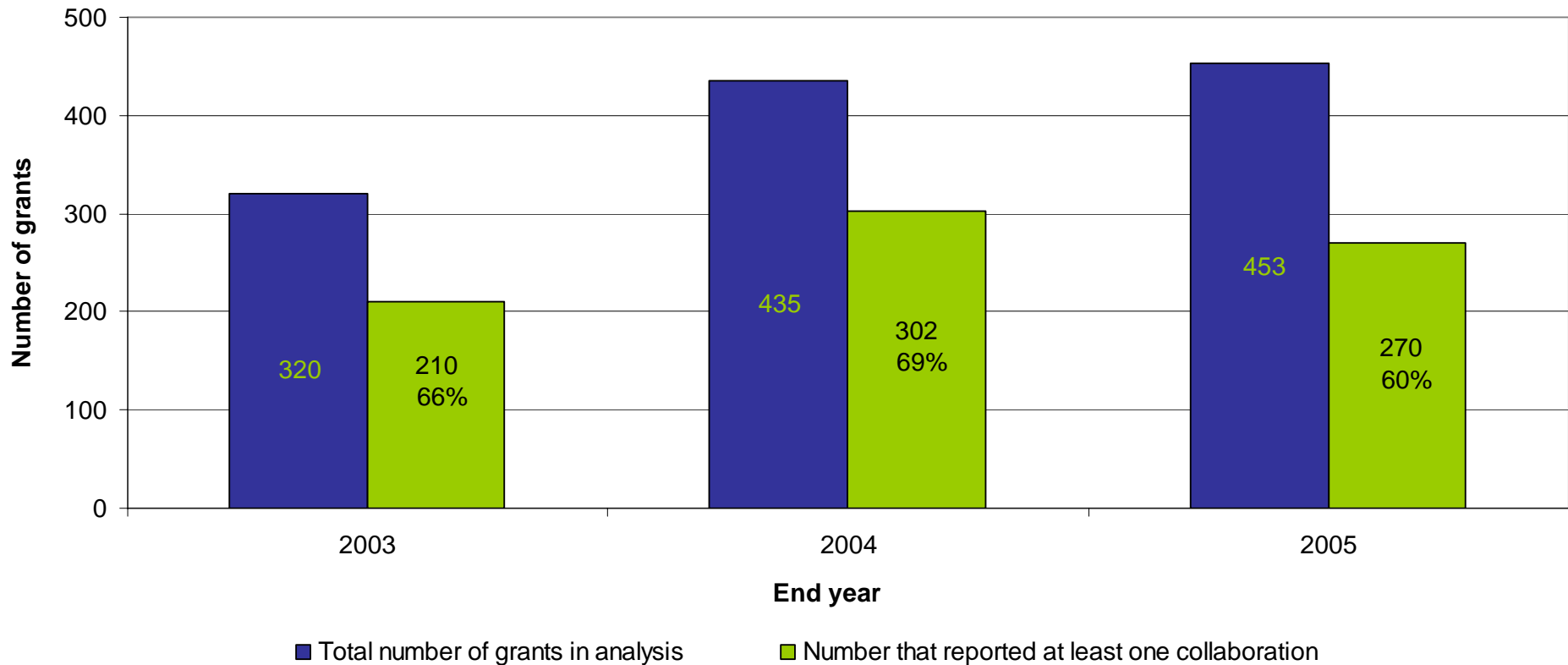
NHMRC expenditure and and additional leveraged funding (\$m)



COLLABORATIONS AND LEVERAGED FUNDS

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Number of grants that include at least one collaboration



COLLABORATIONS AND LEVERAGED FUNDS

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In dollar terms, project grants leveraged the most money, however proportionally career awards and program grants had the biggest return.

Grant Type	# of grants	# that included collaborations	Total # of collaborations	Total amount funded (\$m)	Total amount leveraged (\$m)	Leverage rate
Career Awards	102	69 (68%)	363	46.2	62.7	136%
Program Grants	11	11 (100%)	88	55.1	48.5	88%
Strategic Awards (incl SRDC)	33	23 (70%)	56	7.7	5.9	77%
Career Development Awards	6	5 (83%)	22	1.8	1.2	65%
Project Grants	981	629 (64%)	1436	329.9	133.5	40%
Training Fellowships	75	45 (60%)	170	19.2	2.6	14%
Grand Total	1208	782 (65%)	2135	460.1	254.4	55%

COLLABORATIONS AND LEVERAGED FUNDS

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Grants funded under a broad research area of 'Preventive medicine' leveraged 3.7 times the amount that NHMRC spent on them. This is almost entirely due to one large collaboration in that broad research area.

Broad Research Area	# of grants	# that included collaborations	Total # of collaborations	Total amount funded (\$m)	Total amount leveraged (\$m)	Leverage rate
Basic Science	717	459 (64%)	1229	282.8	109.6	39%
Clinical Medicine and Science	335	229 (68%)	621	126.4	107.5	85%
Public Health	93	57 (61%)	187	37.8	20.3	54%
Preventive Medicine	20	16 (80%)	32	4.4	16.7	380%
Health Services Research	43	21 (49%)	66	8.5	0.3	4%
Grand Total	1208	782 (65%)	2135	460.1	254.4	55%

LEVERAGED FUNDING BY COLLABORATION TYPE

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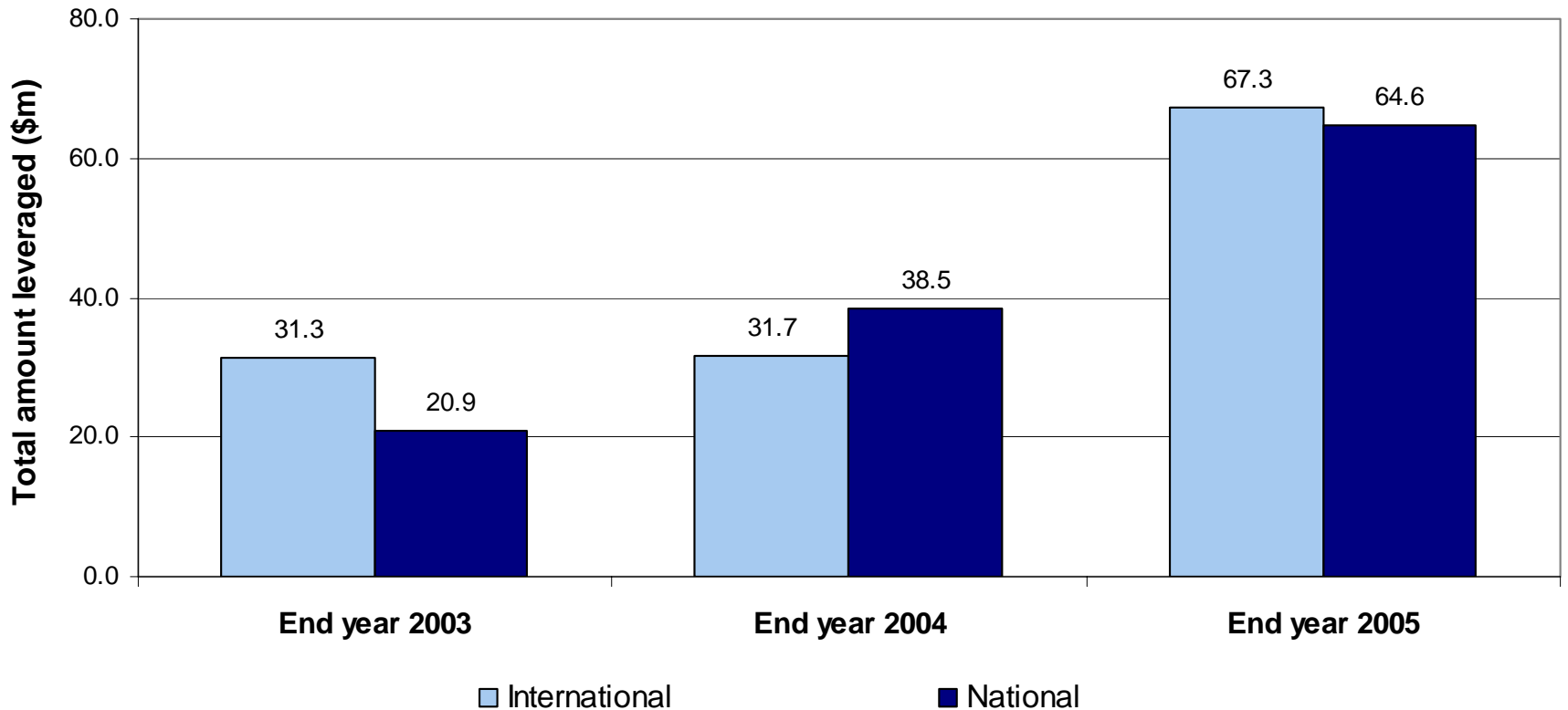
Collaboration Type	End yr 2003	End yr 2004	End yr 2005	Grand Total
Government research funding	\$ 31,297,621	\$ 13,840,877	\$ 11,454,400	\$ 56,592,898
CRCs	\$ 5,650,072	\$ 3,633,348	\$ 31,890,000	\$ 41,173,420
Industry	\$ 2,341,912	\$ 23,388,220	\$ 14,526,968	\$ 40,257,100
Academic Institutions	\$ 1,583,427	\$ 3,560,254	\$ 23,995,752	\$ 29,139,432
Philanthropic funding organisations (eg Wellcome)	\$ 4,815,433	\$ 6,272,109	\$ 16,838,111	\$ 27,925,653
Federal Government policy makers	\$ 2,130,000	\$ 3,850,000	\$ 20,100,000	\$ 26,080,000
Medical Research Institutes	\$ 1,966,413	\$ 2,329,700	\$ 5,763,752	\$ 10,059,865
International bodies (WHO etc)	\$ 390,000	\$ 7,186,124	\$ -	\$ 7,576,124
Non government organisations	\$ 574,000	\$ 1,368,302	\$ 4,431,668	\$ 6,373,970
State Government policy makers	\$ 1,270,000	\$ 1,552,118	\$ 294,343	\$ 3,116,461
Hospitals and Health Centres	\$ 80,000	\$ 618,029	\$ 1,223,930	\$ 1,921,959
Clinicians	\$ 20,000	\$ 525,000	\$ 1,350,000	\$ 1,895,000
Consumer or patient support groups	\$ 22,000	\$ 1,108,682	\$ 120,000	\$ 1,250,682
Professional Bodies	\$ -	\$ 674,353	\$ 3,000	\$ 677,353
ATSI focus or health research priority groups	\$ 75,000	\$ 190,000	\$ -	\$ 265,000
Not specified	\$ 70,000	\$ 20,000	\$ -	\$ 90,000
Local Government policy makers	\$ -	\$ 75,000	\$ -	\$ 75,000
Health service administrators	\$ -	\$ 20,000	\$ -	\$ 20,000
Grand Total	\$ 52,285,878	\$ 70,212,116	\$ 131,991,923	\$ 254,489,917



COLLABORATIONS

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Total reported amount leveraged (\$m)



COLLABORATIONS

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Number of award involving collaborations:

National	532 of 1208	44%
International	442 of 1208	37%
Total	782 of 1208	65%

Total amount leveraged:

	End year 2003	End year 2004	End year 2005	Grand Total
International	\$ 31,354,691	\$ 31,691,923	\$ 67,320,908	\$ 130,367,522
National	\$ 20,931,187	\$ 38,520,193	\$ 64,671,015	\$ 124,122,395
Total	\$ 52,285,878	\$ 70,212,116	\$ 131,991,923	\$ 254,489,917



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COMMERCIALISATION

COMMERCIALISATION

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Overall 27% of respondents reported that their research results demonstrated commercial potential and/or commercial results (331/1208).

Percentage of respondents who reported commercial actions arising from their research

Grant Type	End year 2003	End year 2004	End year 2005
Career Awards	100%	51%	54%
Career Development Awards	-	40%	100%
Program Grants	-	67%	60%
Project Grants	23%	26%	26%
Strategic Awards (incl SRDC)	0%	25%	5%
Training Fellowships	33%	22%	20%
Grand Total	23%	29%	29%

COMMERCIALISATION

N H M R C

Reported commercial actions arising out of the research includes 29 start up companies, 11 reports of sales in products, and 3 IPO listings.

Commercial Potential Type	End year 2003	End year 2004	End year 2005	Grand Total
Patents assigned or licenced	6	26	25	57
Interest from commercial party	4	17	28	49
Development of therapeutic value	2	21	22	45
Start up company formed	2	14	13	29
Interest from the institutions commercial arm	1	11	16	28
Joint ventures with commercial interests	1	11	8	20
Successful clinical trials	0	5	6	11
Development of Scientific Services	0	6	4	10
Sales in products and therapies	0	3	4	7
Revenue generated from royalties	1	3	0	4
IPO Listing	0	1	2	3
Licence options converted	0	2	0	2



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PUBLICATIONS



PUBLICATIONS

N H M R C

Out of the 1208 final reports included in this sample:

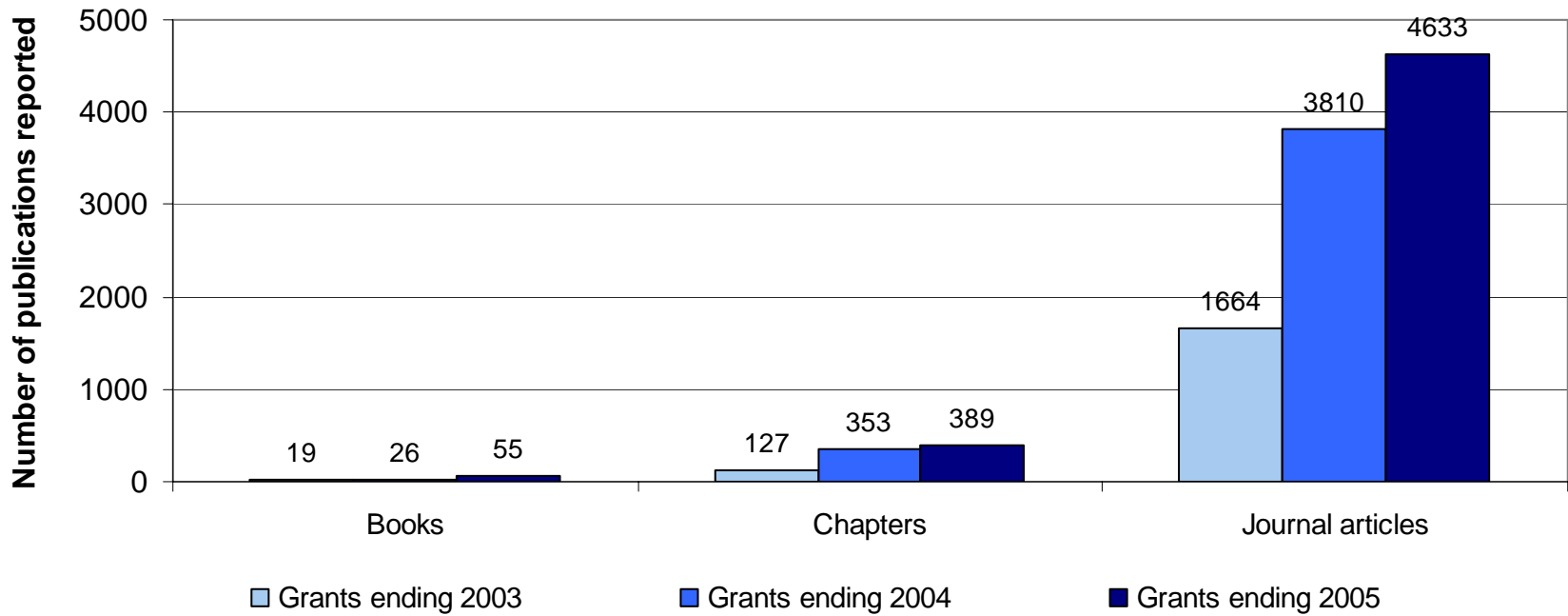
- 11076 publications were produced, including:
 - 100 books
 - 869 chapters
 - 10107 journal articles
- In addition, 5074 conference publications were reported.
- 12% (147/1208) of grants reported no publications (journal, chapter or book), as at six months after the completion of the grant. The majority are projects, but there are also 5 research fellowships and one new program, and a few training awards and SRDC awards. These grants can be targeted in a follow on survey.
- There is a degree of double counting in these numbers that has yet to be worked out. It may be as high as 10- 15%



PUBLICATIONS

End year	Books	Chapters	Journal articles
2003	19	127	1664
2004	26	353	3810
2005	55	389	4633
Grand Total	100	869	10107

Publication output reported on final reports



There is a degree of double counting in these numbers that has yet to be worked out. It may be as high as 10- 15%

PUBLICATIONS

N H M R C

Grant Type	Total number of grants	Total budget (\$m)	Number of publications	Outputs per grant
Project Grants	981	329.9	5532	5.6
Career Awards	102	46.2	3467	34.0
Training Fellowships	75	19.2	641	8.5
Strategic Awards (incl SRDC)	33	7.8	47	1.4
Program Grants	11	55.2	1286	116.9
Career Development Awards	6	1.8	103	17.2
Grand Total	1208	460.1	11076	9.2

Includes publications as reported in final reports submitted within six months of the research project being completed. Includes books, book chapters and journal articles. Conference publications are excluded.

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RESEARCH TRAINING

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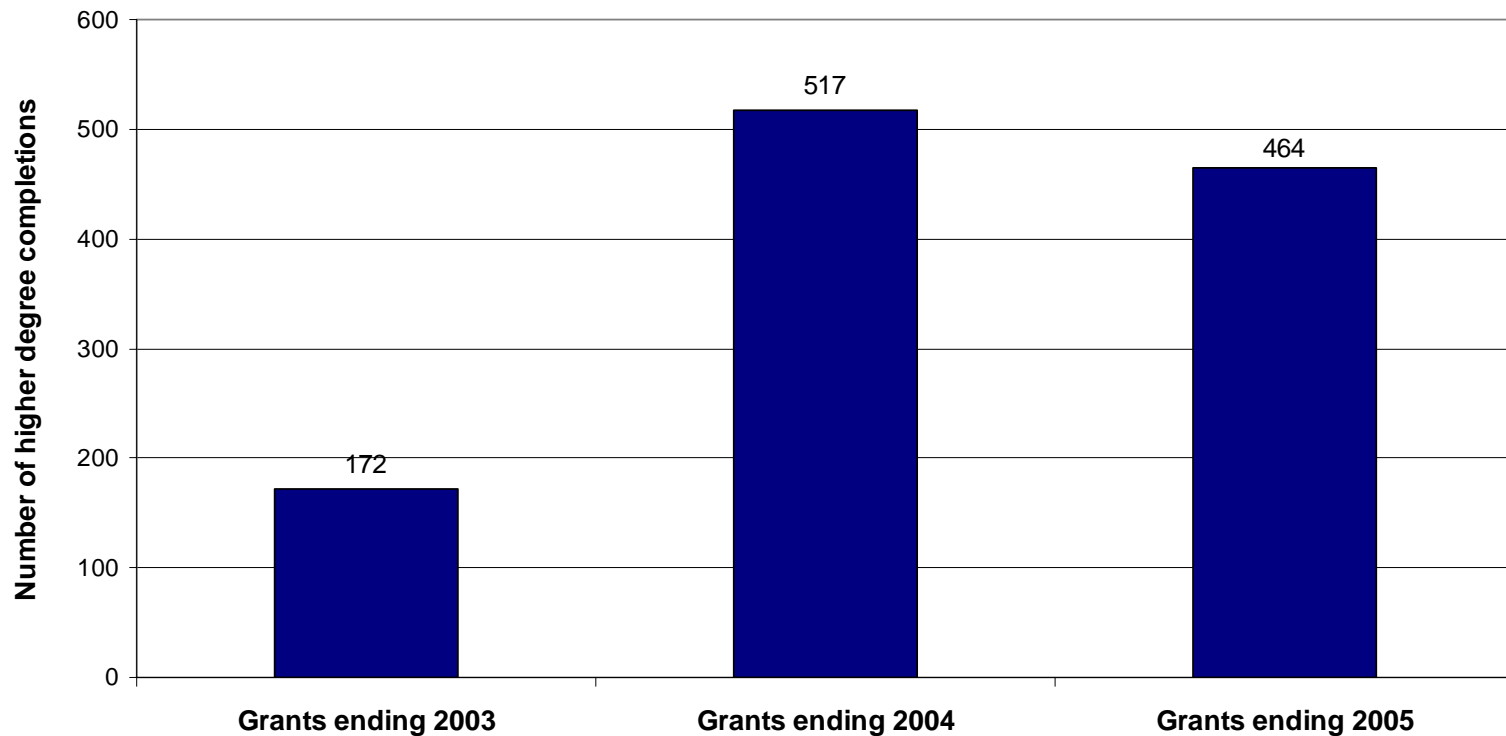


RESEARCH TRAINING – HIGHER DEGREE COMPLETIONS

N H M R C

1153 higher degree completions were reported from the 1208 reports included in this analysis.

Number of higher degree completions reported on final reports



RESEARCH TRAINING – HIGHER DEGREE COMPLETIONS

N H M R C

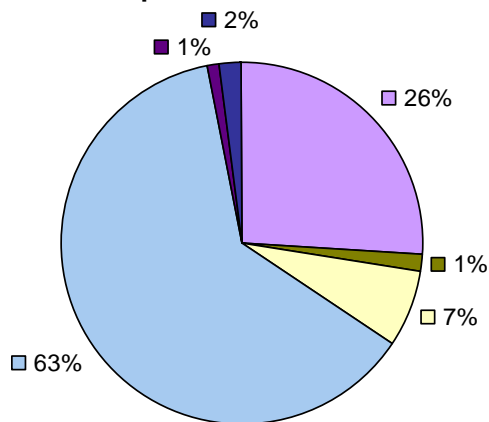
Number of higher degree completions reported.

Grant Type	End year 2003	End year 2004	End year 2005	Grand Total
Project Grants	161	306	256	723
Career Awards	6	131	164	301
Program Grants	0	56	24	80
Training Fellowships	1	7	13	21
Career Development Awards	0	13	2	15
Strategic Awards (incl SRDC)	4	4	5	13
Grand Total	172	517	464	1153

RESEARCH TRAINING – HIGHER DEGREE COMPLETIONS

N H M R C

Total number of higher degree completions 2003 - 2005



- Career Awards
- Career Development Awards
- Program Grants
- Project Grants
- Strategic Awards (incl SRDC)
- Training Fellowships

		Grants ending 2003	Grants ending 2004	Grants ending 2005	Total
Project Grants	# of grants	310	346	325	981
	# of higher degree completions	161	306	256	723
Career Awards	# of grants	2	43	57	102
	# of higher degree completions	6	131	164	301
Program Grants	# of grants	0	6	5	11
	# of higher degree completions	0	56	24	80
Training Fellowships	# of grants	3	27	45	75
	# of higher degree completions	1	7	13	21
Career Development Awards	# of grants	0	5	1	6
	# of higher degree completions	0	13	2	15
Strategic Awards (incl SRDC)	# of grants	5	8	20	33
	# of higher degree completions	4	4	5	13
Grand Total	# of grants	320	435	453	1208
	# of higher degree completions	172	517	464	1153



N H M R C

DISSEMINATION OF RESULTS



DISSEMINATION OF RESULTS

N H M R C

Have you undertaken activities to promote awareness of the scientific results arising from your research?

67% (810/1208) have undertaken activities to promote awareness of the scientific results arising from their research

End year	Yes	No	Not answered	Grand Total	% Yes
2003	130	59	131	320	41%
2004	326	98	11	435	75%
2005	354	96	3	453	78%
Grand Total	810	253	145	1208	67%



N H M R C

DISSEMINATION OF RESULTS

Public Health and Health Services research grants were more likely to promote awareness of scientific results.

Broad Research Area	Yes	No	Not answered	Grand Total	% Yes
Basic Science	476	143	98	717	66%
Clinical Medicine and Science	218	77	40	335	65%
Health Services Research	31	11	1	43	72%
Preventive Medicine	13	7	0	20	65%
Public Health	72	15	6	93	77%
Grand Total	810	253	145	1208	67%



DISSEMINATION OF RESULTS

N H M R C

Career awards (research fellowships) were the most likely to promote awareness of scientific results.

Grant Type	Yes	No	Not answered	Grand Total	% Yes
Career Awards	90	12	0	102	88%
Career Development Awards	5	1	0	6	83%
Program Grants	9	2	0	11	82%
Training Fellowships	61	13	1	75	81%
Project Grants	626	214	141	981	64%
Strategic Awards (incl SRDC)	19	11	3	33	58%
Grand Total	810	253	145	1208	67%



MEDIA ATTENTION

N H M R C

Did this research attract media attention?

31% (370/1208) attracted media attention. The three year trend show that grants that ended in 2005 were more successful in attracting media attention than those that ended in 2003 or 2004.

End year	Yes	No	Not Answered	Grand Total	% Yes
2003	89	212	19	320	28%
2004	122	301	12	435	28%
2005	159	293	1	453	35%
Grand Total	370	806	32	1208	31%



MEDIA ATTENTION

N H M R C

Did this research attract media attention?

Program grants and career awards (Research Fellowships) were far more likely to attract media attention.

Grant Type	Yes	No	Not Answered	Grand Total	% Yes
Program Grants	8	2	1	11	73%
Career Awards	52	45	5	102	51%
Strategic Awards (incl SRDC)	13	19	1	33	39%
Career Development Awards	2	4	0	6	33%
Project Grants	277	682	22	981	28%
Training Fellowships	18	54	3	75	24%
Grand Total	370	806	32	1208	31%



MEDIA ATTENTION

Did this research attract media attention?

Preventive medicine and public health research were far more likely to attract media attention than basic science or clinical medicine, however this may be due to the lower numbers of reports included.

Broad Research Area	Yes	No	Not Answered	Grand Total	% Yes
Preventive Medicine	12	8	0	20	60%
Public Health	48	43	2	93	52%
Health Services Research	17	25	1	43	40%
Clinical Medicine and Science	118	208	9	335	35%
Basic Science	175	522	20	717	24%
Grand Total	370	806	32	1208	31%



N H M R C

THE END

Prepared by the Evaluation and Reporting Section, NHMRC

More to follow...