



AUSTRALIAN BUREAU OF STATISTICS

# Construction Industry Survey

**Private Sector  
Construction Establishments,  
Summary of Operations,  
Australia,  
1984-85**



Catalogue Number 8771.0

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**CONSTRUCTION INDUSTRY SURVEY :  
PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS,  
SUMMARY OF OPERATIONS, AUSTRALIA, 1984-85**

**(Previously : Private Sector Construction Establishments, Summary of Operations by Industry  
Class, Australia and State, 1978-79. Catalogue No. 8713.0)**

**IAN CASTLES**  
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## MAIN FEATURES

**NOTE:** In this publication action has been taken to adjust for the undercoverage in 1984-85 private sector construction industry statistics noted in the CIS preliminary publication (Catalogue No. 8770.0) by the incorporation of results from a supplementary survey of construction establishments selected from taxation sources. Accordingly there are some significant differences between preliminary and final survey estimates, in particular, the number of private sector construction establishments.

There were 105,012 private sector construction establishments operating in Australia during 1984-85. These establishments had an employment of 322,723, a total turnover of \$24,949 million and capital expenditure (less disposals) of \$617 million.

The major contributors to private sector construction industry employment were house construction (46,781), non-residential building (31,942), electrical work (30,348), plumbing (29,701) and non-building construction (other than roads and bridges) (23,141).

The major contributors to private sector construction industry turnover were non-residential building construction (\$5,717 million), house construction (\$5,107 million), non-building construction (other than roads and bridges) (\$2,499 million) with the total special trade construction component contributing \$9,140 million.

For capital expenditure (less disposal) the major components were non-residential building construction (\$99 million), house construction (\$79 million), non-building construction (other than roads and bridges) (\$73 million) and earthmoving and dredging (\$66 million).

As at 30 June 1985 there were 230,378 on-site employees in the private sector construction industry. The major on-site occupations were carpenters (44,507), labourers (27,025), plumbers, drainers etc (24,327), electricians (21,740) and supervisors (17,459).

During 1984-85 the total value of private sector construction work undertaken was \$24,630 million. The major components of the work were new houses (\$5,793 million), offices (\$2,698 million), alterations and additions to houses (\$1,920 million), roads, highways and related structures (\$1,613 million), new other residential buildings (\$1,390 million), and factories (\$1,346 million).

## EXPLANATORY NOTES

### Introduction

This publication contains final estimates, in summary, from the Construction Industry Survey (CIS) of private sector construction establishments conducted in respect of 1984-85. Detailed estimates from the survey are expected to be published in a few months time. The previous CIS was conducted in respect of 1978-79.

2. The CIS was conducted as a component of the ABS's integrated economic statistics programme. This programme has been developed so that data from each industry sector conforms to the same basic conceptual standards thereby allowing comparative analysis between and across different industry sectors. The results of this survey are therefore comparable with economic data collections undertaken annually for the mining, manufacturing, and electricity and gas industries and periodically for the transport, retail trade, wholesale trade and selected services industries.

3. This publication excludes construction activity undertaken by the public sector; data for this sector has been released in Catalogue No. 8775.0

### The concept of industry

4. The concept of an industry is fundamental to a correct understanding of the results of this survey. In the development of official statistics on an industry basis, the ABS has used as its conceptual framework the "A System of National Accounts" (SNA) developed by the Statistical Office of the United Nations. The SNA framework provides for the systematic delineation and classification of units of production in a conceptually consistent manner such that each unit of production is uniquely identified and classified to a specific industry without duplication or omission.

5. The definition of an industry adopted by the ABS is one comprising all those units of production (establishments) PREDOMINANTLY engaged in activities defined as being primary to that industry. The actual range of activities primary to each industry is set out in Volume I of the *Australian Standard Industrial Classification (ASIC) 1983* (Catalogue No. 1201.0).

6. The structure of the ASIC comprises four levels, namely Divisions (the broadest level), Subdivisions, Groups and Classes. A description of the four levels of ASIC for the construction industry (ASIC Division E) is shown on page 30.

7. It should be noted that the TOTAL activity of each unit is included as part of the production of the industry to which it has been classified on the basis of PREDOMINANT activity. For example, an establishment which predominantly carries out house building is classified to ASIC Class 4111, regardless of any other business activities the establishment may have.

### Scope

8. The scope of the survey includes all PRIVATE SECTOR ESTABLISHMENTS PREDOMINANTLY engaged in construction activities, defined as Division E of the ASIC.

9. Owner-builders (i.e. private individuals erecting or extending buildings for their own (private) use) are considered to be predominantly engaged in activities outside the construction industry and therefore do not

form part of ASIC Division E. However, construction activity undertaken by owner-builders is included each quarter in *Building Activity, Australia* (Catalogue No. 8752.0).

#### Coverage

10. The estimates in this publication relate to construction establishments recorded on the ABS Register of Businesses and the construction records on Australian Taxation Office files, which have been obtained by the ABS under Section 16 (4) of the Income Tax Assessment Act. The estimates in this publication also include data relating to separately located administrative offices and ancillary units (such as head offices and storage premises) serving the construction establishments.

#### Methodology

11. There were two parts to the CIS; a survey based on the ABS Register of Businesses and a supplementary survey based on records obtained from the Australian Taxation Office.

12. The Register based collection was conducted by:

- a complete enumeration by mail of larger single establishment construction enterprises and construction establishments of multi establishment enterprises; and
- a personal interview of a sample of the remaining small single establishment construction enterprises.

13. A sample of construction records was obtained from the Australian Taxation Office and those records not recorded on the ABS Register of Businesses were included in a supplementary survey. This survey was conducted by a mail and personal interview approach.

#### Reliability of the estimates

14. As mentioned in paragraph 11 of the preliminary CIS publication (Catalogue No. 8770.0) the supplementary survey of the construction industry was conducted to overcome coverage deficiencies with the 1984-85 collection. The supplementary survey, which was based on taxation sources, identified an additional 41,100 establishments with a total turnover of \$2,616 million.

15. It should not be assumed that differences between preliminary estimates and estimates contained in this publication relate solely to data from the supplementary survey. The preliminary estimates were based on approximately 65% of returns processed at the time, whereas final estimates are the result of complete processing and further amendment to preliminary figures, as well as the inclusion of estimates from the supplementary survey. In addition, care should also be taken if comparisons are to be made between the 1978-79 CIS and the 1984-85 CIS because of coverage anomalies in the 1978-79 collection.

16. Users of CIS statistics should note that comparisons with data published in other ABS publications may be misleading. This is because the results in this publication

and other publications such as *Building Activity, Australia* (Catalogue No. 8752.0), *Construction (Other than Building) Activity, Australia* (Catalogue No. 8761.0), and *Survey of Employment and Earnings* (Catalogue No. 6248.0) are based on different statistical methods and techniques. For example:

- (a) The CIS is based on a sample of construction records from the ABS Register of Businesses and from the Australian Taxation Office whereas the Building Activity Survey is based on a sample of jobs from building approvals. The Survey of Employment and Earnings only uses the ABS Register of Businesses as the source for its sample.
- (b) State statistics produced from the CIS are based on the State of location of the construction establishments which is not necessarily the same State where the building activity was undertaken. Building Activity Survey statistics relate to the State of that building activity (see p 30 for more details), and
- (c) In the CIS, coding data to the type of structure is undertaken by the respondent whereas in the Building Activity and Construction (Other than Building) Surveys the ABS carries out this coding based on information supplied. Users should not compare Building Activity and Construction (Other than Building) Survey results with data contained in Table 14 of this publication. Table 14 data are the sum of prime contract, sub-contract, speculative work and work done for own use rental or lease on construction projects, whereas Building Activity and Construction (Other than Building) data measures the unduplicated value of construction work done (i.e. it excludes the value of sub-contracts).

17. Since the estimates are derived from information obtained from the sample of construction establishments they are also subject to sampling error; that is, they may differ from the figures that would have been obtained if information for all construction establishments had been included in the survey. A measure of the likely difference is given by the relative standard error for each estimate. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all construction establishments had been included, and about 19 chances in 20 that the difference will be less than two standard errors. Relative standard errors of the estimates are shown in Table 15. For example, turnover for the private sector construction industry for Australia is estimated to be \$24,949 million with a standard error of 0.7 per cent, i.e. \$175 million; there are two chances in three that a comparable complete collection would have given a figure within the range of \$24,774 million to \$25,124 million, and 19 chances in 20 that the figure would have been within the range of \$24,599 million to \$25,299 million.

18. Some of the standard errors associated with the estimates contained in this publication are high, i.e. greater than 50 per cent. These estimates are indicated by "•". In this situation it is important for users to check that the estimates are reliable enough for the particular purpose for which they require the statistics. It is left to the user to exercise the necessary caution in using the estimates in this publication.

19. In addition to the sampling errors referred to above, other inaccuracies may occur because of inadequacies in the source of information, imperfections in answers provided by respondents, and errors made in the coding and processing of data. Inaccuracies of this kind are referred to as non-sampling error, and may occur in any enumeration whether it be a full count or only a sample. Every effort is made to reduce the non-sampling error to a minimum by employing careful design of questionnaires, trying to obtain responses from all selected establishments, and efficient operating procedures.

#### Definitions

20. Definitions of the terms used in this publication are shown on pages 30 to 33.

#### Unpublished data and related publications

21. The ABS also make available unpublished CIS data. Where it is not practicable to do so over the telephone a charge may be levied depending on the size of data requested and the medium on which they are provided.

22. In addition to the preliminary publication already released (Catalogue No. 8770.0) users may also wish to refer to the following CIS publications:

*Construction Industry Survey: Private Sector Construction Establishments, States, Territories and Australia, 1984-85 (8772.0 to 8772.8); (\$2.40, \$3.30 incl. postage)*

These publications will present final estimates in detail for a wide range of data on the construction industry for Australia and each State and Territory. The results shown in these publications will include financial, employment, occupation and activity data classified by ASIC class.

It is expected that these publications will be released in the near future.

*Public Sector Construction Activity Survey, Australia, 1984-85 (8775.0).*

This publication shows details of construction and maintenance activities undertaken in 1984-85 by Federal, State and Local Government Authorities.

23. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia (1101.0)*. The ABS also issues, on Tuesdays and Fridays, a *Publications Advice (1105.0)* which lists publications to be released in the next few days. The *Catalogue* and *Publications Advice* are available from any ABS office.

#### Symbols and other usages:

- nil or rounded to zero
- n.p. not available for publication but included in totals where applicable
- n.e.c. not elsewhere classified
- n.e.i. not elsewhere included
  - high relative standard error; refer to paragraph 18

24. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

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TABLE 1. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, AUSTRALIA, 1984-85

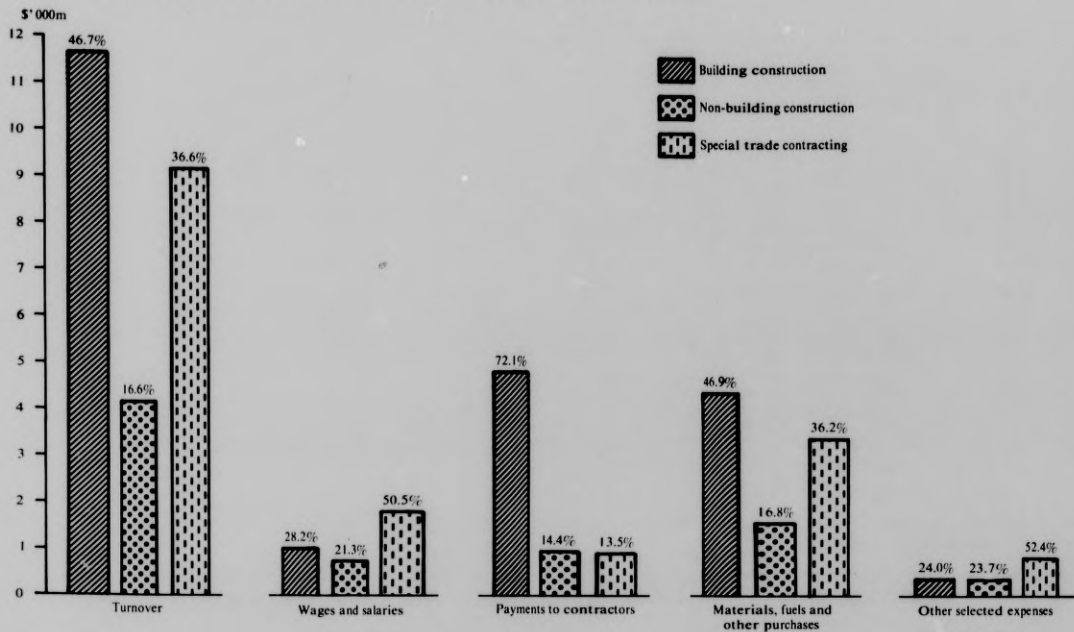
ASIC Code	Description	Establishments operating			Average employment over whole year			Employment at 30 June 1985			Employees at 30 June 1985			Wages and salaries paid to		
		During the year	At 30 June 1985										On-site employees	Off-site employees	Total employees	
		No.	No.	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	\$'000	\$'000	\$'000	
4111	House construction	19,736	19,438	32,301	14,480	46,781	32,870	14,674	47,544	17,200	5,687	22,887	190,673	118,345	309,018	
4112	Residential building construction n.e.c.	1,636	1,536	3,583	1,160	4,742	3,744	1,177	4,921	2,795	618	3,413	40,771	14,575	55,346	
4113	Non-residential building construction	3,146	2,987	28,130	3,813	31,942	28,025	3,911	31,935	26,411	3,117	29,527	491,127	158,842	649,969	
411	Total building construction	24,518	23,961	64,013	19,453	83,466	64,639	19,762	84,400	46,406	9,421	55,827	722,571	291,762	1,014,333	
4121	Road and bridge construction	861	844	10,748	1,126	11,874	10,933	1,144	12,077	10,492	871	11,363	218,828	52,891	271,719	
4122	Non-building construction n.e.c.	2,582	2,519	20,243	2,898	23,141	19,968	2,871	22,839	18,441	2,065	20,506	365,720	129,126	494,845	
412	Total non-building construction	3,443	3,362	30,990	4,024	35,014	30,901	4,015	34,915	28,934	2,936	31,869	584,547	182,017	766,564	
41	Total general construction	27,961	27,323	95,004	23,477	118,481	95,540	23,776	119,316	75,340	12,357	87,697	1,307,118	473,779	1,780,897	
4231	Concreting	4,981	4,459	10,632	3,359	13,992	10,825	3,429	14,254	7,033	1,273	8,306	123,685	21,188	144,873	
4232	Bricklaying	9,243	8,912	14,760	4,419	19,179	14,866	4,439	19,305	5,350	610	5,960	74,539	4,881	79,420	
4233	Roof tiling	1,086	1,035	2,246	645	2,891	2,250	652	2,902	1,496	284	1,780	21,879	5,120	26,999	
4234	Floor and wall tiling	3,057	3,029	3,657	1,366	5,022	3,611	1,364	4,974	834	255	1,089	10,103	2,473	12,575	
4241	Structural steel erection	1,355	1,206	4,278	1,086	5,364	4,312	1,081	5,393	3,336	361	3,697	66,652	11,035	77,687	
4242	Plumbing	10,595	10,396	22,040	7,661	29,701	22,259	7,738	29,997	13,921	2,930	16,851	217,018	45,094	262,112	
4243	Electrical work	8,697	8,561	23,715	6,632	30,348	24,035	6,691	30,726	17,708	2,812	20,520	305,210	68,306	373,516	
4244	Heating and air conditioning	1,203	1,177	7,598	1,391	8,989	7,843	1,392	9,234	7,329	1,057	8,386	96,947	52,695	149,642	
4245	Plastering and plaster fixing	5,306	4,551	8,377	2,674	11,051	8,371	2,692	11,063	4,287	797	5,084	65,932	15,957	81,888	
4246	Carpentry	11,270	10,528	15,993	5,094	21,088	16,247	5,072	21,318	5,551	606	6,157	85,999	8,701	94,700	
4247	Painting	10,206	9,840	16,477	5,450	21,928	16,527	5,482	22,009	6,753	1,252	8,006	104,331	18,469	122,800	
4248	Earthmoving and dredging	4,331	4,165	11,523	3,510	15,033	11,968	3,545	15,512	8,648	1,290	9,938	139,395	27,417	166,812	
4249	Special trades n.e.c.	5,721	5,607	15,036	4,621	19,657	15,360	4,633	20,193	11,485	1,985	13,470	160,696	62,506	223,203	
42	Total special trade construction	77,051	73,467	156,333	47,909	204,242	158,675	48,207	206,882	93,731	15,512	109,244	1,472,386	343,840	1,816,226	
41-42	Total construction	105,012	100,789	251,337	71,386	322,723	254,214	71,984	326,196	169,071	27,869	196,940	2,779,504	817,619	3,597,124	

TABLE 1. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, AUSTRALIA, 1984-85—continued  
(S' 000)

ASIC code	Description	Contract construction work done	Sales of speculative construction projects	Capital work done for own use, rental or lease	All other operating revenue	Turnover	Stocks at		Payments to contractors	Materials, fuels and other purchases	Other selected expenses	Total purchases and selected expenses	Value added	Fixed capital expenditure less disposals
							30 June 1984	30 June 1985						
4111	House construction	4,539,516	501,450	17,164	48,891	5,107,022	528,511	666,380	1,719,936	2,279,627	194,699	4,194,263	1,050,628	79,403
4112	Residential building construction n.e.c.	556,866	229,649	26,380	17,416	830,312	230,924	334,774	350,388	357,942	23,089	731,419	202,743	36,073
4113	Non-residential building construction	5,582,973	42,130	35,544	56,326	5,716,973	261,118	333,003	2,746,157	1,689,401	143,196	4,578,753	1,210,105	98,918
411	Total building construction	10,679,355	773,230	79,089	122,634	11,654,308	1,020,553	1,334,157	4,816,481	4,326,970	360,984	9,504,435	2,463,477	214,394
4121	Road and bridge construction	1,587,350	7,550	1,316	59,309	1,655,526	71,924	102,867	340,387	634,290	192,038	1,166,716	519,753	49,427
4122	Non-building construction n.e.c.	2,407,084	n.p.	n.p.	65,430	2,498,836	81,699	99,321	625,100	917,910	164,728	1,707,739	808,719	73,391
412	Total non-building construction	3,994,434	n.p.	n.p.	124,739	4,154,361	153,623	202,189	965,488	1,552,201	356,766	2,874,455	1,328,473	122,818
41	Total general construction	14,673,789	887,507	247,373	15,808,669	1,174,176	1,536,347	5,781,969	5,879,171	717,750	12,378,890	3,791,950	337,212	
4231	Concreting	813,791	(a)	8,414	823,723	11,049	14,908	90,260	351,027	65,440	506,728	320,855	21,353	
4232	Bricklaying	432,787	(a)	3,857	439,166	3,452	3,948	62,561	56,900	39,520	158,981	280,682	15,813	
4233	Roof tiling	163,749	(a)	1,972	165,756	5,037	5,678	17,115	72,408	14,149	103,672	62,725	3,097	
4234	Floor and wall tiling	123,515	(a)	4,063	127,589	1,267	1,832	12,773	31,749	14,020	58,543	69,611	3,859	
4241	Structural steel erection	234,979	(a)	2,601	237,586	7,664	13,036	26,065	67,780	20,826	114,670	128,289	3,723	
4242	Plumbing	1,335,736	(a)	18,873	1,357,167	37,203	44,735	106,173	558,820	96,736	761,730	602,969	34,287	
4243	Electrical work	1,436,506	(a)	32,305	1,470,041	59,561	67,764	50,913	663,529	77,434	791,877	686,367	28,501	
4244	Heating and air conditioning	721,880	(a)	18,882	741,066	36,396	46,323	60,615	408,286	28,824	497,725	253,248	7,439	
4245	Plastering and plaster fixing	557,660	(a)	17,909	576,652	8,957	10,231	100,922	229,514	32,664	363,100	214,826	12,311	
4246	Carpentry	563,379	(a)	6,771	573,016	9,206	13,932	58,426	146,308	50,184	254,918	322,824	31,440	
4247	Painting	630,226	(a)	7,788	638,537	8,164	10,348	87,826	136,302	51,282	275,409	365,311	26,617	
4248	Earthmoving and dredging	875,786	(a)	35,089	911,331	16,394	19,969	124,147	197,659	203,211	525,016	389,890	66,305	
4249	Special trades n.e.c.	1,022,378	(a)	54,530	1,078,435	38,004	40,308	103,225	421,287	95,314	619,826	460,913	25,157	
42	Total special trade construction	8,912,372	14,617	213,057	9,140,046	242,355	293,012	901,021	3,341,569	789,604	5,032,194	4,158,510	279,901	
41-42	Total construction	23,586,161	784,812	117,312	460,438	24,948,715	1,416,532	1,829,359	6,682,989	9,220,740	1,587,354	17,411,884	7,950,459	617,113

(a) Unreliable estimates suppressed because of very high relative standard errors.

1984-85 CONSTRUCTION INDUSTRY SURVEY : SELECTED VARIABLES BY INDUSTRY, AUSTRALIA



**TABLE 2. CONSTRUCTION ESTABLISHMENTS : SELECTED ITEMS OF DATA BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85**

ASIC Code	Description	Establishments operating		Average employment over whole year			Employment at 30 June 1985			Employees at 30 June 1985			Wages and salaries paid to		
		During the year	At 30 June 1985	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	On-site employees	Off-site employees	Total employees
4111	House construction	6,168	6,080	9,813	4,268	14,081	9,905	4,319	14,224	5,180	1,933	7,113	61,818	38,659	100,477
4112	Residential building construction n.e.c.	478	470	1,407	324	1,731	1,474	336	1,810	1,210	225	1,435	17,568	5,674	23,242
4113	Non-residential building construction	968	961	10,203	1,270	11,473	9,381	1,289	10,669	8,942	1,101	10,043	176,899	58,322	235,221
411	<i>Total building construction</i>	<i>7,613</i>	<i>7,510</i>	<i>21,423</i>	<i>5,862</i>	<i>27,286</i>	<i>20,759</i>	<i>5,944</i>	<i>26,703</i>	<i>15,333</i>	<i>3,258</i>	<i>18,591</i>	<i>256,284</i>	<i>102,655</i>	<i>358,939</i>
4121	Road and bridge construction	231	231	3,694	380	4,074	3,809	382	4,191	3,642	263	3,905	78,808	21,270	100,079
4122	Non-building construction n.e.c.	904	874	8,595	1,146	9,740	8,446	1,124	9,570	7,924	913	8,837	146,919	61,914	208,833
412	<i>Total non-building construction</i>	<i>1,135</i>	<i>1,105</i>	<i>12,289</i>	<i>1,526</i>	<i>13,814</i>	<i>12,255</i>	<i>1,506</i>	<i>13,761</i>	<i>11,566</i>	<i>1,177</i>	<i>12,742</i>	<i>225,728</i>	<i>83,184</i>	<i>308,912</i>
41	<i>Total general construction</i>	<i>8,748</i>	<i>8,615</i>	<i>33,712</i>	<i>7,388</i>	<i>41,100</i>	<i>33,015</i>	<i>7,449</i>	<i>40,464</i>	<i>26,899</i>	<i>4,435</i>	<i>31,334</i>	<i>482,012</i>	<i>185,839</i>	<i>667,851</i>
4231	Concreting	1,829	1,485	3,927	994	4,921	3,968	1,001	4,969	2,774	515	3,289	54,373	9,121	63,494
4232	Bricklaying	2,387	2,334	4,693	1,040	5,732	4,600	1,040	5,641	1,941	290	2,231	28,492	2,119	30,612
4233	Roof tiling	519	502	703	248	952	686	248	933	443	148	591	5,794	2,044	7,838
4234	Floor and wall tiling	975	963	1,114	395	1,509	1,105	389	1,494	218	82	301	2,552	747	3,299
4241	Structural steel erection	436	425	1,527	332	1,859	1,528	329	1,857	1,228	143	1,371	23,063	5,409	28,472
4242	Plumbing	3,600	3,513	7,591	2,364	9,955	7,612	2,408	10,020	5,039	1,221	6,260	84,310	18,239	102,549
4243	Electrical work	2,939	2,882	7,742	2,310	10,052	7,827	2,339	10,165	5,808	1,105	6,913	103,375	23,856	127,231
4244	Heating and air conditioning	416	416	2,624	512	3,137	2,681	527	3,208	2,477	397	2,874	36,403	19,836	56,238
4245	Plastering and plaster fixing	1,409	1,134	2,767	687	3,454	2,706	695	3,400	1,771	334	2,104	31,190	5,665	36,855
4246	Carpentry	3,569	3,236	5,748	1,218	6,966	5,990	1,167	7,157	2,726	269	2,995	45,444	4,836	50,280
4247	Painting	2,899	2,762	4,636	1,396	6,031	4,588	1,407	5,995	1,958	486	2,443	30,166	6,137	36,303
4248	Earthmoving and dredging	1,436	1,396	4,026	976	5,002	4,221	1,007	5,227	3,140	525	3,665	47,298	10,941	58,239
4219	Special trades n.e.c.	1,637	1,628	5,388	1,421	6,808	5,572	1,444	7,016	4,560	757	5,317	62,999	29,901	92,899
42	<i>Total special trade construction</i>	<i>24,052</i>	<i>22,677</i>	<i>52,484</i>	<i>13,895</i>	<i>66,379</i>	<i>53,082</i>	<i>14,001</i>	<i>67,083</i>	<i>34,083</i>	<i>6,272</i>	<i>40,356</i>	<i>555,459</i>	<i>138,850</i>	<i>694,308</i>
41-42	<i>Total construction</i>	<i>32,800</i>	<i>31,292</i>	<i>86,196</i>	<i>21,282</i>	<i>107,479</i>	<i>86,097</i>	<i>21,450</i>	<i>107,547</i>	<i>60,982</i>	<i>10,707</i>	<i>71,689</i>	<i>1,837,471</i>	<i>324,689</i>	<i>1,362,160</i>

TABLE 2. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85—continued  
(S'000)

ASIC code	Description	Con- tract construc- tion work done	Sales of specu- lative construc- tion projects	Capital work done for own rental or lease	All other operat- ing revenue	Turnover	Stocks at		Pay- ments to contractors	Materi- als, fuels and other pur- chases	Other selected expen- ses	Total pur- chases and selected expen- ses	Value added	Fixed capital expendi- ture less dis- posals
							30 June 1984	30 June 1985						
4111	House construction	1,302,251	103,648	3,661	14,102	1,423,662	135,689	189,860	510,086	616,795	55,922	1,182,803	295,029	17,315
4112	Residential building construction n.e.c.	229,066	80,349	9,540	9,554	328,509	108,175	157,538	150,657	128,332	9,727	288,716	89,155	14,382
4113	Non-residential building construction	1,873,280	15,544	17,478	11,274	1,917,575	93,240	131,683	854,025	598,124	52,274	1,504,424	451,594	40,860
411	Total building construction	3,404,597	199,540	30,679	34,930	3,669,746	337,105	479,081	1,514,769	1,343,250	117,924	2,975,943	835,778	72,503
4121	Road and bridge construction	532,138	1,449	*42	32,910	566,539	16,432	30,274	131,036	209,784	60,396	401,215	179,165	15,037
4122	Non-building construction n.e.c.	1,102,539	n.p.	n.p.	31,473	1,159,585	35,374	43,222	302,532	479,878	73,104	855,515	311,919	51,736
412	Total non-building construction	1,634,677	n.p.	n.p.	64,383	1,726,124	51,806	73,496	433,568	689,662	133,499	1,256,729	491,085	66,773
41	Total general construction	5,039,274	257,283	99,313	5,395,870	388,911	552,577	1,948,337	2,032,912	251,423	4,232,672	1,326,863	139,277	
4231	Concreting	288,142	(a)	3,230	291,406	4,530	4,643	32,033	115,667	23,410	171,110	120,409	6,215	
4232	Bricklaying	141,648	(a)	*2,820	144,468	678	892	24,799	18,890	13,767	57,455	87,227	2,716	
4233	Roof tiling	61,382	(a)	464	61,867	1,300	1,382	9,264	30,402	3,963	43,629	18,320	900	
4234	Floor and wall tiling	36,732	(a)	1,603	38,344	379	476	3,153	7,555	4,930	15,639	22,803	905	
4241	Structural steel erection	90,653	(a)	923	91,582	9,352	10,088	12,514	21,557	7,185	41,256	51,062	*1,020	
4242	Plumbing	468,269	(a)	4,090	472,633	12,250	14,464	32,901	175,878	36,156	244,935	229,913	11,376	
4243	Electrical work	477,378	(a)	7,426	484,825	16,830	20,356	21,950	209,735	27,368	259,052	229,299	7,695	
4244	Heating and air conditioning	254,394	(a)	5,057	259,560	13,984	20,156	16,800	146,266	9,053	172,118	93,619	4,076	
4245	Plastering and plaster fixing	178,080	(a)	3,067	181,157	2,891	3,663	28,599	70,039	9,040	107,678	74,251	2,945	
4246	Carpentry	208,909	(a)	2,249	211,454	3,011	4,119	16,941	51,697	19,306	87,944	124,618	8,335	
4247	Painting	175,129	(a)	3,173	178,303	1,742	2,402	20,700	37,531	16,208	74,440	104,524	10,549	
4248	Earthmoving and dredging	295,356	(a)	11,972	307,486	4,546	6,636	44,591	66,829	67,504	178,926	130,650	21,744	
4249	Special trades n.e.c.	380,018	(a)	22,330	402,813	13,243	14,244	45,171	154,818	34,929	234,919	168,895	5,324	
42	Total special trade construction	3,056,090	1,403	68,405	3,125,897	84,733	103,521	309,416	1,106,865	272,819	1,689,100	1,455,584	83,798	
41-42	Total construction	8,095,365	201,004	57,681	167,717	8,521,768	473,645	656,097	2,257,753	3,139,777	524,242	5,921,773	2,782,447	223,875

(a) Unreliable estimates suppressed because of very high relative standard errors.

TABLE 3. CONSTRUCTION ESTABLISHMENTS : SELECTED ITEMS OF DATA BY INDUSTRY CLASS, VICTORIA, 1984-85

ASIC Code	Description	Establishments operating			Average employment over whole year			Employment at 30 June 1985			Employees at 30 June 1985			Wages and salaries paid to		
		During the year	At 30 June 1985		Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	On-site employees	Off-site employees	Total employees
		No.	No.		No.	No.	No.	No.	No.	No.	No.	No.	No.	\$' 000	\$' 000	\$' 000
4111	House construction	5,834	5,778	8,718	4,668	13,386	8,992	4,739	13,731	4,325	1,561	5,886	41,777	30,018	71,795	
4112	Residential building construction n.e.c.	500	421	795	322	1,117	830	333	1,163	568	151	720	8,928	3,288	12,216	
4113	Non-residential building construction	845	799	6,785	940	7,725	6,961	956	7,917	6,515	727	7,242	119,030	38,813	157,842	
411	Total building construction	7,179	6,998	16,297	5,930	22,228	16,783	6,028	22,811	11,408	2,439	13,848	169,735	72,119	241,854	
4121	Road and bridge construction	277	267	1,937	246	2,183	2,026	258	2,283	1,904	205	2,110	33,463	7,632	41,095	
4122	Non-building construction n.e.c.	600	586	4,221	608	4,828	4,056	604	4,660	3,706	388	4,094	73,637	34,296	107,933	
412	Total non-building construction	877	853	6,157	854	7,012	6,081	862	6,943	5,610	594	6,204	107,100	41,927	149,027	
41	Total general construction	8,056	7,851	22,455	6,784	29,239	22,864	6,889	29,754	17,018	3,033	20,051	276,835	114,046	390,881	
4231	Concreting	1,178	1,128	2,819	998	3,817	2,875	1,018	3,893	1,946	375	2,320	32,656	5,909	38,565	
4232	Bricklaying	2,853	2,823	4,291	1,516	5,807	4,378	1,518	5,895	1,334	146	1,480	19,332	1,458	20,791	
4233	Roof tiling	194	189	600	196	796	617	198	814	444	61	505	7,991	1,690	9,681	
4234	Floor and wall tiling	634	631	782	333	1,115	775	333	1,108	236	76	312	2,613	825	3,438	
4241	Structural steel erection	422	343	1,055	416	1,471	987	413	1,400	616	51	667	12,997	2,959	15,956	
4242	Plumbing	3,494	3,451	6,830	2,358	9,188	6,955	2,365	9,320	4,230	802	5,032	59,498	12,631	72,129	
4243	Electrical work	2,337	2,309	6,326	1,699	8,025	6,326	1,732	8,058	4,622	764	5,386	80,672	17,420	98,092	
4244	Heating and air conditioning	404	404	1,760	421	2,181	1,765	423	2,187	1,621	321	1,942	19,174	13,620	32,794	
4245	Plastering and plaster fixing	1,716	1,682	2,613	986	3,600	2,599	994	3,593	1,074	207	1,281	15,726	4,173	19,899	
4246	Carpentry	3,011	2,818	3,979	1,613	5,592	3,951	1,632	5,583	1,046	179	1,225	13,243	2,015	15,258	
4247	Painting	3,292	3,212	4,907	1,715	6,622	4,910	1,716	6,626	1,661	242	1,903	26,816	4,464	31,280	
4248	Earthmoving and dredging	1,020	980	2,122	920	3,042	2,182	921	3,103	1,368	235	1,603	25,695	6,166	31,861	
4219	Special trades n.e.c.	1,838	1,794	3,933	1,134	5,067	4,077	1,151	5,228	2,739	519	3,258	36,839	14,090	50,928	
42	Total special trade construction	22,393	21,764	42,018	14,306	56,324	42,397	14,413	56,810	22,936	3,980	26,916	353,252	87,421	440,673	
41-42	Total construction	30,450	29,616	64,473	21,890	85,563	65,261	21,382	86,563	39,953	7,013	46,967	630,887	281,467	912,354	

TABLE 3. CONSTRUCTION ESTABLISHMENTS : SELECTED ITEMS OF DATA BY INDUSTRY CLASS, VICTORIA, 1984-85—continued  
(S' 000)

ASIC code	Description	Contract construction work done	Sales of speci- cative construction projects	Capital work done for own use, other rental or operating or lease revenue		Turnover	Stocks at		Pay- ments to contract- ors	Material, fuels and other purch- ases	Other selected expen- ses	Total purch- ases and selected expen- ses	Value added	Fixed capital expendi- ture less dis- posals
				30 June 1984	30 June 1985									
4111	House construction	1,172,191	178,348	5,294	12,734	1,368,566	145,027	208,402	453,188	608,823	52,249	1,114,260	317,681	24,730
4112	Residential building construction n.e.c.	97,625	58,092	6,494	2,915	165,126	39,511	49,528	60,970	75,049	5,128	141,148	33,995	8,125
4113	Non-residential building construction	1,243,329	10,083	14,407	8,102	1,275,921	60,483	70,593	612,520	365,405	30,112	1,008,038	277,993	17,085
411	Total building construction	2,513,145	246,522	26,195	23,750	2,809,613	245,021	328,523	1,126,678	1,049,277	87,491	2,263,445	629,669	49,939
4121	Road and bridge construction	303,986	3,015	996	3,581	311,578	25,544	27,600	55,148	127,383	39,555	222,087	91,548	7,896
4122	Non-building construction n.e.c.	459,460	79	50	11,917	471,507	14,283	14,931	135,180	107,327	37,032	279,539	192,616	6,154
412	Total non-building construction	763,447	3,094	1,045	15,499	783,085	39,827	42,532	190,328	234,710	76,588	501,626	284,163	14,051
41	Total general construction	3,276,591	249,616	27,241	39,249	3,592,697	284,849	371,054	1,317,006	1,283,987	164,078	2,765,071	913,832	63,990
4231	Concreting	258,155	(a)	1,415	261,054	3,672	6,436	27,743	124,997	19,176	171,916	91,901	9,263	
4232	Bricklaying	122,262	(a)	328	124,447	1,276	1,217	12,324	12,564	12,458	37,347	87,041	8,787	
4233	Roof tiling	42,816	(a)	821	43,651	487	638	890	22,009	2,421	25,319	18,483	678	
4234	Floor and wall tiling	32,678	(a)	994	33,672	633	959	3,596	10,883	2,438	16,919	17,080	357	
4241	Structural steel erection	47,963	(a)	724	48,687	1,522	945	2,948	13,723	3,984	20,656	27,454	*222	
4242	Plumbing	401,277	(a)	5,888	407,396	12,322	14,083	32,269	175,411	27,557	235,238	173,919	10,741	
4243	Electrical work	375,772	(a)	7,547	384,125	15,191	16,915	13,247	171,244	19,828	204,320	181,530	9,921	
4244	Heating and air conditioning	178,695	(a)	4,630	183,495	8,200	8,964	18,012	101,482	7,949	127,444	56,816	*880	
4245	Plastering and plaster fixing	166,101	(a)	10,298	177,235	2,527	2,640	25,729	75,703	10,469	111,901	65,448	4,742	
4246	Carpentry	135,800	(a)	1,943	140,135	1,907	3,357	11,754	35,926	13,043	60,723	80,862	8,482	
4247	Painting	184,263	(a)	1,726	185,989	2,487	4,373	28,230	40,970	14,391	83,592	104,283	7,684	
4248	Earthmoving and dredging	193,727	(a)	3,426	197,181	4,854	4,296	39,713	41,489	36,386	117,588	79,036	14,407	
4249	Special trades n.e.c.	267,466	(a)	14,827	283,106	7,889	10,783	23,732	115,468	22,625	161,825	124,175	7,215	
42	Total special trade construction	2,406,976	*1,250	7,382	54,566	2,470,174	62,968	75,607	240,187	941,869	192,729	1,374,785	1,108,028	83,400
41-42	Total construction	5,683,567	250,666	34,623	93,815	6,062,871	347,816	446,662	1,557,194	2,225,856	356,807	4,139,857	2,021,860	147,390

(a) Unreliable estimates suppressed because of very high relative standard errors.

TABLE 4. CONSTRUCTION ESTABLISHMENTS : SELECTED ITEMS OF DATA BY INDUSTRY CLASS, QUEENSLAND, 1984-85

ASIC Code	Description	Establishments operating			Average employment over whole year			Employment at 30 June 1985			Employees at 30 June 1985			Wages and salaries paid to		
		During the year	At 30 June 1985										On-site employees	Off-site employees	Total employees	
		No.	No.	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	\$'000	\$'000	\$'000	
4111	House construction	3,899	3,840	6,436	2,893	9,330	6,531	2,926	9,458	3,525	1,066	4,591	40,713	19,232	59,945	
4112	Residential building construction n.e.c.	303	295	604	251	856	659	246	904	440	71	511	6,256	2,210	8,466	
4113	Non-residential building construction	642	556	4,676	684	5,361	4,868	704	5,572	4,493	519	5,012	77,344	25,811	103,155	
411	Total building construction	4,844	4,690	11,717	3,829	15,546	12,058	3,876	15,934	8,459	1,656	10,114	124,313	47,254	171,566	
4121	Road and bridge construction	132	130	2,069	213	2,283	2,072	217	2,289	2,034	182	2,217	42,113	9,348	51,460	
4122	Non-building construction n.e.c.	468	454	3,985	613	4,599	3,889	596	4,484	3,666	453	4,119	77,696	18,847	96,544	
412	Total non-building construction	600	583	6,055	826	6,881	5,960	813	6,773	5,701	635	6,336	119,809	28,195	148,004	
41	Total general construction	5,444	5,274	17,772	4,655	22,428	18,018	4,688	22,707	14,159	2,290	16,450	244,122	75,449	319,570	
4231	Concreting	685	669	1,312	391	1,704	1,314	417	1,731	735	122	856	11,772	1,623	13,396	
4232	Bricklaying	1,218	999	1,791	571	2,362	1,829	582	2,411	859	74	933	11,416	420	11,836	
4233	Roof tiling	150	135	410	85	495	411	85	496	308	29	337	4,892	481	5,373	
4234	Floor and wall tiling	568	562	744	294	1,038	713	298	1,012	221	42	263	2,877	375	3,252	
4241	Structural steel erection	*199	*196	748	*209	957	864	*209	1,073	724	86	809	15,668	1,258	16,926	
4242	Plumbing	1,452	1,422	3,294	1,269	4,563	3,176	1,289	4,465	1,964	364	2,328	31,777	5,601	37,378	
4243	Electrical work	1,518	1,502	4,012	1,187	5,199	4,187	1,184	5,371	3,009	388	3,397	49,128	8,869	57,997	
4244	Heating and air conditioning	124	124	1,376	180	1,556	1,445	175	1,620	1,412	153	1,566	19,958	7,231	27,189	
4245	Plastering and plaster fixing	659	459	912	372	1,284	938	371	1,309	572	112	683	7,288	2,365	9,653	
4246	Carpentry	1,902	1,778	2,427	944	3,371	2,511	947	3,458	775	38	813	12,338	687	13,025	
4247	Painting	1,781	1,717	3,309	1,090	4,398	3,419	1,095	4,515	1,555	247	1,802	20,334	2,912	23,245	
4248	Earthmoving and dredging	1,037	959	2,408	843	3,252	2,493	838	3,332	1,716	233	1,949	23,308	2,654	25,962	
4219	Special trades n.e.c.	761	750	2,163	596	2,759	2,296	608	2,904	1,732	239	1,971	22,438	7,057	29,495	
42	Total special trade construction	12,055	11,270	24,907	8,031	32,938	25,596	8,099	33,695	15,584	2,124	17,708	233,193	41,533	274,726	
41-42	Total construction	17,498	16,544	42,680	12,686	55,366	43,614	12,787	56,402	29,743	4,414	34,157	477,315	116,901	594,216	

TABLE 4. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, QUEENSLAND, 1984-85—continued  
(S' 000)

ASIC code	Description	Contract construction work done	Sales of specu- lative construc- tion projects	Capital work done for own use, rental or lease	All other operat- ing revenue	Turnover	Stocks at		Pay- ments to contractors	Material, fuel and other purch- ases	Other selected expen- ses	Total purch- ases and selected expen- ses	Value added	Fixed capital expendi- ture less dis- posals
							30 June 1984	30 June 1985						
4111	House construction	843,364	145,286	4,641	11,271	1,004,561	122,653	120,827	295,666	469,731	40,636	806,033	196,702	17,404
4112	Residential building construction n.e.c.	95,779	34,854	*4,811	2,395	137,838	46,274	57,911	53,413	56,778	2,988	113,178	36,298	*5,174
4113	Non-residential building construction	1,079,545	14,643	1,482	12,720	1,108,389	48,589	47,763	555,989	329,185	26,918	912,092	195,472	27,775
411	Total building construction	2,018,688	194,783	10,934	26,385	2,250,789	217,516	226,501	905,068	855,694	70,541	1,831,303	428,472	50,353
4121	Road and bridge construction	306,393	318	140	6,617	313,468	12,090	13,790	66,838	119,952	42,414	229,204	85,964	10,999
4122	Non-building construction n.e.c.	458,181	—	515	7,194	465,890	23,165	20,356	99,945	200,663	27,261	327,869	135,211	9,306
412	Total non-building construction	764,575	318	654	13,811	779,358	35,256	34,146	166,783	320,615	69,674	557,073	221,176	20,305
41	Total general construction	2,783,262	195,101	11,588	40,196	3,030,147	252,771	260,647	1,071,850	1,176,309	140,217	2,388,376	649,647	70,657
4231	Concreting	84,314	(a)	509	84,823	808	1,166	11,339	35,873	8,507	55,719	29,462	1,189	
4232	Bricklaying	59,099	(a)	161	59,654	967	1,118	11,101	13,064	4,096	28,261	31,544	1,555	
4233	Roof tiling	28,984	(a)	553	29,536	1,015	1,194	1,840	8,675	6,104	16,619	13,097	743	
4234	Floor and wall tiling	22,250	(a)	*995	23,245	85	113	2,851	6,825	2,853	12,530	10,743	*1,770	
4241	Structural steel erection	52,587	(a)	374	52,961	-3,469	1,744	4,950	25,821	4,962	35,732	22,442	*1,197	
4242	Plumbing	192,458	(a)	3,855	196,788	4,379	5,830	14,899	84,766	15,063	114,728	83,511	3,557	
4243	Electrical work	239,702	(a)	6,272	246,056	10,252	13,501	5,431	122,691	13,191	141,313	107,991	2,826	
4244	Heating and air conditioning	121,522	(a)	1,410	122,932	8,743	12,403	10,133	64,134	4,858	79,124	47,467	685	
4245	Plastering and plaster fixing	95,842	(a)	1,078	97,151	1,307	1,667	26,017	42,155	5,281	73,454	24,056	*2,569	
4246	Carpentry	74,529	(a)	*1,428	76,067	2,856	3,233	6,847	20,350	6,964	34,162	42,281	2,977	
4247	Painting	118,026	(a)	724	119,252	1,853	1,851	18,267	26,135	9,194	53,596	65,655	3,714	
4248	Earthmoving and dredging	152,371	(a)	6,536	159,148	2,018	2,934	15,722	32,102	43,597	91,422	68,642	11,400	
4249	Special trades n.e.c.	131,727	(a)	5,132	136,936	6,014	5,870	14,827	51,269	14,308	80,404	56,387	3,376	
42	Total special trade construction	1,373,409	1,085	1,027	29,028	1,404,548	36,828	52,623	144,224	533,862	138,980	817,066	603,277	37,560
41-42	Total construction	4,156,721	196,186	12,615	69,224	4,434,696	289,600	313,270	1,216,074	1,718,171	279,196	3,205,441	1,252,925	106,217

(a) Unreliable estimates suppressed because of very high relative standard errors.

TABLE 5. CONSTRUCTION ESTABLISHMENTS : SELECTED ITEMS OF DATA BY INDUSTRY CLASS, SOUTH AUSTRALIA, 1984-85

ASIC Code	Description	Establishments operating									Wages and salaries paid to				
		During the year		Average employment over whole year			Employment at 30 June 1985			Employees at 30 June 1985			On-site employees	Off-site employees	Total employees
		No.	No.	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	\$'000	\$'000	\$'000
4111	House construction	1,233	1,205	2,832	898	3,730	2,891	912	3,803	1,685	343	2,028	18,059	10,160	28,218
4112	Residential building construction n.e.c.	184	179	352	157	509	356	158	514	256	102	358	2,913	1,885	4,797
4113	Non-residential building construction	221	210	2,236	278	2,514	2,288	292	2,580	2,165	225	2,389	41,282	11,109	52,392
411	Total building construction	1,638	1,594	5,420	1,332	6,753	5,535	1,362	6,897	4,106	669	4,775	62,254	23,154	85,407
4121	Road and bridge construction	27	26	702	50	752	726	48	774	720	45	765	13,446	4,848	18,294
4122	Non-building construction n.e.c.	205	204	773	148	922	834	156	990	648	68	715	11,341	3,286	14,628
412	Total non-building construction	232	230	1,475	199	1,674	1,560	204	1,764	1,367	113	1,480	24,787	8,135	32,922
41	Total general construction	1,870	1,824	6,895	1,531	8,426	7,095	1,566	8,661	5,473	782	6,255	87,041	31,288	118,329
4231	Concreting	638	626	1,297	560	1,858	1,318	566	1,884	701	144	845	11,666	2,772	14,438
4232	Bricklaying	1,095	1,087	1,580	440	2,020	1,598	439	2,037	446	26	472	4,526	183	4,708
4233	Roof tiling	71	70	188	37	225	201	38	239	140	12	151	1,543	110	1,653
4234	Floor and wall tiling	*447	*442	512	125	636	*513	125	638	93	30	123	1,094	372	1,466
4241	Structural steel erection	*95	40	357	34	391	365	34	399	340	15	355	5,692	653	6,345
4242	Plumbing	794	794	1,631	703	2,334	1,680	705	2,386	784	220	1,004	12,220	3,325	15,546
4243	Electrical work	532	503	1,739	492	2,232	1,739	489	2,228	1,296	137	1,433	19,416	7,274	26,690
4244	Heating and air conditioning	122	108	896	136	1,031	958	123	1,081	885	69	954	9,120	6,205	15,326
4245	Plastering and plaster fixing	555	552	848	224	1,072	860	223	1,083	316	34	350	4,029	1,885	5,914
4246	Carpentry	1,065	1,053	1,472	699	2,171	1,446	702	2,148	404	32	436	4,964	195	5,158
4247	Painting	890	840	1,331	510	1,841	1,327	512	1,839	502	99	602	7,591	1,698	9,289
4248	Earthmoving and dredging	238	236	785	224	1,008	817	227	1,044	621	102	723	10,894	1,733	12,627
4219	Special trades n.e.c.	669	641	1,536	629	2,166	1,560	647	2,207	1,020	167	1,188	15,483	4,215	19,698
42	Total special trade construction	7,211	6,993	14,171	4,813	18,984	14,383	4,830	19,213	7,549	1,088	8,637	108,238	30,620	138,858
41-42	Total construction	9,081	8,818	21,866	6,344	27,411	21,478	6,397	27,874	13,822	1,870	14,892	195,278	61,908	257,187

TABLE 5. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, SOUTH AUSTRALIA, 1984-85—continued  
(\$'000)

ASIC code	Description	Contract construction work done	Sales of speculative construction projects	Capital work done for own use.		All other operating revenue	Turnover	Stocks at		Payments to contractors	Materials, fuels and other purchases	Other selected expenses	Total purchases and selected expenses	Value added	Fixed capital expenditure less disposals
				rental or lease	or revenue			30 June 1984	30 June 1985						
4111	House construction	422,701	11,472	608	4,476	439,256	43,459	47,730	165,779	183,997	11,185	360,960	82,568	7,806	
4112	Residential building construction n.e.c.	73,109	23,947	1,274	1,161	99,492	21,902	40,813	43,148	52,543	2,414	98,105	20,299	2,754	
4113	Non-residential building construction	437,897	1,099	1,795	6,540	447,332	18,797	24,051	251,705	109,505	9,644	370,855	81,731	4,957	
411	Total building construction	933,707	36,518	3,678	12,177	986,080	84,157	112,594	460,632	346,045	23,242	829,919	184,598	15,517	
4121	Road and bridge construction	100,455	—	—	2,200	102,655	1,901	3,395	12,603	46,022	11,988	70,613	33,536	3,108	
4122	Non-building construction n.e.c.	81,889	—	*21	956	82,867	3,843	4,090	15,638	31,392	4,752	51,782	31,332	1,917	
412	Total non-building construction	182,345	—	*21	3,156	185,522	5,743	7,484	28,241	77,415	16,739	122,395	64,868	5,024	
41	Total general construction	1,116,052	36,518	3,699	15,333	1,171,602	89,900	120,078	488,873	423,460	39,981	952,314	249,467	20,541	
4231	Concreting	84,212	(a)	2,165	86,377	1,090	1,320	9,720	28,428	6,556	44,705	41,902	2,591		
4232	Bricklaying	37,421	(a)	136	37,690	222	103	3,721	3,185	3,482	10,388	27,183	838		
4233	Roof tiling	9,367	(a)	88	9,455	448	1,019	2,230	2,609	782	5,621	4,404	338		
4234	Floor and wall tiling	17,981	(a)	*97	18,079	81	92	1,931	3,434	2,238	7,603	*10,486	275		
4241	Structural steel erection	13,583	(a)	*69	13,652	100	117	1,117	1,770	1,294	4,181	9,488	*1,400		
4242	Plumbing	97,954	(a)	2,119	100,349	3,078	3,591	9,450	42,532	6,675	58,656	42,205	2,130		
4243	Electrical work	102,664	(a)	5,084	107,793	6,130	6,629	2,788	48,242	4,351	55,381	52,911	1,712		
4244	Heating and air conditioning	77,064	(a)	4,488	81,552	2,124	1,781	4,526	47,251	3,124	54,902	26,308	873		
4245	Plastering and plaster fixing	44,954	(a)	1,270	46,224	1,347	1,070	6,438	16,768	2,554	25,759	20,188	1,156		
4246	Carpentry	46,664	(a)	533	47,253	331	558	3,751	11,381	3,689	18,821	28,659	*6,459		
4247	Painting	49,536	(a)	282	49,823	510	551	5,795	9,223	3,522	18,539	31,325	1,866		
4248	Earthmoving and dredging	58,166	(a)	2,246	60,413	597	737	6,270	13,570	13,542	33,382	27,170	5,577		
4249	Special trades n.e.c.	94,496	(a)	6,552	101,064	2,778	3,265	7,415	38,713	11,334	57,462	44,088	5,535		
42	Total special trade construction	734,062	335	198	25,129	759,724	18,839	20,832	65,152	267,104	63,145	395,400	366,317	30,389	
41-42	Total construction	1,850,114	36,853	3,897	40,463	1,931,327	108,739	140,910	554,025	690,563	103,125	1,347,714	615,784	50,930	

(a) Unreliable estimates suppressed because of very high relative standard errors.

**TABLE 6. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1984-85**

ASIC Code	Description	Establishments operating			Average employment over whole year						Wages and salaries paid to								
		During the year	At 30 June 1985	No.	Males			Females			Employees at 30 June 1985			On-site employees			Off-site employees		
					No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
4111	House construction	1,727	1,671	2,816	1,121	3,937	2,817	1,141	3,958	1,445	552	1,996	14,084	14,880	28,963				
4112	Residential building construction n.e.c.	79	79	151	57	208	153	57	210	133	43	177	1,694	827	2,521				
4113	Non-residential building construction	282	273	2,149	396	2,544	2,270	405	2,675	2,125	324	2,448	33,660	15,581	49,241				
411	Total building construction	2,088	2,023	5,115	1,574	6,689	5,239	1,604	6,843	3,703	919	4,622	49,437	31,288	80,725				
4121	Road and bridge construction	117	117	1,056	126	1,181	1,040	127	1,166	959	81	1,041	20,450	4,088	24,538				
4122	Non-building construction n.e.c.	284	278	2,056	305	2,361	2,105	307	2,412	1,950	193	2,142	45,809	9,827	55,636				
412	Total non-building construction	401	396	3,112	430	3,542	3,145	433	3,578	2,909	274	3,183	66,260	13,915	80,175				
41	Total general construction	2,490	2,419	8,227	2,004	10,231	8,384	2,037	10,421	6,612	1,193	7,805	115,696	45,203	160,900				
4231	Concreting	472	372	881	306	1,187	951	316	1,267	652	84	736	9,142	1,295	10,437				
4232	Bricklaying	1,430	1,420	1,949	720	2,669	1,997	727	2,724	563	55	618	7,703	583	8,286				
4233	Roof tiling	126	115	298	51	349	288	51	338	127	12	139	1,351	412	1,763				
4234	Floor and wall tiling	386	385	435	189	623	436	189	624	45	19	64	703	91	794				
4241	Structural steel erection	151	149	356	79	435	327	77	404	231	53	284	6,076	487	6,562				
4242	Plumbing	867	845	1,554	681	2,235	1,652	679	2,330	998	210	1,208	14,504	3,213	17,717				
4243	Electrical work	992	992	2,781	661	3,443	2,793	663	3,456	2,091	312	2,402	38,901	8,514	47,415				
4244	Heating and air conditioning	79	71	535	93	628	566	91	657	532	74	606	7,153	3,367	10,520				
4245	Plastering and plaster fixing	641	627	1,016	345	1,361	1,037	349	1,386	409	91	500	5,839	1,354	7,193				
4246	Carpentry	1,164	1,147	1,482	449	1,931	1,460	453	1,912	361	71	432	6,137	760	6,897				
4247	Painting	967	934	1,625	543	2,168	1,576	551	2,126	738	135	873	14,446	2,837	17,283				
4248	Earthmoving and dredging	386	386	1,518	370	1,888	1,563	372	1,934	1,288	123	1,411	23,212	4,572	27,784				
4249	Special trades n.e.c.	572	558	1,363	472	1,835	1,385	466	1,851	898	137	1,035	14,755	5,315	20,070				
42	Total special trade construction	8,234	8,001	15,795	4,958	20,754	16,029	4,982	21,011	8,933	1,376	10,309	149,921	32,800	182,721				
41-42	Total construction	10,724	10,420	24,823	6,962	30,985	24,413	7,019	31,432	15,544	2,569	18,113	265,617	78,003	343,621				

TABLE 6. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1984-85—continued  
(S'000)

ASIC code	Description	Contract construction work done	Sales of specu- lative construc- tion projects	Capital work done for own use, rental or lease	All other opera- ting revenue	Turnover	Stocks at		Pay- ments to contractors	Materi- als, fuels and other pur- chases	Other selected expen- ses	Total pur- chases and selected expen- ses	Value added	Fixed capital expen- diture less dis- posals
							30 June 1984	30 June 1985						
4111	House construction	559,358	13,417	1,417	3,873	578,065	46,611	52,250	192,902	268,534	23,639	485,075	98,630	6,320
4112	Residential building construction n.e.c.	35,344	8,974	574	361	45,253	3,504	5,333	19,078	19,992	1,181	40,251	6,832	830
4113	Non-residential building construction	475,708	451	271	15,418	491,849	22,160	32,194	207,561	161,245	15,109	383,916	117,967	5,673
411	Total building construction	1,070,410	22,842	2,262	19,653	1,115,168	72,275	89,777	419,540	449,772	39,929	909,241	223,428	12,823
4121	Road and bridge construction	166,655	2,768	26	4,177	173,626	8,414	11,201	30,344	67,161	19,006	116,513	59,901	4,628
4122	Non-building construction n.e.c.	251,908	—	14	8,660	260,583	3,557	13,510	58,535	80,510	16,782	155,827	114,709	3,290
412	Total non-building construction	418,563	2,768	40	12,837	434,208	11,971	24,711	88,880	147,671	35,789	272,340	174,610	7,918
41	Total general construction	1,488,973	25,611	2,303	32,490	1,549,376	84,245	114,488	508,420	597,443	75,718	1,181,581	398,038	20,742
4231	Concreting	69,230	(a)	951	70,180	719	1,089	6,588	33,174	5,483	45,245	25,305	977	
4232	Bricklaying	58,390	(a)	322	58,772	181	*332	8,384	7,634	4,700	20,719	38,205	1,491	
4233	Roof tiling	15,735	(a)	*17	15,753	1,752	1,352	1,731	6,340	546	8,616	6,736	377	
4234	Floor and wall tiling	11,087	(a)	288	11,375	70	151	1,005	2,117	1,326	4,448	7,008	*418	
4241	Structural steel erection	21,291	(a)	348	21,639	117	84	4,189	3,222	2,721	10,132	11,474	*143	
4242	Plumbing	104,873	(a)	1,621	107,645	3,218	4,112	12,041	46,590	7,021	65,653	42,885	*4,793	
4243	Electrical work	171,180	(a)	5,051	176,231	8,216	7,619	4,173	79,043	8,652	91,869	83,764	4,773	
4244	Heating and air conditioning	56,458	(a)	2,756	59,214	1,840	1,222	7,686	30,891	2,391	40,967	17,628	669	
4245	Plastering and plaster fixing	51,711	(a)	536	52,247	434	591	9,903	15,280	4,285	29,469	22,935	612	
4246	Carpentry	47,091	(a)	331	47,433	443	1,029	5,770	9,945	4,745	20,460	27,559	3,373	
4247	Painting	77,326	(a)	1,837	79,163	1,376	890	10,606	16,709	6,074	33,389	45,287	2,214	
4248	Earthmoving and dredging	129,170	(a)	8,496	137,689	5,535	4,204	13,038	33,746	32,737	79,521	58,838	9,825	
4249	Special trades n.e.c.	103,363	(a)	2,468	105,942	6,417	4,372	9,292	44,101	7,530	60,923	42,975	3,146	
42	Total special trade construction	916,904	*1,193	*163	25,022	943,282	28,318	27,048	94,406	328,792	88,215	511,412	430,600	32,811
41-42	Total construction	2,405,877	26,804	2,466	57,512	2,492,658	112,563	141,536	602,826	926,235	163,933	1,692,993	828,638	53,552

(a) Unreliable estimates suppressed because of very high relative standard errors.

TABLE 7. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, TASMANIA, 1984-85

ASIC Code	Description	Establishments operating									Wages and salaries paid to				
		During the year		Average employment over whole year			Employment at 30 June 1985			Employees at 30 June 1985			On-site employees	Off-site employees	Total employees
		No.	No.	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	\$'000	\$'000	\$'000
4111	House construction	466	462	778	356	1,134	788	357	1,145	373	64	437	5,168	1,389	6,557
4112	Residential building construction n.e.c.	38	38	102	29	131	108	30	138	80	11	91	1,510	218	1,728
4113	Non-residential building construction	92	92	806	98	904	868	101	968	813	64	878	12,328	2,968	15,296
411	Total building construction	597	593	1,686	482	2,169	1,764	488	2,251	1,266	139	1,406	19,006	4,576	23,581
4121	Road and bridge construction	28	28	249	32	280	252	33	285	231	21	252	3,625	1,518	5,143
4122	Non-building construction n.e.c.	40	40	155	22	177	160	23	183	128	10	138	1,603	240	1,843
412	Total non-building construction	67	67	404	54	458	412	56	468	359	31	390	5,228	1,758	6,986
41	Total general construction	664	660	2,090	536	2,627	2,176	543	2,719	1,625	170	1,796	24,234	6,334	30,568
4231	Concreting	74	72	173	63	236	175	64	240	96	9	105	1,603	223	1,825
4232	Bricklaying	167	161	303	108	411	311	109	420	149	8	157	2,216	50	2,266
4233	Roof tiling	12	12	29	17	47	33	21	55	24	16	40	85	319	404
4234	Floor and wall tiling	15	15	28	9	37	27	9	36	12	—	12	125	23	148
4241	Structural steel erection	14	13	95	9	103	94	10	105	87	7	94	1,444	119	1,564
4242	Plumbing	201	190	513	149	662	531	150	681	375	41	415	5,491	854	6,345
4243	Electrical work	239	231	538	180	718	560	181	741	358	50	408	5,094	855	5,949
4244	Heating and air conditioning	24	24	218	27	245	236	27	263	225	22	246	2,695	*1,858	4,553
4245	Plastering and plaster fixing	*274	46	117	34	151	131	35	165	93	10	103	1,118	438	1,557
4246	Carpentry	225	*167	200	*128	*327	202	*128	*329	33	3	36	353	8	361
4247	Painting	170	169	363	93	455	377	93	469	208	17	225	3,290	177	3,467
4248	Earthmoving and dredging	116	111	426	93	519	426	93	519	321	32	353	6,044	893	6,937
4249	Special trades n.e.c.	139	136	275	*280	555	276	*226	501	204	*130	333	3,104	357	3,461
42	Total special trade construction	1,669	1,347	3,279	1,189	4,467	3,379	1,145	4,524	2,185	344	2,529	32,660	6,176	38,837
41-42	Total construction	2,333	2,007	5,369	1,725	7,094	5,554	1,688	7,243	3,810	515	4,325	56,895	12,510	69,405

TABLE 7. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, TASMANIA, 1984-85—continued  
(\$'000)

ASIC code	Description	Contract construction work done	Sales of speculative construction projects	Capital work done for own use, rental or lease	All other operating revenue	Turnover	Stocks at		Payments to contractors	Materials, fuels and other purchases	Other selected expenses	Total purchases and selected expenses	Value added	Fixed capital expenditure less disposals
							30 June 1984	30 June 1985						
4111	House construction	75,929	7,203	502	1,207	84,840	4,890	6,148	20,491	43,015	3,143	66,649	19,449	2,060
4112	Residential building construction n.e.c.	12,478	3,909	*653	115	17,154	1,199	3,258	5,252	6,735	481	12,468	6,745	*780
4113	Non-residential building construction	76,666	144	27	1,762	78,599	7,717	11,256	26,706	30,788	1,694	59,188	22,950	521
411	Total building construction	165,073	11,256	1,181	3,084	180,593	13,806	20,662	52,449	80,538	5,319	138,306	49,144	3,361
4121	Road and bridge construction	27,842	—	—	2,425	30,268	1,359	1,707	4,078	8,943	2,163	15,185	15,432	877
4122	Non-building construction n.e.c.	9,024	—	18	846	9,888	287	470	867	3,998	1,047	5,912	4,159	213
412	Total non-building construction	36,867	—	18	3,271	40,155	1,646	2,177	4,945	12,941	3,211	21,096	19,591	1,090
41	Total general construction	201,939	11,256	1,199	6,355	220,749	15,452	22,840	57,394	93,479	8,530	159,402	68,734	4,451
4231	Concreting	10,761	(a)	55	10,816	159	132	284	4,953	970	6,208	4,581	*181	
4232	Bricklaying	8,789	(a)	62	8,851	35	63	1,173	1,142	592	2,907	5972	259	
4233	Roof tiling	2,075	(a)	26	2,102	35	94	283	763	184	1,231	930	62	
4234	Floor and wall tiling	992	(a)	78	1,070	9	22	52	434	86	573	511	39	
4241	Structural steel erection	4,255	(a)	151	4,407	15	17	59	1,148	301	1,508	2,900	15	
4242	Plumbing	28,041	(a)	871	28,925	1,033	1,197	1,698	13,185	1,848	16,731	12,358	836	
4243	Electrical work	28,346	(a)	772	29,393	1,368	1,329	1,351	13,014	1,708	16,074	13,280	723	
4244	Heating and air conditioning	18,441	(a)	478	18,919	766	*1,095	2,411	9,861	575	12,847	6,401	146	
4245	Plastering and plaster fixing	10,893	(a)	1,557	12,456	355	510	1,839	4,904	595	7,339	5,272	186	
4246	Carpentry	7,005	(a)	200	7,205	85	96	109	1,955	453	2,517	4,699	146	
4247	Painting	11,672	(a)	16	11,688	106	144	1,324	2,000	771	4,095	7,631	455	
4248	Earthmoving and dredging	30,175	(a)	1,653	31,834	637	755	3,326	6,379	6,276	15,981	15,972	2,512	
4249	Special trades n.e.c.	14,762	(a)	801	15,565	504	310	653	4,698	2,037	7,389	7,982	*16	
42	Total special trade construction	176,208	—	*300	6,721	183,229	5,107	5,765	14,562	64,436	16,400	95,398	88,489	5,544
41-42	Total construction	378,147	11,256	1,499	13,076	403,978	20,559	28,605	71,956	157,916	24,929	254,800	157,223	9,995

(a) Unreliable estimates suppressed because of very high relative standard errors.

TABLE 8. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, NORTHERN TERRITORY, 1984-85

ASIC Code	Description	Establishments operating		Average employment over whole year						Wages and salaries paid to					
		During the year	At 30 June 1985	Average employment over whole year			Employment at 30 June 1985			Employees at 30 June 1985			On-site employees	Off-site employees	Total employees
				Males	Females	Persons	Males	Females	Persons	Males	Females	Persons			
		No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	\$'000	\$'000	\$'000
4111	House construction	113	109	397	64	461	427	67	494	363	50	413	5,300	1,110	6,409
4112	Residential building construction n.e.c.	11	11	62	5	67	62	5	67	52	5	57	1,156	107	1,263
4113	Non-residential building construction	39	39	414	44	458	462	54	515	444	49	493	8,855	1,775	10,630
411	Total building construction	164	159	873	113	986	951	125	1,077	859	104	963	15,310	2,992	18,302
4121	Road and bridge construction	28	28	755	55	810	750	56	805	750	56	805	15,955	3,446	19,400
4122	Non-building construction n.e.c.	27	27	257	19	276	274	23	297	255	18	272	5,894	316	6,211
412	Total non-building construction	55	55	1,012	74	1,086	1,023	79	1,103	1,004	74	1,078	21,849	3,762	25,611
41	Total general construction	219	215	1,885	187	2,072	1,975	204	2,179	1,863	178	2,041	37,160	6,753	43,913
4231	Concreting	33	33	91	14	105	91	14	105	56	8	65	1,100	116	1,216
4232	Bricklaying	35	32	71	5	75	69	5	74	22	2	25	322	12	335
4233	Roof tiling	*2	*2	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
4234	Floor and wall tiling	9	9	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
4241	Structural steel erection	*30	*30	*76	5	80	83	5	87	51	2	53	346	45	392
4242	Plumbing	60	60	269	31	300	289	34	323	254	30	285	4,583	459	5,042
4243	Electrical work	64	64	383	45	429	404	46	451	374	36	410	5,820	1,120	6,940
4244	Heating and air conditioning	19	19	149	17	166	153	19	172	140	14	154	1,856	490	2,346
4245	Plastering and plaster fixing	20	20	38	11	49	36	11	47	14	1	15	237	16	253
4246	Carpentry	*256	*255	*541	10	*552	*555	10	*565	134	5	139	1,997	86	2,083
4247	Painting	48	48	92	14	106	96	14	110	46	*6	52	604	78	682
4248	Earthmoving and dredging	38	36	143	28	170	167	31	198	145	26	170	2,223	378	2,601
4249	Special trades n.e.c.	30	29	113	20	133	115	21	137	104	14	118	1,889	402	2,292
42	Total special trade construction	644	637	1,981	208	2,190	2,075	219	2,294	1,343	145	1,488	21,015	3,214	24,228
41-42	Total construction	863	851	3,866	395	4,262	4,050	423	4,473	3,206	323	3,529	58,174	9,967	68,141

TABLE 8. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, NORTHERN TERRITORY, 1984-85—continued  
(5'000)

ASIC code	Description	Contract construction work done	Sales of speculative construction projects	Capital work done for own use, rental or lease	All other operating revenue	Turnover	Stocks at		Payments to contractors	Materials, fuels and other purchases	Other selected expenses	Total purchases and selected expenses	Value added	Fixed capital expenditure less disposals
							30 June 1984	30 June 1985						
4111	House construction	89,312	4,260	699	702	94,973	9,699	8,049	39,428	37,736	3,190	80,354	12,968	1,755
4112	Residential building construction n.e.c.	11,688	267	*1,107	*409	13,472	551	139	6,078	4,306	290	10,675	2,386	1,202
4113	Non-residential building construction	105,334	60	84	46	105,524	4,171	3,675	51,624	38,656	2,071	92,352	12,676	425
411	Total building construction	206,334	4,588	1,890	1,157	213,969	14,420	11,862	97,130	80,699	5,551	183,381	28,030	3,383
4121	Road and bridge construction	91,537	—	83	6,117	97,737	4,072	9,307	19,556	35,569	12,599	67,724	35,248	4,889
4122	Non-building construction n.e.c.	26,154	—	*52	4,257	30,463	605	2,326	9,149	7,179	3,509	19,837	12,347	378
412	Total non-building construction	117,691	—	134	10,374	128,200	4,677	11,633	28,705	42,748	16,107	87,561	47,594	5,267
41	Total general construction	324,025	4,588	2,025	11,531	342,169	19,098	23,496	125,836	123,447	21,659	270,942	75,624	8,651
4231	Concreting	7,126	(a)	50	7,176	55	83	1,258	2,467	502	4,227	2,978	308	
4232	Bricklaying	2,400	(a)	—	2,400	24	27	562	200	164	926	1,478	69	
4233	Roof tiling	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
4234	Floor and wall tiling	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
4241	Structural steel erection	2,272	(a)	—	2,272	17	31	278	502	303	1,083	1,203	58	
4242	Plumbing	21,133	(a)	184	21,321	531	890	1,280	10,624	1,097	13,001	8,678	388	
4243	Electrical work	26,206	(a)	34	26,240	925	834	913	11,739	1,584	14,237	11,912	598	
4244	Heating and air conditioning	12,177	(a)	40	12,222	632	574	577	6,737	633	7,947	4,217	112	
4245	Plastering and plaster fixing	2,655	(a)	*6	2,661	34	41	578	959	129	1,665	1,002	36	
4246	Carpentry	*37,903	(a)	*6	*37,909	290	*1,297	*12,630	*13,785	*1,398	*27,813	*11,103	*1,495	
4247	Painting	3,958	(a)	—	3,974	2	—	895	1,140	345	2,379	1,593	*35	
4248	Earthmoving and dredging	11,342	(a)	750	12,092	189	273	1,166	2,621	1,841	5,627	6,548	1,038	
4249	Special trades n.e.c.	8,411	(a)	1,961	10,416	798	1,150	461	2,344	1,326	4,132	6,637	370	
42	Total special trade construction	136,315	—	69	3,031	139,415	3,503	5,205	*20,637	33,330	9,387	83,355	57,762	4,465
41-42	Total construction	460,341	4,588	2,094	14,561	481,583	22,601	28,701	146,473	176,777	31,047	354,297	133,387	13,115

(a) Unreliable estimates suppressed because of very high relative standard errors.

TABLE 9. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, AUSTRALIAN CAPITAL TERRITORY, 1984-85

ASIC Code	Description	Establishments operating			Average employment over whole year									Wages and salaries paid to		
		During the year	At 30 June 1985	Average employment over whole year			Employment at 30 June 1985			Employees at 30 June 1985			On-site employees	Off-site employees	Total employees	
				Males	Females	Persons	Males	Females	Persons	Males	Females	Persons				
No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	\$'000	\$'000	\$'000		
4111	House construction	295	293	511	212	723	518	213	731	305	119	423	3,755	2,899	6,653	
4112	Residential building construction n.e.c.	44	43	109	14	123	102	12	115	55	10	65	748	365	1,113	
4113	Non-residential building construction	56	56	861	103	964	928	111	1,039	914	107	1,021	21,730	4,463	26,193	
411	Total building construction	395	392	1,480	330	1,810	1,549	336	1,885	1,273	236	1,510	26,233	7,726	33,959	
4121	Road and bridge construction	21	17	287	23	310	260	23	283	253	16	269	10,967	741	11,708	
4122	Non-building construction n.e.c.	54	54	200	38	238	204	39	243	165	23	188	2,819	399	3,219	
412	Total non-building construction	76	72	487	61	548	464	62	526	418	39	456	13,786	1,140	14,927	
41	Total general construction	471	464	1,967	391	2,358	2,013	398	2,411	1,691	275	1,966	40,019	8,867	48,886	
4231	Concreting	73	73	132	32	164	133	32	165	74	15	89	1,373	130	1,502	
4232	Bricklaying	57	55	82	19	101	85	19	104	34	9	44	532	55	587	
4233	Roof tiling	11	11	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
4234	Floor and wall tiling	22	22	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
4241	Structural steel erection	9	9	64	4	67	65	4	68	60	4	64	1,366	104	1,470	
4242	Plumbing	125	121	358	106	464	365	107	472	276	43	319	4,636	771	5,408	
4243	Electrical work	77	77	194	57	250	199	57	256	151	19	170	2,805	397	3,201	
4244	Heating and air conditioning	15	12	39	6	45	39	7	46	37	7	43	588	89	677	
4245	Plastering and plaster fixing	32	32	65	14	79	65	14	79	39	8	47	505	60	565	
4246	Carpentry	77	75	145	33	178	132	34	166	72	9	82	1,525	114	1,638	
4247	Painting	159	159	215	*90	305	234	95	329	85	20	105	1,084	166	1,250	
4248	Earthmoving and dredging	61	61	95	57	152	98	57	154	48	*15	63	721	80	801	
4249	Special trades n.e.c.	75	72	265	68	334	280	68	348	228	23	251	3,189	1,171	4,359	
42	Total special trade construction	792	777	1,697	509	2,206	1,735	518	2,253	1,120	183	1,303	18,649	3,226	21,875	
41-42	Total construction	1,263	1,241	3,664	900	4,564	3,748	916	4,664	2,811	458	3,269	58,668	12,093	70,761	

TABLE 9. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, AUSTRALIAN CAPITAL TERRITORY, 1964-85—continued  
(S' 000)

ASIC code	Description	Contract construction work done	Sales of specu- lative construction projects	Capital work done for own use, rental or lease	All other oper- ating revenue	Turnover	Stocks at		Pay- ments to con- tractors	Mater- ials, fuels and other pur- chases	Other selected expen- ses	Total pur- chases and selected expen- ses	Value added	Fixed capital expen- diture less dis- posals
							30 June 1984	30 June 1985						
4111	House construction	74,410	37,817	344	527	113,098	20,482	33,115	42,396	50,997	4,736	98,129	27,602	2,012
4112	Residential building construction n.e.c.	1,778	19,257	1,926	*507	23,468	9,809	20,254	11,792	14,207	879	26,879	7,034	2,826
4113	Non-residential building construction	291,213	*107	—	465	291,784	5,962	11,788	186,026	56,491	5,372	247,889	49,722	1,676
411	Total building construction	367,401	57,181	2,270	1,498	428,350	36,253	65,157	240,214	121,696	10,987	372,897	84,358	6,515
4121	Road and bridge construction	58,343	—	30	1,282	59,655	2,113	5,594	20,783	19,477	3,917	44,176	18,961	1,993
4122	Non-building construction n.e.c.	17,927	—	—	126	18,053	585	415	3,255	6,963	1,242	11,459	6,425	397
412	Total non-building construction	76,271	—	30	1,408	77,709	2,697	6,010	24,039	26,439	5,158	55,636	25,386	2,389
41	Total general construction	443,672	57,181	2,300	2,906	506,059	38,950	71,167	264,253	148,135	16,145	428,532	109,744	8,904
4231	Concreting	11,853	(a)	39	11,891	17	40	1,296	5,468	834	7,597	4,317	*630	
4232	Bricklaying	2,777	(a)	27	2,885	70	197	497	220	261	979	2,033	98	
4233	Roof tiling	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
4234	Floor and wall tiling	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
4241	Structural steel erection	2,374	(a)	12	2,386	10	10	11	38	74	122	2,265	28	
4242	Plumbing	21,732	(a)	246	22,110	391	568	1,635	9,834	1,318	12,787	9,500	466	
4243	Electrical work	15,259	(a)	*119	15,378	649	581	1,060	7,820	750	9,630	5,681	253	
4244	Heating and air conditioning	3,129	(a)	23	3,152	*107	128	471	*1,665	240	2,376	797	*-2	
4245	Plastering and plaster fixing	7,423	(a)	98	7,522	62	49	1,819	3,707	309	5,835	1,673	66	
4246	Carpentry	5,479	(a)	82	5,561	283	243	623	1,270	586	2,479	3,042	172	
4247	Painting	10,315	(a)	*29	10,344	88	136	2,008	2,594	777	5,379	5,013	169	
4248	Earthmoving and dredging	5,479	(a)	10	5,489	18	133	321	923	1,327	2,570	3,034	*-196	
4249	Special trades n.e.c.	22,135	(a)	458	22,593	360	315	1,675	9,874	1,224	12,773	9,774	187	
42	Total special trade construction	112,408	75	138	1,155	113,776	2,059	2,412	12,435	45,311	7,932	65,678	48,452	1,934
41-42	Total construction	556,080	57,256	2,438	4,061	619,835	41,009	73,579	276,688	193,445	24,876	494,210	158,196	18,838

(a) Unreliable estimates suppressed because of very high relative standard errors.

**TABLE 10. CONSTRUCTION ESTABLISHMENTS: SELECTED RATIOS BY INDUSTRY CLASS FOR ESTABLISHMENTS OPERATING DURING 1984-85, AUSTRALIA**

ASIC Code	Description	Value added to turnover	Value added to average employment	Wages and salaries to value added	Employment per establishment	Turnover per establishment	Value added per establishment
			\$'000			\$'000	\$'000
4111	House construction	0.21	22.5	0.3	2.4	259	53
4112	Residential building construction n.e.c.	0.24	42.8	0.3	2.9	507	124
4113	Non-residential building construction	0.21	37.9	0.5	10.1	1,817	385
411	Total building construction	0.21	29.5	0.4	3.4	475	100
4121	Road and bridge construction	0.31	43.9	0.5	13.7	1,923	604
4122	Non-building construction n.e.c.	0.32	35.4	0.6	8.9	968	313
412	Total non-building construction	0.32	38.3	0.6	10.1	1,207	386
41	Total general construction	0.24	32.1	0.5	4.2	565	136
4231	Concreting	0.39	22.9	0.5	2.8	165	64
4232	Bricklaying	0.64	14.5	0.3	2.1	48	30
4233	Roof tiling	0.38	21.7	0.4	2.7	153	58
4234	Floor and wall tiling	0.55	13.9	0.2	1.6	42	23
4241	Structural steel erection	0.54	23.9	0.6	4.0	175	95
4242	Plumbing	0.44	20.3	0.4	2.8	128	57
4243	Electrical work	0.47	22.6	0.5	3.5	169	79
4244	Heating and air conditioning	0.34	28.2	0.6	7.5	616	210
4245	Plastering and plaster fixing	0.37	19.4	0.4	2.1	109	40
4246	Carpentry	0.56	15.3	0.3	1.9	51	29
4247	Painting	0.57	16.7	0.3	2.1	63	36
4248	Earthmoving and dredging	0.43	25.9	0.4	3.5	210	90
4249	Special trades n.e.c.	0.43	23.7	0.5	3.4	188	81
42	Total special trade construction	0.45	20.4	0.4	2.6	119	54
41-42	Total construction	0.32	24.7	0.5	3.1	238	76

TABLE 11. CONSTRUCTION ESTABLISHMENTS: SELECTED RATIOS BY INDUSTRY GROUP FOR ESTABLISHMENTS OPERATING DURING 1984-85, STATES AND TERRITORIES

ASIC Code	Description	Value added to turnover	Value added to average employment \$'000	Wages and salaries to value added	Employment per establishment	Turnover per establishment \$'000	Value added per establishment \$'000
<b>NEW SOUTH WALES</b>							
411	Building construction	0.23	30.7	0.4	3.6	482	110
412	Non-building construction	0.28	36.2	0.6	12.0	1,521	433
41	Total general construction	0.25	32.5	0.5	4.7	617	152
42	Special trade construction	0.47	22.0	0.5	2.8	130	61
41,42	Total construction	0.33	26.0	0.5	3.3	260	85
<b>VICTORIA</b>							
411	Building construction	0.22	28.3	0.4	3.1	391	88
412	Non-building construction	0.36	40.7	0.5	8.0	893	324
41	Total general construction	0.25	31.3	0.4	3.6	446	113
42	Special trade construction	0.45	19.7	0.4	2.5	110	49
41,42	Total construction	0.33	23.6	0.4	2.8	199	66
<b>QUEENSLAND</b>							
411	Building construction	0.19	27.6	0.4	3.2	465	88
412	Non-building construction	0.28	32.4	0.7	11.4	1,300	369
41	Total general construction	0.21	29.0	0.5	4.1	557	119
42	Special trade construction	0.43	18.2	0.5	2.7	117	50
41,42	Total construction	0.28	22.6	0.5	3.2	253	72
<b>SOUTH AUSTRALIA</b>							
411	Building construction	0.19	27.3	0.5	4.1	602	113
412	Non-building construction	0.35	38.8	0.5	7.2	799	279
41	Total general construction	0.21	29.6	0.5	4.5	626	133
42	Special trade construction	0.48	19.3	0.4	2.6	105	51
41,42	Total construction	0.32	22.5	0.4	3.0	213	68
<b>WESTERN AUSTRALIA</b>							
411	Building construction	0.20	33.4	0.4	3.2	534	107
412	Non-building construction	0.40	49.3	0.5	8.8	1,082	435
41	Total general construction	0.26	38.9	0.4	4.1	622	160
42	Special trade construction	0.46	20.7	0.4	2.5	115	52
41,42	Total construction	0.33	26.7	0.4	2.9	232	77
<b>TASMANIA</b>							
411	Building construction	0.27	22.7	0.5	3.6	303	82
412	Non-building construction	0.49	42.8	0.4	6.8	598	292
41	Total general construction	0.31	26.2	0.4	4.0	333	104
42	Special trade construction	0.48	19.8	0.4	2.7	110	53
41,42	Total construction	0.39	22.2	0.4	3.0	173	67
<b>NORTHERN TERRITORY</b>							
411	Building construction	0.13	28.4	0.7	6.0	1,308	171
412	Non-building construction	0.37	43.8	0.5	19.6	2,319	861
41	Total general construction	0.22	36.5	0.6	9.5	1,563	346
42	Special trade construction	0.41	26.4	0.4	3.4	216	90
41,42	Total construction	0.28	31.3	0.5	4.9	598	155
<b>AUSTRALIAN CAPITAL TERRITORY</b>							
411	Building construction	0.20	46.6	0.4	4.6	1,085	214
412	Non-building construction	0.33	46.3	0.6	7.2	1,026	335
41	Total general construction	0.22	46.5	0.4	5.0	1,075	233
42	Special trade construction	0.43	22.0	0.5	2.8	144	61
41,42	Total construction	0.26	34.7	0.4	3.6	491	125

**TABLE 12. CONSTRUCTION ESTABLISHMENTS : ON-SITE EMPLOYMENT BY OCCUPATION AT 30 JUNE 1985, AUSTRALIA (number)**

	N.S.W.	VIC.	QLD	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUST.
Boilermakers and structural steel workers	937	343	582	137	184	34	n.p.	n.p.	2,235
Bricklayers	4,759	4,776	1,921	1,910	2,137	286	82	102	15,972
Building service workers	979	585	329	*307	124	*192	8	21	2,545
Carpenters	14,716	12,621	8,445	3,114	3,031	1,287	*757	535	44,507
Carpet layers	469	437	309	157	169	62	n.p.	n.p.	1,653
Communications equipment workers	64	n.p.	112	n.p.	n.p.	n.p.	—	n.p.	326
Concreters	3,349	2,572	1,366	1,180	694	145	87	141	9,533
Construction foremen, managers, supervisors	5,852	3,616	3,291	1,354	1,913	368	485	579	17,459
Crane drivers, hoist and winch operators	494	200	259	44	94	16	11	38	1,156
Dogmen, crane chasers and riggers	967	398	370	101	133	9	20	55	2,053
Electrical powerline workers	118	83	95	n.p.	13	n.p.	n.p.	—	353
Electricians and electrical fitters	7,248	5,650	3,715	1,534	2,451	596	340	207	21,740
Electronic equipment workers	138	82	11	n.p.	23	n.p.	—	—	266
Floor and wall tilers	1,100	807	715	517	441	33	22	48	3,683
Labourers—									
Builders'	7,123	3,902	3,560	1,668	1,561	301	474	376	18,965
Earthmoving	1,748	863	703	246	446	129	177	83	4,396
Paving and surfacing	322	424	304	51	115	70	52	13	1,352
Railway track									
Other	768	—	n.p.	—	n.p.	—	—	—	175
Mechanical earthmoving plant operators	3,387	362	429	61	*399	36	72	9	2,137
Mechanical fitters	3,387	2,103	2,303	792	1,292	348	323	181	10,729
Motor truck drivers	545	344	244	100	298	32	54	17	1,635
Motor truck drivers	555	268	322	138	211	51	44	15	1,604
Painters, decorators and signwriters	4,527	4,866	3,353	1,354	1,566	381	87	240	16,374
Paving and surfacing plant operators	315	271	225	172	202	36	33	5	1,258
Plasterers	2,400	2,303	885	815	970	110	41	65	7,588
Plumbers, drainers, gas fitters and pipe fitters	2,400	2,303	885	815	970	110	41	65	7,588
Railway track construction workers	*108	—	n.p.	—	n.p.	—	—	—	268
Refrigeration and air conditioning mechanics	642	531	272	207	179	17	64	*20	1,932
Roof slaters and tilers	604	603	386	223	269	14	*14	11	2,125
Structural steel erectors, scaffolders, steel fixers and laggers	1,238	834	569	288	559	43	85	119	3,735
Sheet metal workers	677	181	349	174	159	n.p.	48	n.p.	1,618
Stonemasons	71	n.p.	*4	*9	15	n.p.	n.p.	n.p.	118
Welders	436	315	98	93	89	16	n.p.	n.p.	1,065
Other on-site workers	2,049	1,138	887	592	437	91	153	148	5,496
<b>Total</b>	<b>77,026</b>	<b>59,659</b>	<b>39,927</b>	<b>19,278</b>	<b>21,898</b>	<b>5,258</b>	<b>3,847</b>	<b>3,485</b>	<b>230,378</b>

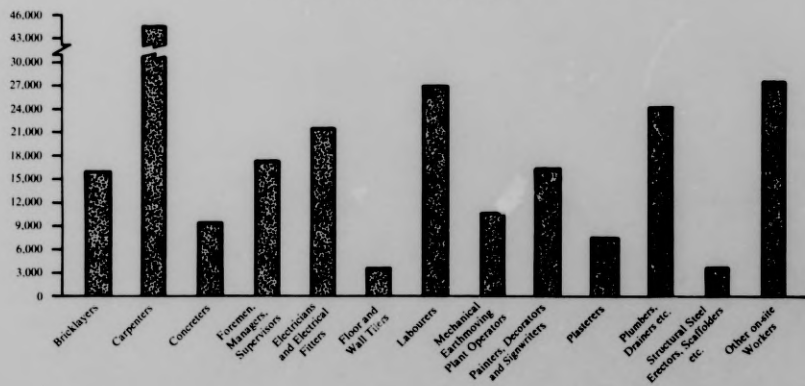
**ON-SITE EMPLOYMENT BY OCCUPATION — AUSTRALIA, 1984-85**


TABLE 13. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION WORK DONE BY TYPE OF CONSTRUCTION AND INDUSTRY CLASS, AUSTRALIA, 1964-85  
(S' 000)

ASIC code	Description	Trade contracting		General construction			Capital work done for own use rental or lease
		Prime contract	Sub-contract	Prime contract	Sub-contract	Speculative construction	
4111	House construction	2,660	13,995	4,365,926	156,919	549,476	15,682
4112	Residential building construction n.e.c.	*602	1,536	540,607	14,122	296,448	26,321
4113	Non-residential building construction	1,575	4,905	5,295,366	281,121	59,894	35,539
411	Total building construction	4,837	20,437	10,201,899	452,163	905,818	77,542
4121	Road and bridge construction	*181	936	1,335,321	250,914	16,416	1,274
4122	Non-building construction n.e.c.	2,085	2,481	2,064,523	337,994	n.p.	n.p.
412	Total non-building construction	2,266	3,417	3,399,844	588,908	n.p.	n.p.
41	Total general construction	7,103	23,854	13,601,743	1,041,070	1,027,957	
4231	Concreting	140,979	671,830	989	—	—	(a)
4232	Bricklaying	51,704	378,680	2,074	*330	—	(a)
4233	Roof tiling	32,731	130,402	n.p.	—	—	(a)
4234	Floor and wall tiling	19,606	103,895	*14	—	—	(a)
4241	Structural steel erection	82,935	151,521	n.p.	—	—	(a)
4242	Plumbing	462,261	871,796	1,061	608	—	(a)
4243	Electrical work	559,708	872,278	1,611	n.p.	—	(a)
4244	Heating and air conditioning	214,579	507,300	—	—	—	(a)
4245	Plastering and plaster fixing	43,476	513,945	*205	—	—	(a)
4246	Carpentry	148,914	409,893	4,663	*104	—	(a)
4247	Painting	317,378	312,734	111	n.p.	—	(a)
4248	Earthmoving and dredging	422,873	445,705	n.p.	n.p.	—	(a)
4249	Special trades n.e.c.	438,318	578,749	*4,750	*559	—	(a)
42	Total special trade construction	2,935,464	5,948,728	18,807	9,521	—	15,397
41-42	Total construction	2,942,567	5,972,582	13,620,550	1,050,592	928,024	115,331

(a) Unreliable estimates suppressed because of very high relative standard errors.

TABLE 14. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION PRIME AND SUB-CONTRACTS, SPECULATIVE WORK AND CAPITAL WORK DONE FOR OWN USE BY TYPE OF PROJECT, AUSTRALIA, 1984-85 (\$'000)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
<b>Building construction</b>									
<b>Houses—</b>									
New	1,526,000	1,681,697	1,159,880	468,737	662,362	93,018	83,370	118,235	5,793,299
Alterations, additions etc	741,300	544,081	213,071	193,239	148,964	34,897	6,549	37,724	1,919,826
<b>Total</b>	<b>2,267,300</b>	<b>2,225,778</b>	<b>1,372,951</b>	<b>661,977</b>	<b>811,326</b>	<b>127,915</b>	<b>89,919</b>	<b>155,960</b>	<b>7,713,125</b>
<b>Other residential buildings</b>									
New	515,501	275,556	244,855	158,774	107,978	21,982	28,972	36,138	1,389,755
Alterations, additions etc	43,277	41,811	10,461	9,242	12,562	5,708	874	1,187	125,123
<b>Total</b>	<b>558,778</b>	<b>317,368</b>	<b>255,315</b>	<b>168,016</b>	<b>120,540</b>	<b>27,691</b>	<b>29,846</b>	<b>37,324</b>	<b>1,514,878</b>
<b>Total residential buildings</b>	<b>2,826,077</b>	<b>2,543,146</b>	<b>1,628,266</b>	<b>829,993</b>	<b>931,866</b>	<b>155,605</b>	<b>119,765</b>	<b>193,284</b>	<b>9,228,002</b>
<b>Non-residential buildings; new work, alterations, additions improvements and renovations—</b>									
Hotels, motels etc.	193,437	69,875	178,477	54,213	83,037	3,723	20,573	9,578	612,912
Shops	379,760	260,834	218,237	72,281	63,203	11,712	30,974	8,518	1,045,520
Factories	518,914	410,482	190,563	85,467	111,235	16,001	7,318	6,209	1,346,189
Offices	1,079,283	602,771	455,024	227,695	190,004	30,465	33,814	78,547	2,697,603
Other business premises	252,574	188,317	127,123	86,645	117,170	14,638	*42,242	22,474	851,181
Educational	247,687	282,656	132,235	50,481	59,578	34,164	25,300	73,165	905,266
Religious	34,203	22,890	8,785	3,334	6,073	1,600	625	1,225	78,736
Health	121,582	153,838	146,827	36,005	43,713	8,694	4,893	2,382	517,933
Entertainment and recreational	117,783	68,809	93,676	29,615	26,566	6,789	8,993	10,362	362,594
Other	73,701	66,928	40,260	29,779	60,151	6,853	1,910	122,162	401,743
<b>Total non-residential buildings</b>	<b>3,018,923</b>	<b>2,127,400</b>	<b>1,591,208</b>	<b>675,515</b>	<b>760,729</b>	<b>134,638</b>	<b>176,642</b>	<b>334,621</b>	<b>8,819,676</b>
<b>Total building construction</b>	<b>5,845,000</b>	<b>4,670,546</b>	<b>3,219,474</b>	<b>1,505,508</b>	<b>1,692,595</b>	<b>290,243</b>	<b>296,407</b>	<b>527,906</b>	<b>18,047,679</b>
<b>Engineering construction; new work, alterations additions, improvements and renovations—</b>									
Roads, highways and related structures	535,204	316,823	287,303	96,131	186,365	42,588	92,966	55,649	1,613,030
Bridges	98,682	28,644	48,445	7,588	17,898	n.p.	n.p.	6,195	214,100
Railways and tramways	61,587	6,080	23,861	n.p.	n.p.	n.p.	n.p.	n.p.	104,912
Harbours	24,737	15,784	47,621	n.p.	4,593	257	n.p.	—	96,070
Dams, water supply pipelines	113,648	49,705	43,931	9,151	22,281	7,934	4,713	664	252,027
Electric power transmission lines	73,317	7,190	n.p.	n.p.	9,481	n.p.	2,522	—	113,126
Electric power distribution lines	13,078	3,740	11,930	*1,231	2,734	88	1,626	—	34,428
Water distribution systems	50,210	21,676	18,270	8,716	15,774	1,957	3,946	1,754	122,303
Sewer systems	69,206	75,375	29,191	10,507	17,594	3,308	7,370	2,855	215,406
Pipelines n.e.i.	82,389	96,365	16,713	6,185	50,675	203	—	2,032	254,562
Heavy electrical generating plant and equipment	377,504	96,664	97,794	24,385	32,477	n.p.	2,673	n.p.	631,727
Heavy industrial plant and equipment	301,603	110,519	133,641	36,112	108,750	n.p.	6,464	n.p.	700,873
Telecommunication towers lines and structures	3,477	2,529	n.p.	254	n.p.	155	*105	*22	18,728
Other	280,140	155,175	127,221	47,213	113,268	10,401	19,206	18,985	771,610
<b>Total engineering construction</b>	<b>2,084,782</b>	<b>986,268</b>	<b>911,441</b>	<b>259,817</b>	<b>591,084</b>	<b>70,630</b>	<b>149,327</b>	<b>89,551</b>	<b>5,142,901</b>
<b>Repair and maintenance to—</b>									
Houses	194,248	136,502	95,043	71,065	58,194	14,151	5,543	8,419	583,165
Other residential buildings	46,732	24,643	n.p.	n.p.	n.p.	1,514	n.p.	924	110,885
Non-residential buildings	134,299	96,058	55,651	32,569	36,080	11,513	7,624	5,589	379,384
Roads, highways and related structures	40,901	22,582	54,603	9,975	15,817	2,594	4,844	*134	151,450
Bridges	767	1,190	n.p.	n.p.	n.p.	—	—	n.p.	3,655
Other engineering	58,813	35,512	16,825	10,036	37,262	2,292	n.p.	n.p.	162,237
Demolition	16,729	20,130	5,173	4,060	1,041	1,153	—	—	48,287
<b>Total repair, maintenance and demolition</b>	<b>492,489</b>	<b>336,617</b>	<b>243,693</b>	<b>136,746</b>	<b>160,186</b>	<b>33,218</b>	<b>20,715</b>	<b>15,398</b>	<b>1,439,064</b>
<b>Total construction</b>	<b>8,422,272</b>	<b>5,993,431</b>	<b>4,374,668</b>	<b>1,902,872</b>	<b>2,443,865</b>	<b>394,892</b>	<b>466,449</b>	<b>632,856</b>	<b>24,629,645</b>

NOTE: See Explanatory Notes, paragraph 16(c) for an explanation of the lack of comparability between the statistics shown above and other ABS collections.

1984-85 CONSTRUCTION INDUSTRY SURVEY : VALUE OF CONSTRUCTION WORK UNDERTAKEN BY TYPE OF PROJECT : AUSTRALIA

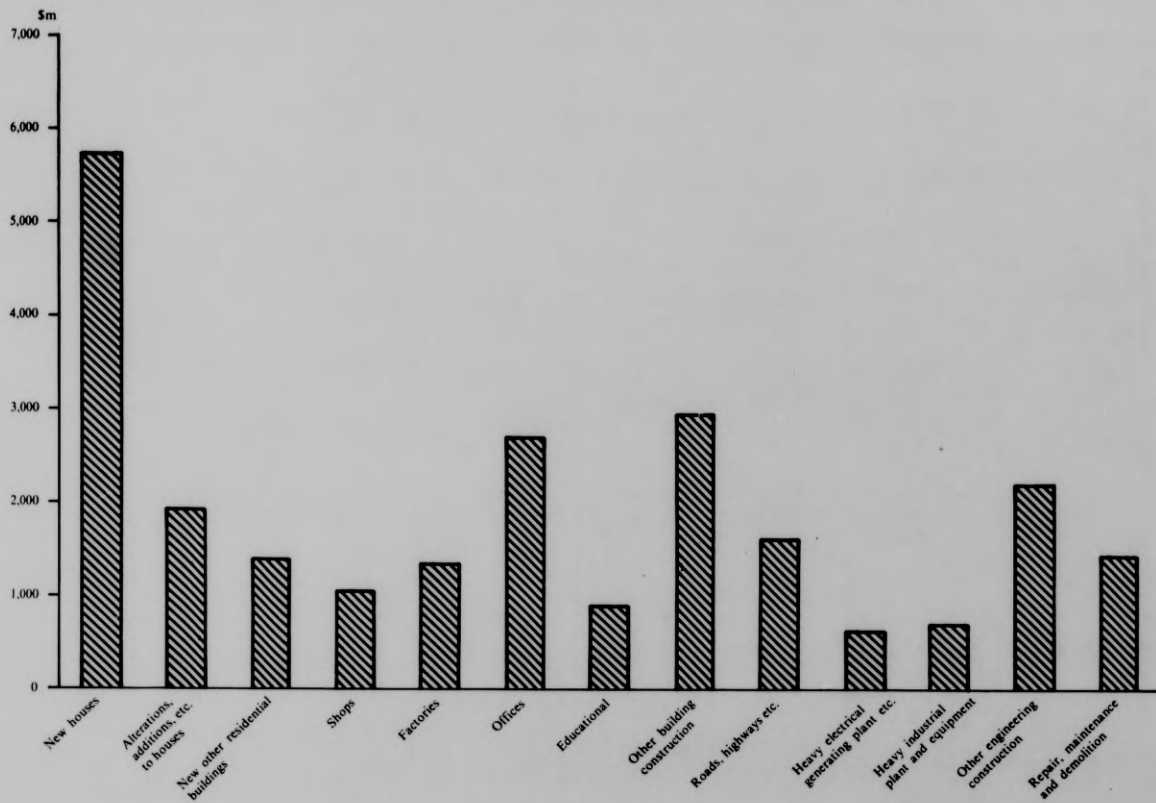


TABLE 15. CONSTRUCTION ESTABLISHMENTS: SUMMARY OF OPERATIONS, RELATIVE STANDARD ERRORS (%), AUSTRALIA, 1984-85

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
<b>Number of establishments</b>									
At 30 June 1985	3.3	3.6	4.1	7.3	6.4	7.1	23.7	7.2	1.5
Operating during year	3.3	3.6	4.2	7.1	6.2	11.7	23.3	7.1	1.4
<b>Employment</b>									
Employees at 30 June 1985	1.5	1.4	1.6	3.2	1.8	4.8	2.8	1.8	0.8
Employment at 30 June 1985	1.7	2.1	2.0	4.6	3.0	5.0	9.2	3.4	0.9
Average employment over whole year	1.6	2.1	2.0	4.7	3.0	5.6	9.6	3.5	0.9
<b>Wages and salaries</b>	1.2	1.0	1.1	2.1	1.3	3.7	2.8	1.6	0.6
<b>Turnover</b>									
Contract construction work done	1.2	1.3	2.1	2.8	1.3	3.0	7.8	1.7	0.7
Sales of speculative construction projects	13.8	7.3	8.8	5.5	6.1	13.3	8.9	8.4	4.8
Capital work done for own use, rental or lease	8.7	8.4	30.7	11.0	10.0	34.8	29.8	10.3	6.0
All other operating revenue	4.1	5.6	4.9	3.5	3.1	3.9	4.3	7.6	2.1
Total	1.2	1.3	2.0	2.7	1.3	2.8	7.5	1.7	0.7
<b>Stocks</b>									
At 30 June 1984	2.1	3.6	5.1	10.0	1.9	2.3	1.4	7.6	1.7
At 30 June 1985	2.9	3.3	6.8	5.6	1.1	3.7	4.2	8.3	1.9
<b>Purchases and selected expenses</b>	1.3	1.4	2.4	3.2	1.4	3.0	8.2	2.0	0.8
<b>Value added</b>	1.9	1.5	1.7	3.1	1.6	3.4	6.6	2.2	0.8
<b>Fixed capital expenditure less disposals</b>	4.6	5.5	5.6	10.8	8.0	8.3	14.0	4.7	2.6

## CLASSIFICATION AND DEFINITIONS

## ASIC Division E

1. Australian Standard Industrial Classification (ASIC) Division E (Construction) comprises the following construction industries.

Sub-division	Group	Class	Title
41			GENERAL CONSTRUCTION
	411		Building construction
		4111	House construction
		4112	Residential building construction n.e.c.
		4113	Non-residential building construction
	412		Non-building construction
		4121	Road and bridge construction
		4122	Non-building construction n.e.c.
42			SPECIAL TRADE CONSTRUCTION
	423		Concreting, bricklaying and tiling trades
		4231	Concreting
		4232	Bricklaying
		4233	Roof tiling
		4234	Floor and wall tiling
	424		Other special trades
		4241	Structural steel erection
		4242	Plumbing
		4243	Electrical work
		4244	Heating and air conditioning
		4245	Plastering and plaster fixing
		4246	Carpentry
		4247	Painting
		4248	Earthmoving and dredging
		4249	Special trades n.e.c.

## Unit definitions

2. An *enterprise* is a unit which owns and finances the operations of one or more establishments.

3. An *establishment* is a unit which engages in the production of goods and services. An establishment in the construction industry is defined as a single location at which, or from which, construction activities are managed or controlled for periods greater than one year. For convenience, such a location is commonly called the *construction base of operations*. The data collected from the establishment (the construction base of operations) also covers activities undertaken at or from associated ancillary units (such as storage and transport depots).

4. The definition of the establishment in the construction industry therefore differs for practical reasons from that used in the mining, manufacturing and other industries where in general the establishment covers only the operations carried on at a single physical location. However, the basic concept is consistent with these industries. For full details of the definition of an enterprise and an establishment refer to Chapters 4 and 5 of the publication *Standards for Statistical Units in Australian Integrated Economic Statistics (SSU) — 1985 Edition* (ABS Catalogue No. 1231.0).

5. The major implications of the establishment definition are that:

- statistics of the number of establishments relate to the number of bases of operation rather than the number of locations at which construction activity is being undertaken; and
- statistics for each State relate to the State of location of the base of operations. This may not always correspond to the State in which the construction activities were undertaken.

## Data item definition\*

*Establishments operating during 1984-85.* The number of construction establishments operating at any time during the year. *Excludes* separately located administrative offices and ancillary units.

*Establishments at 30 June 1985.* The number of construction establishments in operation at 30 June 1985. *Excludes* separately located administrative offices and ancillary units.

*Employment at 30 June 1985.* Employees plus proprietors and partners working on a full or part-time basis.

*Average employment over whole year.* The average number of employees plus working proprietors and working partners.

*Employees.* The number of persons on the payroll including:

- employees absent on paid sick leave, paid holidays or long service leave;
- part-time and casual employees;
- all employees working at construction establishments and those working at any separately located administrative offices or ancillary units mainly supporting construction establishments;
- salaried directors; and
- apprentices

and excluding:

- sub-contractors and their employees;
- employees who, during the whole of the last pay period, were on leave without pay, stood down, or absent because of an industrial dispute;
- directors not drawing a salary; and
- all unpaid helpers.

*On-site employees.* Employees, including clerical and supervisory employees, spending more than 50 per cent of their time working at, and travelling between, construction sites.

*Off-site employees.* Employees spending more than 50 per cent of their time not working at construction sites (eg working at administrative offices, storage depots).

*Wages and salaries.* Gross earnings of all employees, that is, earnings before taxation and other deductions. Drawings of working proprietors and working partners are excluded.

Income from *contract construction work done.* This is derived from general constructors and trade contractors engaged in:

- new work;
- alterations and additions;
- improvements and renovations;
- repair and maintenance; and
- demolition.

Contract construction income includes all claims for payment submitted during 1984-85 for prime (head) contract and sub-contract work done.

*Sales of speculative construction projects.* Receipts from speculative construction projects sold during 1984-85 NET of the estimated sale price of the land at the time of sale. A speculative construction project is one for which no buyer has been identified, or contract signed, at the time of commencement of construction.

*Capital work done for own use, rental or lease.* The value of work done by establishments in producing, constructing or installing fixed tangible assets for the enterprises' own use. The value includes expenses such as wages and salaries of employees concerned, materials drawn from stocks, and payments to contractors, except where these expenses are charged directly to fixed tangible assets accounts.

*All other operating revenue.* This item includes income from:

- renting, leasing and hiring in respect of premises, vehicles and equipment without operators;
- providing architectural, surveying and consultant engineering services;
- resale of goods;
- commission revenue from non-construction activity; and
- bounties and subsidies.

All other operating revenue excludes interest, royalties, dividends, sales of fixed tangible assets, sales of land and insurance claims for loss of fixed tangible assets.

*Turnover.* Contract construction revenue, plus sales of speculative construction projects, plus capital work done for own use, rental or for lease, plus all other operating revenue as defined above.

*Stocks (at 30 June 1984 and at 30 June 1985).* Comprises:

- construction materials, fuels etc;
- contract construction work-in-progress. Includes the value of work done on construction contracts for which claims for progress payments have not been made, and the value of materials already delivered to construction sites;
- speculative construction projects completed but not sold;
- speculative construction work-in-progress; and
- goods for sale and non-construction work-in-progress.

The value of any land holdings is excluded.

Speculative construction project stocks are valued on a direct cost basis, i.e. they are NET of the value of overheads, expected profit and the estimated market price of land based on the condition in which it was originally purchased. All other stocks are valued on a balance sheet basis before deduction of provisions for future losses.

*Payments to contractors (and sub-contractors).* Amounts paid for contract and/or sub-contract work performed during the year. Includes amounts paid for "supply and fix" work performed during the year as well as for the hire of plant and equipment with an operator.

*Materials, fuels and other purchases.* Comprises the value of purchases of all materials, stores and supplies for use on building jobs and construction sites. Excludes any land purchased.

*Other selected expenses.* Comprises repair and maintenance expenses (paid to other enterprises), rent leasing and hiring expenses (except an indicated under "payment to contractors" above), motor vehicle running expenses, outward freight and cartage expenses (paid to other enterprises) and commission expenses and transfers in. Wages and salaries are excluded.

*Value added.* Turnover, plus increase (or less decrease) in the value of stocks, less total purchases, transfers in and selected expenses.

NOTE: 1. While value added is a basic measure of an industry's contribution to total production, it cannot be inferred that when wages and salaries are deducted from value added, the whole of the surplus is available for profit. There are many miscellaneous expenses (such as depreciation, workers' compensation insurance, other insurance, payroll tax, income tax, rates, advertising, interest on borrowed funds, bad debts and other sundry charges) which are not taken into account in arriving at value added.

2. Value added as calculated in this publication differs from the concept used in the National Accounts where some of these miscellaneous expenses are deducted in the calculation of value added, and the change in stocks component is measured by valuing the physical change in stocks at current prices.

*Fixed capital expenditure less disposals.* Capital expenditure on fixed tangible assets LESS the value of the disposal of fixed tangible assets.

Capital expenditure on fixed tangible assets comprises outlays on new and second hand fixed tangible assets. In general this is expenditure charged to fixed tangible assets accounts before deduction of trade-in allowances.

Disposals of fixed tangible assets comprise the realised value of sales (including trade-ins) and the book value of transfers to related enterprises and sales of fixed tangible assets on a lease back basis. The value of speculative construction projects sold and the sale of land purchased for sale or for speculative construction is excluded.

*Trade contracting.* Work done under trade contracting consists of contracts on building/construction projects involving one trade only e.g. bricklaying, carpentry, concreting, earthmoving and dredging, electrical work, floor and wall tiling, heating and air conditioning, painting, plastering and plaster fixing, plumbing and/or draining, roof tiling, structural steel erection, and any other special trade contracting activity.

*General construction.* Work done under general construction involves the construction of buildings and other structures and alterations, additions, general renovation or repairs to buildings and other structures and the organising or managing of these activities.

*Prime contract.* A prime contract is defined as a contract where the contractor is legally liable to the owner of the project, and not to another contractor, for the performance of construction activity.

*Sub-contract.* A sub-contract exists where building and/or construction work is done for a party who is not the owner.

*Occupations.* The survey collected data on the occupation of on-site construction employees. The occupation headings used in this survey are consistent with occupations defined in *Australian Standard Classification of Occupations* (Catalogue Nos. 1219.0 and 1220.0). Note that the data reported for occupations relate to the tasks or duties the on-site employees were actually performing in the main on-site job held during the last pay period in June 1985, which in some cases may not be the actual occupation they were employed to generally/usually carry out.

*Type of work.* Each project is classified into one of four types of work:

- *New.* Construction of previously non-existing structures;

- *Alterations, additions, improvements and renovations.* Comprises work done on existing structures. Includes capital improvements of fixed tangible assets and the installation of integral building fixtures in existing structures, e.g. lifts, fire sprinkler systems;
- *Repair and maintenance.* Construction activity that is caused by normal wear and tear and is carried out on an ongoing basis (continuously and repetitively) over the life of the structure is defined as repair and maintenance. Substantial 'one-off' repairs (carried out once or twice over the life of the structure) are treated as capital improvements and not repair and maintenance; and
- *Demolition.* Defined as activity primarily involving the demolition of existing structures. For projects involving both the demolition of existing structures and the building of new structures, the value of construction work done is shown against the project that accounts for most of the construction work done.

#### *Type of construction project.*

The type of construction project is divided into a number of categories as defined below:

##### (a) *Building construction*

- (i) *Houses.* Includes bungalows, detached caretakers'/managers' cottages, granny flats, manses, presbyteries and rectories.
- (ii) *Other residential buildings.* Includes blocks of flats, duplexes, attached granny flats, home units, semi-detached houses, terrace houses, townhouses, villa units.
- (iii) *Hotels, motels, etc.* Includes boarding houses, government workers' hostels, guest houses, holiday apartment buildings, migrant hostels, ski lodges, youth hostels.
- (iv) *Shops.* Includes restaurants, cafes, taverns, dry cleaners, funeral parlours, laundromats, hair salons, reception centres, shopping arcades, travel agency premises.
- (v) *Factories.* Includes abattoirs, bakeries, breweries, brickworks, electricity generation buildings, foundries, manufacturing laboratories, oil refinery buildings, power houses, timber mills, workshops as part of a manufacturing process.
- (vi) *Offices.* Includes banks, council chambers, embassies, post offices, town halls.
- (vii) *Other business premises.* Includes air traffic control buildings, broadcasting studios, bus depots, covered car parks, cold stores, electricity distribution/substation/switching equipment buildings, film studios, grain storage buildings, mail sorting centres, pumping stations, service stations, storage depots, telephone/telex/telegraph exchanges, transport depots, warehouses.

- (viii) *Educational*. Includes art galleries, colleges, research and teaching laboratories, libraries, museums, schools, universities.
  - (ix) *Religious*. Includes convents, churches, monasteries, novitiates.
  - (x) *Health*. Includes clinics, hospitals, medical centres, surgeries.
  - (xi) *Entertainment and recreational*. Includes amusement park buildings, bowling alleys, casinos, cinemas, clubs, grandstands (roofed), gymnasiums, public halls, sports and recreation centres, squash courts, theatres.
  - (xii) *Other*. Includes ambulance, fire and police stations, barracks, crematoria, fruit and skin drying sheds, gaols, glass houses, homes for the aged, children, disabled, etc (where medical care is not provided as a normal ongoing service), law courts, livestock sheds, mine buildings, public toilets, veterinary premises.
- (b) *Engineering construction*
- (i) *Roads, highways and related structures*. Includes airport runways, cycle paths, parking areas, pedestrian and vehicle overpasses and overpasses, subdivisions and associated work and services, street and highway lighting.
  - (ii) *Bridges*. Includes those of all types and of any construction for the support of roadways, railways, roadbeds and water channels, causeways, elevated highways.
  - (iii) *Railways and tramways*. Includes overhead power lines for electrified railways, tramways, platforms, roadbeds, for elevated and underground railways, signal bridges, signal towers, fuel hoppers, tunnels for underground railways.
  - (iv) *Harbours*. Includes boat and yacht basins, breakwaters, harbour bottoms and channels constructed primarily for dredging, marinas, piers, wharves.
  - (v) *Dams, water supply pipelines*. Includes dams, river levees and embankments designed for water diversion (to canals, pipelines, etc), water level raising (for power generation, navigational or recreational purposes), water storage (for domestic supply or irrigation purposes), flood prevention or erosion, aqueducts, water conduits (for water supply, irrigation, flood control).
  - (vi) *Electric power transmission lines*. Includes lines designed to carry power from the generating plant to bulk power and distribution substations at high voltage.
  - (vii) *Electric power distribution lines*. Includes lines designed to carry power at relatively low voltages from the bulk power and distribution substation via primary feeders and secondary and tertiary networks to individual consumers.
  - (viii) *Water distribution systems*. Includes systems (generally in urban areas) to convey water to individual residences, commercial and industrial establishments and for fire protection purposes.
  - (ix) *Sewer systems*. Includes sanitary and storm sewers for the removal of sewage and of rainwater, generally in urban areas.
  - (x) *Pipelines, n.e.i.* Includes pressure systems (overland and submarine) to convey crude petroleum, refined liquid petroleum products, gas, coal, slurry, chemicals, foodstuffs, etc.
  - (xi) *Heavy electrical generating plant and equipment*, assembled and erected on-site. Includes boilers, isolated phase busbars, turbines, electricity stations and substations, associated work, e.g. chimneys, foundations, towers.
  - (xii) *Heavy industrial plant and equipment*. Includes chemical plant and equipment, bulk storage tanks (water, chemicals, petroleum, etc), cranes, furnaces, materials handling equipment, mining plant and oil refinery equipment, ovens, pumping equipment and other plant and equipment, assembled and erected on-site which is physically composed of prefabricated, integral parts produced by manufacturing industries.
  - (xiii) *Telecommunications towers, lines and structures*. Includes coaxial cables, microwave links, radar, radio, television and microwave transmitting towers, telephone and telegraph lines and underground cables.
  - (xiv) *Other*. Includes canals, golf courses, landscape gardening services, pile driving services, playing fields, racecourses, road traffic control systems, sewerage and water treatment plants, stadiums, swimming pools, tunnels, velodromes.