

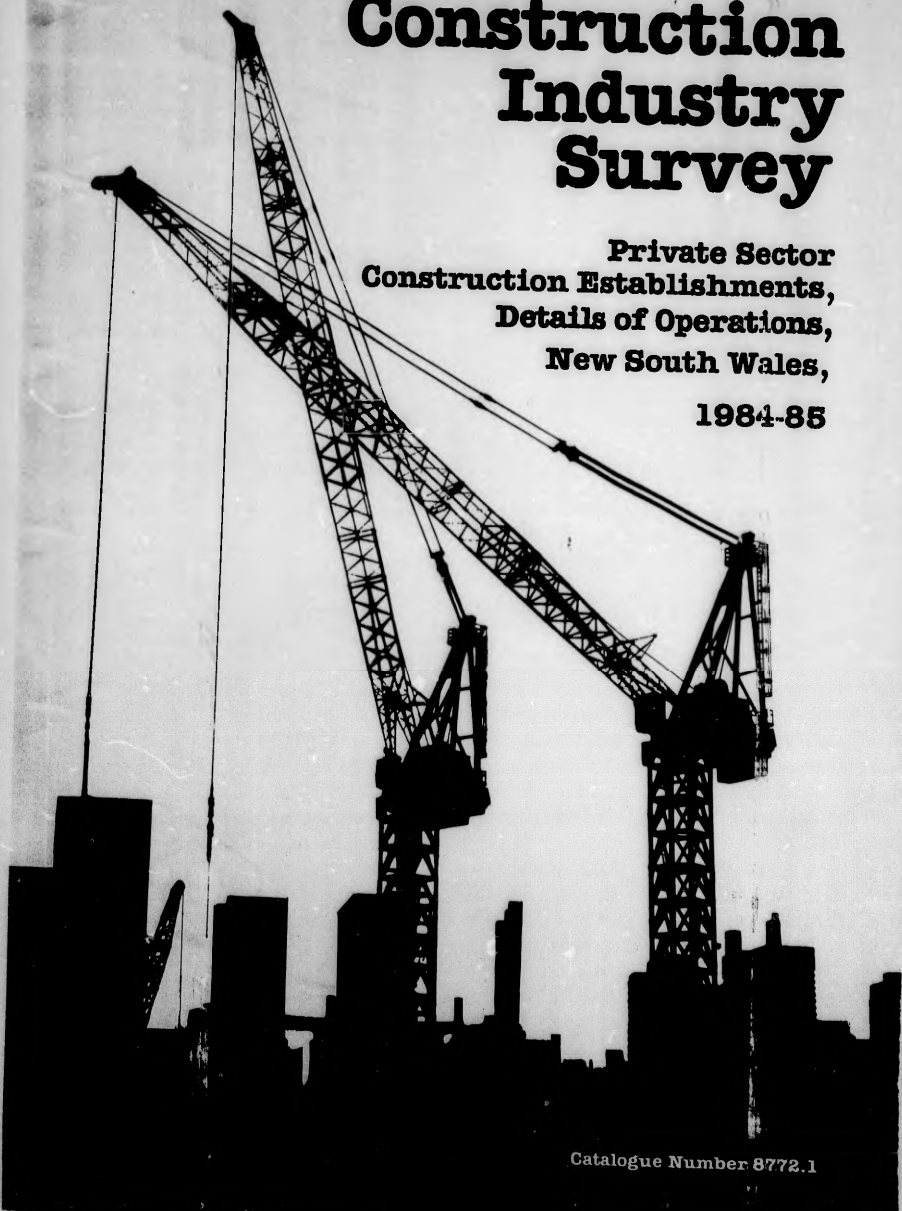


AUSTRALIAN BUREAU OF STATISTICS

Construction Industry Survey

**Private Sector
Construction Establishments,
Details of Operations,
New South Wales,**

1984-85



Catalogue Number 8772.1

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**CONSTRUCTION INDUSTRY SURVEY :
PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS,
DETAILS OF OPERATIONS, NEW SOUTH WALES, 1984-85**

(Previously : Private Sector Construction Establishments, Details of Operations by Industry Class,
New South Wales, 1978-79. Catalogue No. 8715.0)

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(P)

CATALOGUE NO. 8772.1

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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 32,800 private sector construction establishments operating in New South Wales during 1984-85. These establishments had an average employment during 1984-85 of 106,519, a total turnover of \$8,522 million and capital expenditure (less disposals) of \$223 million. These data represent 31% of the number of establishments, 33% of average employment during 1984-85, 34% of turnover and 36% of capital expenditure (less disposals) of private sector construction establishments operating in Australia.

During 1984-85, 73% (22,829) of construction establishments in New South Wales had 0-2 employment and contributed 20% (\$1,670 million) to total turnover. 0.2% (74) of construction establishments had greater than 100 employment and contributed 24% (\$2,028 million) to total turnover.

In New South Wales for 1984-85, value added for the construction industry was \$2,782 million compared with \$14,060 million for the manufacturing industry and \$1,709 million for the mining industry.

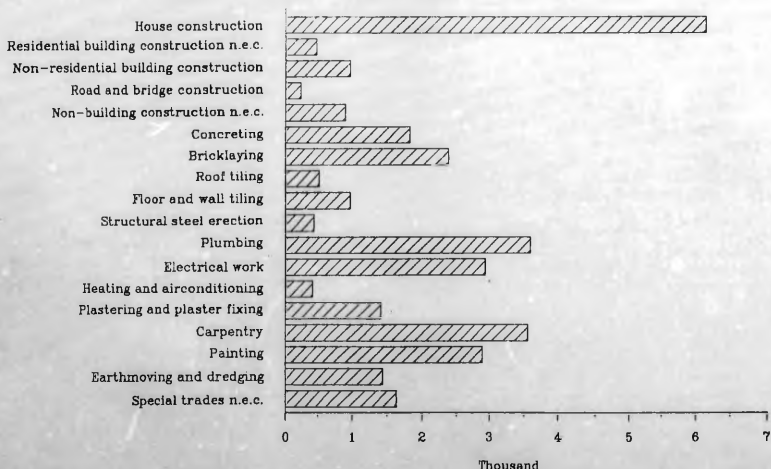
Of the 18 ASIC construction industry classes, *house construction* (ASIC 4111) in New South Wales had the highest number of establishments (6,168) and the largest average employment during 1984-85 (14,081). On-site house construction employment at 30 June 1985 was 8,780 of which the major occupations

were carpenters (5,903), foremen (1,623) and builders' labourers (522). House construction establishments had a turnover of \$1,424 million of which \$104 million was for the sale of speculative construction projects. During 1984-85 house construction establishments commenced 18,495 self-contained dwelling units.

The largest contributor to private sector construction industry turnover was *non-residential building construction* (ASIC 4113) with \$1,918 million. Non-residential building construction average employment during 1984-85 was 10,513. On-site employment at 30 June 1985 was 7,801. Major occupations were carpenters (2,247) builders' labourers (1,969) and foremen (1,472). The value of work done (in terms of prime and sub-contracts, speculative work and capital work done for own use) by non-residential building constructors was \$1,918 million. The major components of this work were new work, alterations, additions etc to offices (\$655 million), factories (\$196 million) and shops (\$181 million).

Special trade construction (ASIC Subdivision 42) establishments of the private sector construction industry in New South Wales had an average employment during 1984-85 of 66,379, and turnover of \$3,126 million. On-site employment at 30 June 1985 was 49,271 of which 2,802 were apprentices. The largest contributors to on-site employment (in terms of occupations) were plumbers (7,971), electricians (7,000), carpenters (5,743) painters (4,369) and bricklayers (4,013). The value of special trade construction work done (in terms of prime and sub-contracts, speculative work and work done for own use) was \$3,058 million. The major components of this work were the construction of new houses (\$570 million), new work, alterations, additions etc to offices (\$400 million) and alterations, additions etc to houses (\$347 million).

DIAGRAM 1: 1984-85 CONSTRUCTION INDUSTRY SURVEY:
ESTABLISHMENTS OPERATING DURING THE YEAR BY INDUSTRY CLASS,
NEW SOUTH WALES



EXPLANATORY NOTES

Introduction

This publication contains final estimates, for New South Wales from the Construction Industry Survey (CIS) of private sector construction establishments conducted in respect of 1984-85. 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 35.

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 in New South Wales is included each quarter in *Building Activity, New South Wales* (Catalogue No. 8752.1).

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, Australia wide, 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 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, New South Wales* (Catalogue No. 8752.1), *Construction (Other than Building) Activity, Australia* (Catalogue No. 8761.0) and *Employed Wage and Salary Earners, Australia* (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 page 35 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 21 of this publication. Table 21 data are the sum of prime contract, sub-contract, speculative work and work done for own use 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 22. For example, turnover for the private sector construction industry for New South Wales is estimated to be \$8,522 million with a standard error of 1.2 per cent, i.e. \$102 million; there are two chances in three that a comparable complete collection would have given a figure within the range of \$8,420 million to \$8,624 million and 19 chances in 20 that the figure would have been within the range of \$8,318 million to \$8,726 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 35 to 39.

Unpublished data and related publications

21. The ABS can 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. Users may also wish to refer to the following CIS publications:

- *Construction Industry Survey: Private Sector Construction Establishments, Australia, 1984-85, Preliminary* (8770.0)
- *Construction Industry Survey: Private Sector Construction Establishments, Summary of Operations, Australia, 1984-85* (8771.0) (\$2.30)

- *Construction Industry Survey: Private Sector Construction Establishments, Details of Operations, Australia, Other States and Territories, 1984-85* (8772.0, 8772.2-8) (\$2.30)
- *Public Sector Construction Activity Survey, Australia, 1984-85* (8775.0)

The Public Sector 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.a. not applicable
- n.e.c. not elsewhere classified
- n.e.i. not elsewhere included
- r revised from data published in Catalogue No. 8771.0 (*Construction Industry Survey: Private Sector Construction Establishments, Summary of Operations, Australia, 1984-85*)
- * high relative standard error; refer to paragraph 18 above

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: NUMBER OF ESTABLISHMENTS, EMPLOYMENT AND WAGES AND SALARIES BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	Establishments operating		Average employment over whole year			Working proprietors and partners at 30 June 1985			Employees at 30 June 1985			Employment at 30 June 1985		
		During the year	At 30 June 1985												
				Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
4111	House construction	6,168	6,080	9,813	4,268	14,081	4,724	2,386	7,110	5,180	1,933	7,113	9,905	4,319	14,224
4112	Residential building construction n.e.c.	478	470	1,407	324	1,731	263	112	375	1,210	225	1,435	1,474	336	1,810
4113	Non-residential building construction	968	961	2,923	1,270	4,193	439	188	627	8,942	1,101	10,043	9,381	1,289	10,669
411	Total building construction	7,613	7,510	20,463	5,862	26,326	5,426	2,685	8,112	15,333	3,258	18,591	20,759	5,944	26,703
4121	Road and bridge construction	231	231	3,694	380	4,074	167	118	286	3,642	263	3,905	3,809	362	4,191
4122	Non-building construction n.e.c.	904	874	8,595	1,146	9,740	522	211	733	7,924	913	8,837	8,446	1,124	9,570
412	Total non-building construction	1,135	1,105	12,289	1,526	13,814	690	329	1,019	11,566	1,177	12,742	12,255	1,506	13,761
41	Total general construction	8,748	8,615	32,752	7,388	40,140	6,116	3,014	9,130	26,899	4,435	31,334	33,015	7,449	40,464
4231	Concreting	1,829	1,485	3,927	994	4,921	1,194	486	1,680	2,774	515	3,289	3,968	1,001	4,969
4232	Bricklaying	2,387	2,334	4,693	1,040	5,732	2,659	750	3,409	1,941	290	2,231	4,600	1,040	5,641
4233	Roof tiling	519	502	703	248	952	243	100	342	443	148	591	686	248	933
4234	Floor and wall tiling	975	963	1,114	395	1,509	887	307	1,193	218	82	301	1,105	389	1,494
4241	Structural steel erection	436	425	1,527	332	1,859	*300	*186	*486	1,228	143	1,371	1,528	329	1,857
4242	Plumbing	3,600	3,513	7,591	2,364	9,955	2,573	1,187	3,760	5,039	1,221	6,260	7,612	2,408	10,020
4243	Electrical work	2,939	2,882	7,742	2,310	10,052	2,018	1,234	3,252	5,808	1,105	6,913	7,827	2,339	10,165
4244	Heating and airconditioning	416	416	2,624	512	3,137	204	130	333	2,477	397	2,874	2,681	527	3,208
4245	Plastering and plaster fixing	1,409	1,134	2,767	687	3,454	935	361	1,296	1,771	334	2,104	2,706	695	3,400
4246	Carpentry	3,569	3,236	5,748	1,218	6,966	3,264	898	4,162	2,726	269	2,995	5,990	1,167	7,157
4247	Painting	2,899	2,762	4,636	1,396	6,031	2,630	921	3,551	1,958	486	2,443	4,588	1,407	5,995
4248	Earthmoving and dredging	1,436	1,396	4,026	976	5,002	1,081	482	1,562	3,140	525	3,665	4,221	1,007	5,227
4249	Special trades n.e.c.	1,637	1,628	5,388	1,421	6,808	1,011	687	1,699	4,560	757	5,317	5,572	1,444	7,016
42	Total special trade construction	24,052	22,677	52,484	13,895	66,379	18,999	7,728	26,727	34,083	6,272	40,356	53,082	14,001	67,083
41-42	Total construction	32,800	31,292	85,236	21,282	106,519	25,115	10,743	35,858	60,982	10,707	71,689	86,097	21,450	107,547

TABLE 1. CONSTRUCTION ESTABLISHMENTS: NUMBER OF ESTABLISHMENTS, EMPLOYMENT AND WAGES AND SALARIES BY INDUSTRY CLASS,
NEW SOUTH WALES, 1984-85—continued

ASIC Code	Description	Working proprietors and partners at 30 June 1985			Employees at 30 June 1985			Employment at 30 June 1985			Wages and salaries paid to		
		On-site	Off-site	Total	On-site	Off-site	Total	On-site	Off-site	Total	On-site employees	Off-site employees	Total employees
		No.	No.	No.	No.	No.	No.	No.	No.	No.	\$'000	\$'000	\$'000
4111	House construction	4,680	2,431	7,110	4,101	3,013	7,113	8,780	5,443	14,224	61,818	38,659	100,477
4112	Residential building construction n.e.c.	254	120	375	1,061	374	1,435	1,315	494	1,810	17,568	5,674	23,242
4113	Non-residential building construction	423	203	627	7,378	2,665	10,043	7,801	2,868	10,669	176,899	58,322	235,221
411	Total building construction	5,357	2,754	8,112	12,540	6,051	18,591	17,897	8,806	26,703	256,284	102,655	358,939
4121	Road and bridge construction	167	118	286	3,097	809	3,905	3,264	927	4,191	78,808	21,270	100,079
4122	Non-building construction n.e.c.	521	212	733	6,072	2,765	8,837	6,594	2,976	9,570	146,919	61,914	208,833
412	Total non-building construction	689	330	1,019	9,169	3,573	12,742	9,858	3,903	13,761	225,728	83,184	308,912
41	Total general construction	6,046	3,084	9,130	21,709	9,625	31,334	27,755	12,709	40,464	482,012	185,839	667,851
4231	Concreting	1,191	489	1,680	2,588	702	3,289	3,778	1,191	4,969	54,373	9,121	63,494
4232	Bricklaying	2,644	765	3,409	1,918	313	2,231	4,562	1,078	5,641	28,492	2,119	30,612
4233	Roof tiling	241	101	342	388	203	591	629	304	933	5,794	2,044	7,838
4234	Floor and wall tiling	889	304	1,193	207	94	301	1,096	398	1,494	2,552	747	3,299
4241	Structural steel erection	*299	*187	*486	1,048	323	1,371	1,347	510	1,857	23,063	5,409	28,472
4242	Plumbing	2,524	1,237	3,760	4,730	1,530	6,260	7,254	2,767	10,020	84,310	18,239	102,549
4243	Electrical work	2,016	1,236	3,252	5,087	1,826	6,913	7,103	3,062	10,165	103,375	23,856	127,231
4244	Heating and airconditioning	173	161	333	1,853	1,021	2,874	2,026	1,182	3,208	36,403	19,836	56,238
4245	Plastering and plaster fixing	916	380	1,296	1,647	458	2,104	2,563	838	3,400	31,190	5,665	36,855
4246	Carpentry	3,228	934	4,162	2,623	371	2,995	5,851	1,305	7,157	45,444	4,836	50,280
4247	Painting	2,675	877	3,551	1,835	608	2,443	4,510	1,485	5,995	30,166	6,137	36,303
4248	Earthmoving and dredging	1,039	523	1,562	2,866	799	3,665	3,906	1,322	5,227	47,298	10,941	58,239
4249	Special trades n.e.c.	1,003	696	1,699	3,642	1,675	5,317	4,645	2,371	7,016	62,999	29,901	92,899
42	Total special trade construction	18,838	7,889	26,727	30,433	9,923	40,356	49,271	17,812	67,083	555,459	138,850	694,308
41-42	Total construction	24,884	10,974	35,858	52,141	19,548	71,689	77,026	30,521	107,547	1,037,471	324,689	1,362,160

DIAGRAM 2: 1984-85 CONSTRUCTION INDUSTRY SURVEY:
AVERAGE EMPLOYMENT OVER WHOLE YEAR BY INDUSTRY CLASS,
NEW SOUTH WALES

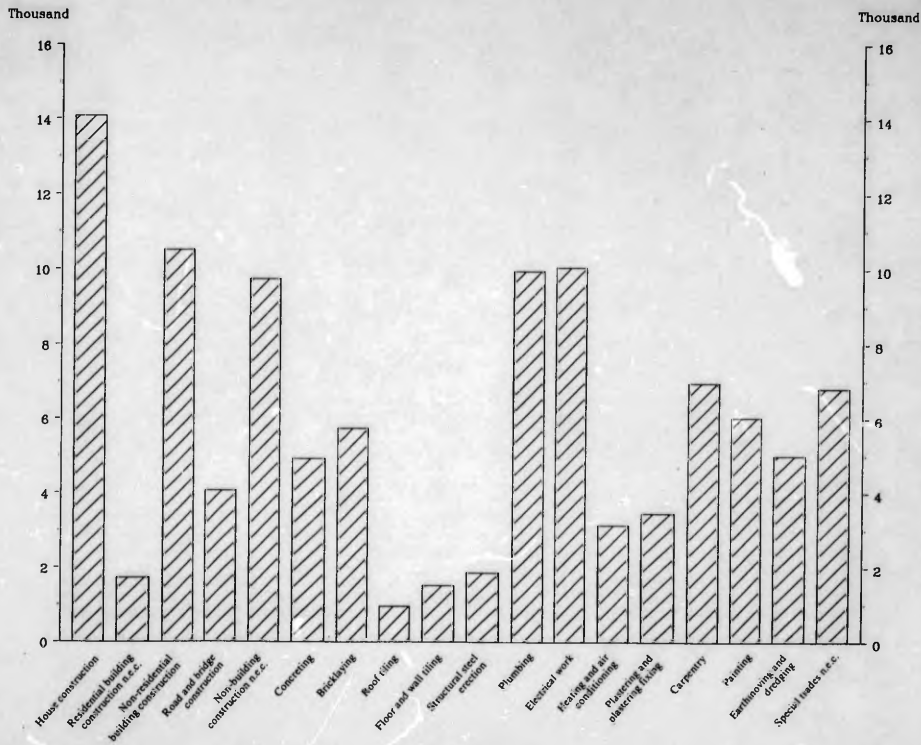


TABLE 2. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85
(\$'000)

ASIC Code	Description	Contract construction revenue	Sales of specu- lative construction projects	Capital work done for own use, rental or lease	All other oper- ating revenue	Turnover	Stocks		Pay- ments to contract- ors	Materials, fuels and other purch- ases	Other selected expen- ses	Pur- chases and selected expen- ses	Value added	Fixed capital expendi- ture less dis- posals
							At 30 June 1984	At 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	40,806
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	299,735	27,368	259,052	229,299	7,695
4244	Heating and airconditioning	254,394	(a)		5,057	259,560	13,984	20,156	16,800	146,266	9,053	172,118	93,613	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)		3,067	211,454	3,011	4,119	16,941	51,697	19,306	87,944	124,618	8,335
4247	Painting	175,129	(a)		2,249	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)		3,173	300,486	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	223,075

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

DIAGRAM 3: 1984-85 CONSTRUCTION INDUSTRY SURVEY:
 TURNOVER AND VALUE ADDED BY INDUSTRY CLASS,
 NEW SOUTH WALES

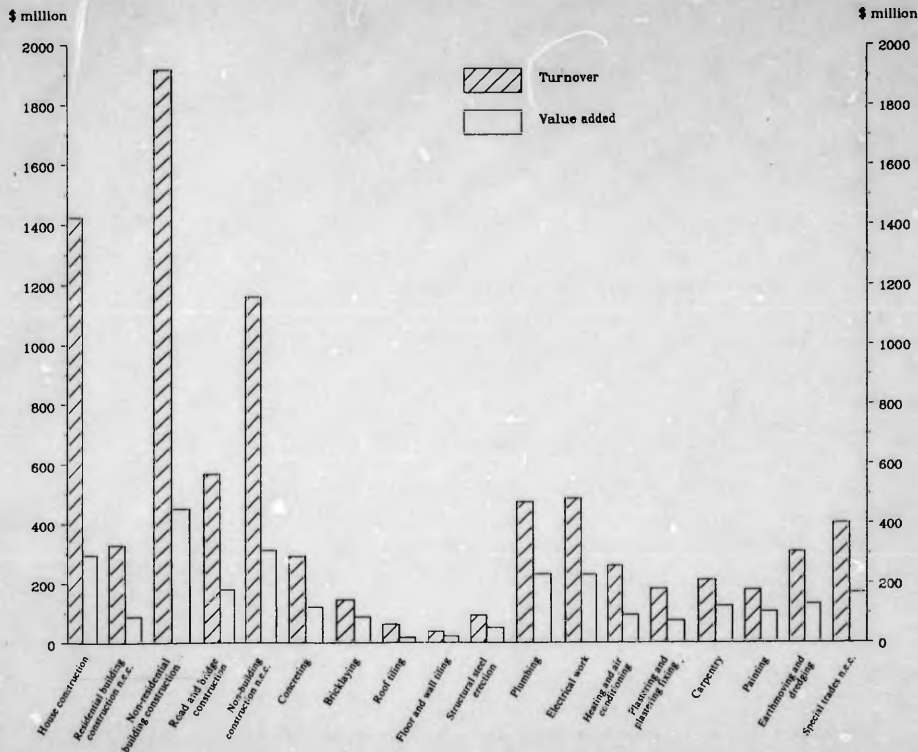


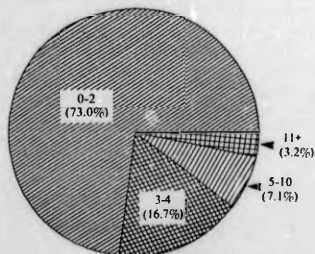
TABLE 3. CONSTRUCTION ESTABLISHMENTS: SELECTED ITEMS OF DATA BY EMPLOYMENT SIZE (a), NEW SOUTH WALES, 1984-85

	Employment size (persons)														Total
	0-2		3-4		5-10		11-20		21-50		51-100		101 and over		
	(%)		(%)		(%)		(%)		(%)		(%)		(%)		
Establishments at 30 June 1985 (No.)	22,829	(73.0)	5,240	(16.7)	2,213	(7.1)	546	(1.7)	299	(1.0)	91	(0.3)	74	(0.2)	31,292
Employees at 30 June 1985 (No.)	9,668	(13.6)	9,862	(13.9)	12,343	(17.3)	7,679	(10.8)	9,865	(13.9)	6,559	(9.2)	15,223	(21.4)	71,198
Wages and salaries paid to—															
On-site employees (\$'000)	82,030	(7.9)	110,832	(10.7)	159,956	(15.4)	114,022	(11.0)	157,522	(15.2)	104,185	(10.0)	308,924	(29.8)	1,037,471
Off-site employees (\$'000)	24,354	(7.8)	23,379	(7.5)	40,456	(13.0)	32,329	(10.4)	50,007	(16.1)	47,691	(15.3)	92,485	(29.8)	310,702
Total (\$'000)	106,384	(7.9)	134,211	(10.0)	200,412	(14.9)	146,351	(10.9)	207,529	(15.4)	151,876	(11.3)	401,409	(29.8)	1,348,173
Contract construction revenue (\$'000)	1,583,037	(19.6)	869,518	(10.7)	970,205	(12.0)	728,681	(9.0)	1,058,108	(13.1)	899,592	(11.1)	1,986,224	(24.5)	8,095,365
Sales of speculative construction projects (\$'000)	62,842	(31.3)	26,166	(13.0)	15,570	(7.7)	12,501	(6.2)	58,771	(29.2)	22,679	(11.3)	2,475	(1.2)	201,004
Turnover (\$'000)	1,670,114	(19.6)	916,423	(10.8)	1,015,404	(11.9)	754,769	(8.9)	1,169,426	(13.7)	967,901	(11.4)	2,027,731	(23.8)	8,521,768
Stocks (\$'000)—															
at 30 June 1984	78,414	(16.6)	46,664	(9.9)	48,009	(10.1)	50,512	(10.7)	133,338	(28.2)	45,017	(9.5)	71,690	(15.1)	473,645
at 30 June 1985	131,543	(20.0)	76,543	(11.7)	64,703	(9.9)	59,547	(9.1)	161,230	(24.6)	55,501	(8.5)	107,029	(16.3)	656,097
Purchases and selected expenses (\$'000)	1,114,903	(18.8)	629,492	(10.6)	673,232	(11.4)	504,773	(8.5)	835,513	(14.1)	721,374	(12.2)	1,442,485	(24.4)	5,921,773
Value added (\$'000)	608,339	(21.9)	316,810	(11.4)	358,866	(12.9)	259,030	(9.3)	361,805	(13.0)	257,011	(9.2)	620,585	(22.3)	2,782,447
Fixed capital expenditure less disposals (\$'000)	48,023	(21.5)	26,509	(11.9)	31,765	(14.2)	11,371	(5.1)	37,129	(16.6)	35,074	(15.7)	33,216	(14.9)	223,087

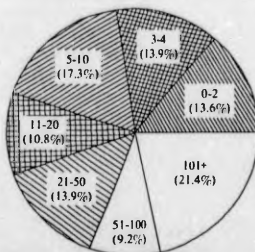
(a) Excludes central ancillary units. Refer to paragraph 4, page 35 for details.

DIAGRAM 4: 1984-85 CONSTRUCTION INDUSTRY SURVEY: SELECTED ITEMS OF DATA BY EMPLOYMENT SIZE, NEW SOUTH WALES

Establishments at 30 June 1985



Employees at 30 June 1985



Turnover

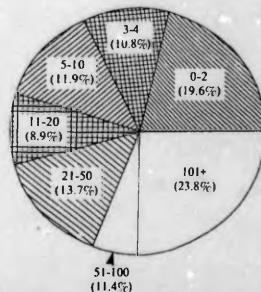


TABLE 4. CONSTRUCTION ESTABLISHMENTS: COMPONENTS OF STOCKS BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85
(\$'000)

ASIC Code	Description	Materials, fuels etc		Contract construction work- in-progress		Work-in-progress on speculative construction projects		Completed unsold speculative construction projects		Goods for sale and non-construction work-in-progress		Total stocks	
		At 30 June 1984	At 30 June 1985	At 30 June 1984	At 30 June 1985	At 30 June 1984	At 30 June 1985	At 30 June 1984	At 30 June 1985	At 30 June 1984	At 30 June 1985	At 30 June 1984	At 30 June 1985
4111	House construction	4,385	6,159	73,359	94,614	36,554	54,797	20,177	33,546	1,213	744	135,689	189,860
4112	Residential building construction n.e.c.	451	575	17,367	33,724	57,680	65,061	32,678	58,177	—	1	108,175	157,538
4113	Non-residential building construction	4,307	5,899	73,507	96,833	9,134	22,556	6,211	6,161	82	236	93,240	131,683
411	Total building construction	9,143	12,633	164,233	225,171	103,369	142,414	59,066	97,883	1,295	981	337,105	479,081
4121	Road and bridge construction	3,029	3,382	9,701	23,412	74	632	3,533	2,728	*96	121	16,432	30,274
4122	Non-building construction n.e.c.	6,467	5,240	25,117	32,326	—	285	—	—	3,790	5,371	35,374	43,222
412	Total non-building construction	9,495	8,621	34,818	55,738	74	917	3,533	2,728	3,886	5,492	51,806	73,496
41	Total general construction	18,638	21,254	199,051	280,909	103,442	143,331	62,599	100,611	5,181	6,473	388,911	552,577
4231	Concreting	1,131	971	3,389	3,598	—	—	—	—	*10	*74	4,530	4,643
4232	Bricklaying	55	61	622	831	—	—	—	—	—	—	678	892
4233	Roof tiling	445	454	813	896	—	—	—	—	41	31	1,300	1,382
4234	Floor and wall tiling	51	47	70	87	—	—	—	—	258	343	379	476
4241	Structural steel erection	407	407	8,687	9,507	—	—	—	—	258	175	9,352	10,088
4242	Plumbing	5,919	6,787	6,112	6,938	—	—	—	—	*492	219	248	14,464
4243	Electrical work	6,187	6,826	9,562	11,757	—	—	—	—	1,080	1,773	16,830	20,356
4244	Heating and airconditioning	2,699	3,402	11,062	16,353	—	—	—	—	224	401	13,984	20,156
4245	Plastering and plaster fixing	1,512	1,465	1,364	2,024	—	—	—	—	15	*174	2,891	3,663
4246	Carpentry	1,480	2,423	1,504	1,672	*6	*10	—	—	21	14	3,011	4,119
4247	Painting	1,120	1,285	536	970	—	—	—	—	*86	*147	1,742	2,402
4248	Earthmoving and dredging	1,271	1,679	3,195	4,957	—	—	—	—	79	—	4,546	6,636
4249	Special trades n.e.c.	5,686	6,816	5,462	4,945	—	—	—	—	2,095	2,483	13,243	14,244
42	Total special trade construction	27,962	32,621	52,379	64,534	*6	*10	—	*492	4,386	5,864	84,733	103,521
41-42	Total construction	46,601	53,875	251,430	345,442	103,448	143,340	62,599	101,103	9,568	12,337	473,645	656,097

TABLE 5. CONSTRUCTION ESTABLISHMENTS: FIXED CAPITAL EXPENDITURE BY TYPE OF ASSET AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85
(\$'000)

ASIC Code	Description	Capital expenditure on				Disposals of fixed tangible assets			Fixed capital expenditure less disposals		
		New fixed tangible assets			Land and secondhand assets	Disposals of fixed tangible assets		Total	Fixed capital expenditure less disposals		Total
		Buildings and other structures	Vehicles, plant and machinery	Total		Land, buildings and other structures	Vehicles, plant and machinery		Land, buildings and other structures	Vehicles, plant and machinery	
4111	House construction	5,247	15,341	20,587	9,474	6,362	6,385	12,747	*3,870	13,444	17,315
4112	Residential building construction n.e.c.	9,922	2,392	12,315	*5,579	*2,859	653	*3,512	12,183	2,200	14,382
4113	Non-residential building construction	18,572	21,851	40,423	11,830	5,872	5,574	11,446	22,370	18,436	40,806
411	Total building construction	33,741	39,584	73,325	26,883	15,093	12,612	27,705	38,423	34,080	72,503
4121	Road and bridge construction	996	13,880	14,876	5,287	843	4,283	5,125	1,855	13,182	15,037
4122	Non-building construction n.e.c.	29,051	26,052	55,102	5,161	2,226	6,300	8,527	27,749	23,987	51,736
412	Total non-building construction	30,047	39,931	69,978	10,448	3,069	10,583	13,652	29,604	37,169	66,773
41	Total general construction	63,788	79,515	143,303	37,331	18,162	23,195	41,357	68,028	71,249	139,277
4231	Concreting	*655	5,122	5,777	2,133	670	1,026	1,696	*417	5,797	6,215
4232	Bricklaying	*48	2,010	2,058	1,683	—	1,025	1,025	118	2,599	2,716
4233	Roof tiling	118	936	1,054	250	—	404	404	118	782	900
4241	Floor and wall tiling	*13	1,020	1,032	370	—	498	498	*13	892	905
4242	Structural steel erection	153	1,284	1,437	882	290	*1,010	*1,300	-111	*1,131	*1,020
4243	Plumbing	*321	9,180	9,501	4,939	178	2,887	3,064	1,131	10,245	11,376
4244	Electrical work	141	6,837	6,979	3,991	187	3,088	3,274	*645	7,050	7,695
4245	Heating and airconditioning	109	3,584	3,692	1,325	—	942	942	816	3,260	4,076
4246	Plastering and plaster fixing	114	2,636	2,751	1,433	140	1,098	1,238	254	2,691	2,945
4247	Carpentry	*473	6,299	6,772	4,171	457	2,151	2,608	714	7,621	8,335
4248	Painting	240	10,558	10,798	*3,166	38	3,379	3,416	350	10,199	10,549
4249	Earthmoving and dredging	270	20,983	21,253	13,159	280	12,388	12,668	1,861	19,883	21,744
42	Special trades n.e.c.	522	4,743	5,265	3,486	347	3,079	3,426	468	4,856	5,324
42	Total special trade construction	3,177	75,192	78,369	40,989	2,587	32,973	35,560	6,793	77,005	83,798
41-42	Total construction	66,965	154,707	221,672	78,320	20,749	56,168	76,917	74,820	148,255	223,075

TABLE 6. CONSTRUCTION ESTABLISHMENTS: ON-SITE EMPLOYMENT BY OCCUPATION AND APPRENTICES BY INDENTURE
AT 30 JUNE 1985 BY INDUSTRY CLASS, NEW SOUTH WALES

ASIC Code	Description	Boilermakers and structural steel workers	Brick- layers	Building service workers Carpenters	Communi- cations equipment workers	Construction foremen, managers, supervisors	Crane drivers, hoist and winch operators	Dogmen, crane chasers and riggers	Electrical powerline workers	Electricians and electrical fitters
ON-SITE EMPLOYMENT BY OCCUPATION (a)										
4111	House construction	—	*412	58	5,903	—	65	1,623	—	10
4112	Residential building construction n.e.c.	—	116	n.p.	533	—	8	279	n.p.	9
4113	Non-residential building construction	167	194	n.p.	2,247	—	108	1,472	n.p.	81
411	Total building construction	167	722	99	8,683	—	181	3,375	202	101
4121	Road and bridge construction	13	—	n.p.	98	—	96	424	69	n.p.
4122	Non-building construction n.e.c.	532	23	n.p.	191	—	53	77	333	n.p.
412	Total non-building construction	545	23	18	289	—	53	174	262	147
41	Total general construction	712	745	117	8,972	—	53	355	464	248
4231	Concreting	n.p.	*56	n.p.	185	—	12	2,898	82	—
4232	Bricklaying	—	3,940	—	—	—	—	21	—	—
4233	Roof tiling	—	—	n.p.	—	—	—	37	—	—
4234	Floor and wall tiling	—	n.p.	—	—	—	—	6	—	—
4241	Structural steel erection	164	—	—	n.p.	n.p.	*195	18	106	n.p.
4242	Plumbing	*22	—	—	17	—	—	118	—	n.p.
4243	Electrical work	16	—	—	—	—	—	133	n.p.	6,505
4244	Heating and airconditioning	—	—	n.p.	n.p.	—	—	88	—	374
4245	Plastering and plaster fixing	—	—	—	123	n.p.	28	—	—	—
4246	Carpentry	—	—	*9	5,228	—	6	113	n.p.	n.p.
4247	Painting	—	—	—	—	—	—	70	—	—
4248	Earthmoving and dredging	8	—	—	—	*53	206	n.p.	—	—
4249	Special trades n.e.c.	n.p.	n.p.	*845	123	469	17	144	n.p.	108
42	Total special trade construction	225	4,013	*863	5,743	469	12	2,993	1,241	7,000
41-42	Total construction	937	4,759	979	14,716	469	64	3,349	5,852	7,248
ON-SITE APPRENTICES BY INDENTURE										
41-42	Total construction	65	307	n.a.	1,488	*15	—	n.a.	n.a.	862

(a) Includes apprentices.

TABLE 6. CONSTRUCTION ESTABLISHMENTS: ON-SITE EMPLOYMENT BY OCCUPATION AND APPRENTICES BY INDENTURE
AT 30 JUNE 1985 BY INDUSTRY CLASS, NEW SOUTH WALES—continued

ASIC Code	Description	Electronic equipment workers	Floor and wall tilers	Labourers				Mechanical earthmoving plant			Motor truck drivers	Painters, decorators and signwriters	Paving and surfacing plant operators
				Builders'	Earth moving	Paving and surfacing	Railway track	Other	operators	Mechanical fitters			
ON-SITE EMPLOYMENT BY OCCUPATION (a)													
4111	House construction	—	*8	522	*3	—	—	n.p.	n.p.	—	n.p.	*50	—
4112	Residential building construction n.e.c.	—	n.p.	303	—	—	—	n.p.	n.p.	—	n.p.	9	—
4113	Non-residential building construction	n.p.	n.p.	1,969	10	4	—	40	28	16	37	100	n.p.
411	Total building construction	n.p.	13	2,794	13	4	—	48	37	16	52	158	n.p.
4121	Road and bridge construction	—	—	528	461	217	—	78	718	81	126	—	235
4122	Non-building construction n.e.c.	—	—	1,140	269	*51	56	481	248	293	99	—	n.p.
412	Total non-building construction	—	—	1,669	731	268	56	558	965	374	226	—	n.p.
41	Total general construction	n.p.	13	4,463	744	272	56	606	1,002	390	278	158	256
4231	Concreting	—	n.p.	370	n.p.	n.p.	—	*9	n.p.	n.p.	46	—	n.p.
4232	Bricklaying	—	—	576	—	—	—	*21	n.p.	—	—	—	—
4233	Roof tiling	—	*6	24	—	—	—	3	—	—	n.p.	—	—
4234	Floor and wall tiling	—	1,060	18	—	—	—	—	—	—	—	—	—
4241	Structural steel erection	—	—	62	—	—	—	n.p.	n.p.	7	—	—	—
4242	Plumbing	—	—	155	n.p.	—	—	17	48	n.p.	5	—	—
4243	Electrical work	*93	—	163	—	—	—	*40	*4	n.p.	—	n.p.	—
4244	Heating and airconditioning	—	—	*30	—	—	—	5	—	n.p.	n.p.	—	—
4245	Plastering and plaster fixing	—	n.p.	54	—	—	—	*5	—	n.p.	4	—	—
4246	Carpentry	—	—	443	—	—	—	n.p.	—	—	n.p.	—	—
4247	Painting	—	—	442	—	—	—	19	n.p.	—	—	4,344	—
4248	Earthmoving and dredging	—	—	45	993	n.p.	—	—	2,248	48	197	—	*37
4249	Special trades n.e.c.	40	*11	678	*6	—	—	40	40	50	18	n.p.	n.p.
42	Total special trade construction	n.p.	1,088	2,660	1,004	51	—	162	2,385	156	277	4,369	*59
41-42	Total construction	138	1,100	7,123	1,748	322	56	768	3,387	545	555	4,527	315
ON-SITE APPRENTICES BY INDENTURE													
41-42	Total construction	*6	32	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	9	n.a.	153	n.a.

(a) Includes apprentices.

TABLE 6. CONSTRUCTION ESTABLISHMENTS: ON-SITE EMPLOYMENT BY OCCUPATION AND APPRENTICES BY INDENTURE
AT 30 JUNE 1985 BY INDUSTRY CLASS, NEW SOUTH WALES—continued

ASIC Code	Description	Plasterers	Plumbers, drainers, gasfitters and pipe fitters	Railway track construction workers	Refrigeration and aircondi- tioning mechanics	Roof slaters and tilers	Structural steel erec- tors, scaffolders, and steel fixers and ladders	Sheet metal workers	Stone masons	Welders	Other on-site workers	Total	Total apprentices
ON-SITE EMPLOYMENT BY OCCUPATION (a)													
4111	House construction	6	53	—	n.p.	n.p.	—	n.p.	—	—	*27	8,780	683
4112	Residential building construction n.e.c.	—	14	—	—	n.p.	n.p.	—	—	—	12	1,315	94
4113	Non-residential building construction	60	133	—	n.p.	n.p.	n.p.	n.p.	—	147	158	7,801	444
411	Total building construction	67	200	—	n.p.	19	143	14	—	147	197	17,897	1,222
4121	Road and bridge construction	—	n.p.	—	—	—	n.p.	—	—	4	39	3,264	9
4122	Non-building construction n.e.c.	—	n.p.	*108	—	—	n.p.	31	n.p.	145	870	6,594	154
412	Total non-building construction	—	92	*108	—	—	260	31	n.p.	149	909	9,858	163
41	Total general construction	67	292	*108	n.p.	19	403	45	n.p.	296	1,106	27,755	1,384
4231	Concreting	5	—	—	—	—	n.p.	—	—	—	*15	3,778	n.p.
4232	Bricklaying	—	—	—	—	—	—	—	—	—	—	4,562	193
4233	Roof tiling	—	—	—	—	553	—	—	—	—	—	629	53
4234	Floor and wall tiling	—	—	—	—	—	—	—	n.p.	—	—	1,096	30
4241	Structural steel erection	—	—	—	—	—	568	n.p.	—	122	n.p.	1,347	24
4242	Plumbing	n.p.	6,816	—	—	*5	—	n.p.	—	n.p.	n.p.	7,254	769
4243	Electrical work	—	n.p.	—	n.p.	—	—	n.p.	—	n.p.	n.p.	7,103	817
4244	Heating and airconditioning	—	427	—	602	—	n.p.	423	—	n.p.	n.p.	2,026	146
4245	Plastering and plaster fixing	2,287	*30	—	—	n.p.	—	n.p.	*9	—	n.p.	2,563	111
4246	Carpentry	n.p.	n.p.	—	—	n.p.	30	—	—	—	—	5,851	379
4247	Painting	n.p.	n.p.	—	—	—	—	—	—	—	—	4,510	148
4248	Earthmoving and dredging	—	10	—	—	—	—	—	—	n.p.	n.p.	3,906	n.p.
4249	Special trades n.e.c.	16	592	—	—	21	217	200	n.p.	n.p.	819	4,645	107
42	Total special trade construction	2,334	7,971	—	n.p.	586	835	633	n.p.	140	943	49,271	2,802
41-42	Total construction	2,400	8,263	*108	642	604	1,238	677	71	436	2,049	77,026	4,186
ON-SITE APPRENTICES BY INDENTURE													
41-42	Total construction	115	904	n.a.	59	51	n.a.	23	—	10	87	4,186	

(a) Includes apprentices.

DIAGRAM 5: 1984-85 CONSTRUCTION INDUSTRY SURVEY:
ON-SITE EMPLOYMENT BY OCCUPATION,
NEW SOUTH WALES

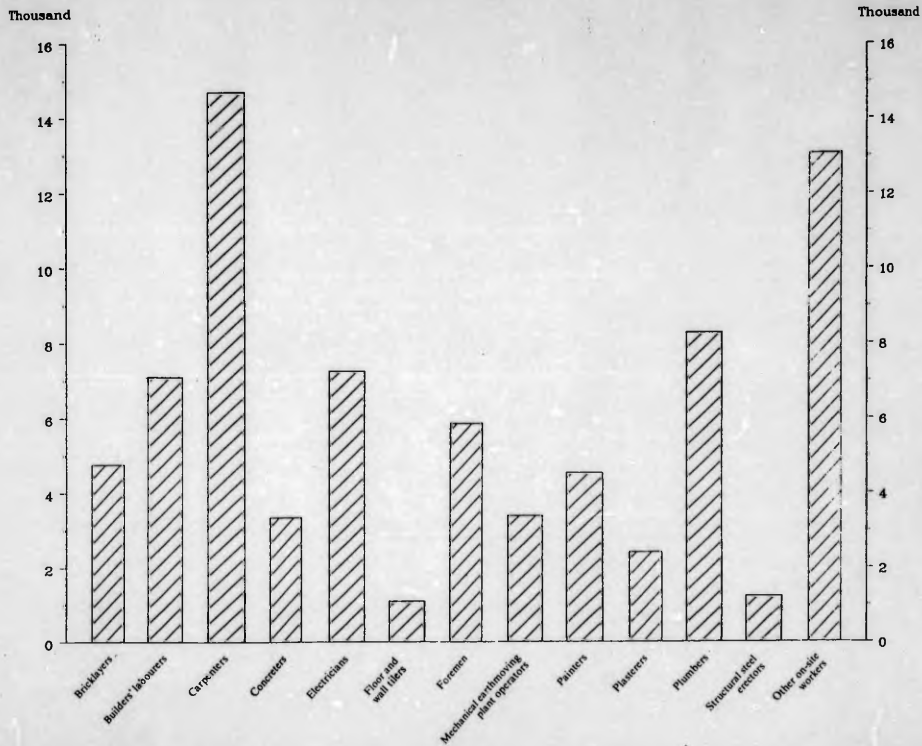


TABLE 7. CONSTRUCTION ESTABLISHMENTS: MALE EMPLOYEES(a) AT THE LAST PAY PERIOD OF EACH MONTH BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	1984							1985					
		June	July	August	September	October	November	December	January	February	March	April	May	June
4111	House construction	4,937	4,887	4,923	5,194	4,946	5,240	4,979	4,996	5,505	5,107	5,067	5,124	5,180
4112	Residential building construction n.e.c.	1,093	1,114	1,130	1,139	1,137	1,136	1,131	1,066	1,122	1,130	1,142	1,165	1,210
4113	Non-residential building construction	8,693	8,769	8,821	8,748	8,876	8,883	8,627	8,604	8,766	8,734	8,746	8,758	8,921
411	Total building construction	14,722	14,770	14,873	15,080	14,959	15,259	14,738	14,667	15,394	14,971	14,956	15,046	15,312
4121	Road and bridge construction	3,443	3,494	3,464	3,463	3,443	3,438	3,393	3,432	3,492	3,517	3,544	3,570	3,601
4122	Non-building construction n.e.c.	7,942	7,860	7,946	8,180	8,204	8,024	8,076	8,084	7,936	7,950	7,596	7,705	7,783
412	Total non-building construction	11,385	11,354	11,409	11,643	11,647	11,463	11,469	11,516	11,428	11,466	11,139	11,275	11,384
41	Total general construction	26,107	26,124	26,283	26,723	26,606	26,721	26,207	26,182	26,821	26,437	26,095	26,321	26,696
4231	Concreting	2,578	2,625	2,775	2,766	2,801	2,791	2,733	2,692	2,713	2,711	2,756	2,851	2,774
4232	Bricklaying	1,875	2,034	2,042	2,034	1,969	2,207	1,822	1,862	1,964	1,956	1,927	2,017	1,941
4233	Roof tiling	452	449	450	454	460	467	455	457	463	455	433	443	443
4234	Floor and wall tiling	203	206	218	224	223	239	235	221	242	237	227	217	218
4241	Structural steel erection	1,118	1,155	1,212	1,253	1,319	1,210	1,258	1,254	1,243	1,241	1,206	1,190	1,228
4242	Plumbing	4,993	5,052	5,059	5,080	5,120	5,007	5,001	4,924	5,135	5,019	5,164	5,059	5,039
4243	Electrical work	5,536	5,631	5,650	5,746	5,762	5,765	5,813	5,740	5,799	5,764	5,756	5,842	5,808
4244	Heating and airconditioning	2,251	2,260	2,224	2,290	2,297	2,411	2,400	2,770	2,489	2,456	2,484	2,483	2,477
4245	Plastering and plaster fixing	2,052	1,939	1,896	1,890	1,891	1,837	1,820	1,763	1,823	1,858	1,840	1,891	1,771
4246	Carpentry	2,370	2,359	2,359	2,361	2,442	2,458	2,473	2,582	2,600	2,539	2,710	2,688	2,726
4247	Painting	1,946	1,961	1,961	1,953	2,073	2,007	2,003	1,999	2,011	1,948	1,991	2,006	1,956
4248	Earthmoving and dredging	2,793	2,797	2,777	2,803	2,902	2,958	2,975	3,004	3,114	3,127	3,133	3,153	3,140
4249	Special trades n.e.c.	3,997	4,074	4,082	4,101	4,074	4,183	4,316	4,234	4,235	4,418	4,333	4,364	4,410
42	Total special trade construction	32,164	32,541	32,705	32,955	33,333	33,538	33,504	33,503	33,832	33,728	33,960	34,193	33,931
41-42	Total construction	58,271	58,665	58,987	59,678	59,939	60,259	59,711	59,686	60,653	60,165	60,056	60,515	60,627

(a) Employees of construction establishments excluding central ancillary units. Refer to paragraph 4, page 35 for details.

TABLE 8. CONSTRUCTION ESTABLISHMENTS: FEMALE EMPLOYEES(a) AT THE LAST PAY PERIOD OF EACH MONTH BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

		1984						1985						
ASIC Code	Description	June	July	August	September	October	November	December	January	February	March	April	May	June
4111	House construction	1,845	1,844	1,862	1,857	1,857	1,844	1,856	1,851	1,867	1,877	1,901	1,878	1,933
4112	Residential building construction n.e.c.	222	222	225	212	212	212	212	214	216	213	218	220	225
4113	Non-residential building construction	1,065	1,077	1,066	1,058	1,051	1,058	1,070	1,071	1,072	1,081	1,080	1,097	1,099
411	Total building construction	3,132	3,144	3,153	3,127	3,120	3,114	3,138	3,135	3,155	3,171	3,199	3,195	3,256
4121	Road and bridge construction	256	258	254	251	249	250	254	252	252	254	252	253	258
4122	Non-building construction n.e.c.	860	840	842	857	860	865	883	869	874	871	868	868	859
412	Total non-building construction	1,116	1,098	1,096	1,107	1,109	1,115	1,137	1,121	1,126	1,125	1,120	1,121	1,118
41	Total general construction	4,248	4,241	4,248	4,234	4,229	4,228	4,274	4,256	4,281	4,296	4,319	4,317	4,374
4231	Concreting	504	509	508	505	506	506	505	505	516	515	517	515	515
4232	Bricklaying	462	465	466	290	290	290	290	291	287	287	287	287	290
4233	Roof tiling	147	147	147	147	146	146	146	148	147	147	145	146	148
4234	Floor and wall tiling	86	86	89	89	86	89	91	90	87	87	82	82	82
4241	Structural steel erection	135	139	140	146	143	144	146	144	146	142	141	141	143
4242	Plumbing	1,176	1,180	1,181	1,181	1,159	1,160	1,170	1,161	1,208	1,212	1,213	1,216	1,221
4243	Electrical work	1,049	1,045	1,058	1,055	1,064	1,067	1,061	1,066	1,073	1,093	1,092	1,115	1,105
4244	Heating and airconditioning	319	324	323	325	306	350	349	388	398	397	399	397	397
4245	Plastering and plaster fixing	367	363	340	340	326	326	327	324	325	319	325	338	334
4246	Carpentry	304	299	303	303	319	320	317	299	281	265	266	268	269
4247	Painting	448	459	459	452	454	470	470	469	474	476	477	476	482
4248	Earthmoving and dredging	456	456	459	461	461	493	492	491	492	494	491	462	525
4249	Special trades n.e.c.	667	652	650	646	650	657	654	656	667	672	672	679	686
42	Total special trade construction	6,122	6,126	6,125	5,940	5,911	6,020	6,020	6,031	6,102	6,107	6,107	6,122	6,197
41-42	Total construction	10,369	10,367	10,373	10,175	10,140	10,248	10,294	10,288	10,383	10,403	10,426	10,439	10,571

(a) Employees of construction establishments excluding central ancillary units. Refer to paragraph 4, page 35 for details.

TABLE 9. CONSTRUCTION ESTABLISHMENTS: TOTAL EMPLOYEES(a) AT THE LAST PAY PERIOD OF EACH MONTH BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	1984							1985					
		June	July	August	September	October	November	December	January	February	March	April	May	June
4111	House construction	6,782	6,731	6,784	7,050	6,803	7,083	6,835	6,846	7,372	6,984	6,969	7,002	7,113
4112	Residential building construction n.e.c.	1,315	1,336	1,354	1,350	1,349	1,347	1,343	1,280	1,338	1,343	1,360	1,385	1,435
4113	Non-residential building construction	9,758	9,846	9,887	9,806	9,927	9,941	9,698	9,675	9,838	9,815	9,826	9,855	10,020
411	Total building construction	17,854	17,914	18,026	18,207	18,079	18,372	17,875	17,802	18,548	18,141	18,155	18,242	18,568
4121	Road and bridge construction	3,699	3,751	3,717	3,714	3,692	3,688	3,646	3,685	3,745	3,771	3,796	3,823	3,859
4122	Non-building construction n.e.c.	8,802	8,700	8,788	9,036	9,064	8,889	8,959	8,952	8,810	8,820	8,463	8,573	8,642
412	Total non-building construction	12,501	12,451	12,505	12,750	12,756	12,577	12,606	12,637	12,554	12,591	12,260	12,396	12,501
41	Total general construction	30,355	30,365	30,531	30,957	30,835	30,950	30,481	30,439	31,103	30,733	30,415	30,638	31,070
4231	Concreting	3,082	3,134	3,284	3,271	3,307	3,297	3,238	3,198	3,228	3,227	3,273	3,365	3,289
4232	Bricklaying	2,337	2,499	2,508	2,325	2,259	2,498	2,112	2,152	2,251	2,243	2,214	2,304	2,231
4233	Roof tiling	599	596	597	601	606	613	601	605	610	602	578	579	591
4234	Floor and wall tiling	289	293	307	313	309	327	325	311	330	324	310	300	301
4241	Structural steel erection	1,253	1,294	1,352	1,400	1,462	1,354	1,404	1,398	1,389	1,383	1,348	1,331	1,371
4242	Plumbing	6,169	6,232	6,240	6,261	6,279	6,167	6,170	6,085	6,343	6,231	6,376	6,275	6,260
4243	Electrical work	6,585	6,676	6,708	6,801	6,826	6,832	6,874	6,806	6,872	6,857	6,848	6,957	6,913
4244	Heating and airconditioning	2,570	2,584	2,547	2,614	2,602	2,761	2,750	3,158	2,887	2,853	2,884	2,881	2,874
4245	Plastering and plaster fixing	2,419	2,302	2,237	2,230	2,218	2,163	2,147	2,008	2,148	2,177	2,165	2,229	2,104
4246	Carpentry	2,674	2,658	2,662	2,664	2,762	2,778	2,789	2,881	2,882	2,804	2,976	2,956	2,995
4247	Painting	2,394	2,419	2,420	2,405	2,527	2,477	2,473	2,469	2,485	2,424	2,468	2,482	2,437
4248	Earthmoving and dredging	3,249	3,253	3,236	3,264	3,362	3,451	3,467	3,495	3,606	3,622	3,624	3,614	3,665
4249	Special trades n.e.c.	4,664	4,727	4,732	4,747	4,725	4,841	5,171	4,890	4,902	5,089	5,004	5,043	5,096
42	Total special trade construction	38,286	38,667	38,830	38,896	39,244	39,558	39,523	39,534	39,934	39,835	40,067	40,316	40,120
41-42	Total construction	68,640	69,032	69,361	69,852	70,079	70,508	70,004	69,973	71,036	70,568	70,482	70,954	71,198

(a) Employees of construction establishments excluding central ancillary units. Refer to paragraph 4, page 35 for details.

TABLE 10. CONSTRUCTION ESTABLISHMENTS: SELECTED RATIOS FOR ESTABLISHMENTS OPERATING DURING 1984-85
BY INDUSTRY CLASS, NEW SOUTH WALES

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	
4111	House construction	0.21	21.0	0.3	2.3	231	48
4112	Residential building construction n.e.c.	0.27	51.5	0.3	3.6	688	187
4113	Non-residential building construction	0.24	43.0	0.5	10.9	1,981	466
411	Total building construction	0.23	131.7	0.4	13.5	482	110
4121	Road and bridge construction	0.32	44.5	0.6	17.4	2,451	775
4122	Non-building construction n.e.c.	0.27	32.7	0.6	10.6	1,283	345
412	Total non-building construction	0.28	36.2	0.6	12.0	1,521	433
41	Total general construction	0.25	133.1	0.5	14.6	617	152
4231	Concreting	0.41	24.5	0.5	2.7	159	66
4232	Bricklaying	0.60	15.2	0.4	2.4	61	37
4233	Roof tiling	0.30	19.2	0.4	1.8	119	35
4234	Floor and wall tiling	0.60	15.1	0.1	1.5	39	23
4241	Structural steel erection	0.56	27.5	0.6	4.3	210	117
4242	Plumbing	0.49	23.1	0.4	2.8	131	64
4243	Electrical work	0.47	22.8	0.6	3.4	165	78
4244	Heating and airconditioning	0.36	29.8	0.6	7.5	624	225
4245	Plastering and plaster fixing	0.41	21.5	0.5	2.5	129	53
4246	Carpentry	0.59	17.9	0.4	2.0	59	35
4247	Painting	0.59	17.3	0.3	2.1	61	36
4248	Earthmoving and dredging	0.43	26.1	0.4	3.5	214	91
4249	Special trades n.e.c.	0.42	25.6	0.5	4.0	246	103
42	Total special trade construction	0.47	22.0	0.5	2.8	130	61
41-42	Total construction	0.33	126.1	0.5	13.2	260	85

TABLE 11. CONSTRUCTION ESTABLISHMENTS: NUMBER OF ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR AND TURNOVER BY TURNOVER SIZE AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	Less than \$50,000		\$50,000 but less than \$100,000		\$100,000 but less than \$500,000		\$500,000 but less than \$1,000,000		\$1,000,000 but less than \$5,000,000		\$5,000,000 and over		Total	
		Estab-lish-ments	Turn-over	Estab-lish-ments	Turn-over	Estab-lish-ments	Turn-over	Estab-lish-ments	Turn-over	Estab-lish-ments	Turn-over	Estab-lish-ments	Turn-over	Estab-lish-ments	Turn-over
		No.	\$'000	No.	\$'000	No.	\$'000	No.	\$'000	No.	\$'000	No.	\$'000	No.	\$'000
4111	House construction	2,024	57,233	1,278	98,368	2,317	477,258	197	136,334	152	291,473	23	340,467	5,991	1,401,133
4112	Residential building construction n.e.c.	60	1,781	*59	*5,291	222	50,299	42	30,380	62	113,342	13	123,920	458	325,014
4113	Non-residential building construction	131	3,739	137	9,691	373	89,546	101	72,903	142	306,477	69	1,434,118	954	1,916,474
411	Total building construction	2,215	62,753	1,474	113,350	2,912	617,103	340	239,617	356	711,292	105	1,898,506	7,402	3,642,621
4121	Road and bridge construction	*12	*575	*24	*2,301	91	23,516	30	21,924	45	97,752	28	420,470	231	566,539
4122	Non-building construction n.e.c.	117	3,328	204	15,026	371	92,687	97	57,381	30	66,525	43	918,622	862	1,153,568
412	Total non-building construction	129	3,903	228	17,328	462	116,203	127	79,305	75	164,276	71	1,339,092	1,093	1,720,107
41	Total general construction	2,344	66,655	1,703	130,677	3,374	733,306	467	318,922	431	875,569	176	3,237,598	8,495	5,362,727
4231	Concreting	591	16,442	250	18,462	546	113,224	60	38,138	37	n.p.	1	n.p.	1,484	289,266
4232	Bricklaying	1,322	33,416	770	54,919	193	38,225	11	8,036	4	6,701	—	—	2,300	141,296
4233	Roof tiling	305	6,130	47	3,366	126	31,696	16	12,791	4	6,444	—	—	499	60,428
4234	Floor and wall tiling	840	24,290	94	6,118	23	3,842	5	3,968	—	—	—	—	963	38,217
4241	Structural steel erection	*284	*11,377	30	1,882	75	17,775	23	14,402	9	n.p.	2	n.p.	423	89,744
4242	Plumbing	1,071	34,061	1,197	86,099	937	172,665	54	37,685	53	n.p.	1	n.p.	3,313	434,334
4243	Electrical work	1,255	41,509	789	53,389	712	146,103	59	38,788	33	57,425	13	142,796	2,860	480,011
4244	Heating and airconditioning	94	2,024	80	6,462	149	28,403	23	16,184	32	72,022	7	133,225	385	258,320
4245	Plastering and plaster fixing	445	9,220	369	27,498	230	44,311	49	36,108	23	n.p.	1	n.p.	1,117	170,634
4246	Carpentry	2,545	61,161	335	22,567	271	45,362	27	18,302	13	n.p.	5	n.p.	3,197	201,348
4247	Painting	1,974	54,056	497	34,853	230	37,795	25	16,191	15	n.p.	1	n.p.	2,742	174,643
4248	Earthmoving and dredging	489	17,879	413	30,068	326	81,842	44	31,815	53	99,801	5	40,644	1,329	302,049
4249	Special trades n.e.c.	586	18,121	298	19,911	561	99,750	71	48,879	63	127,186	8	80,321	1,587	394,168
42	Total special trade construction	11,800	329,684	5,169	365,595	4,378	860,993	469	321,288	340	653,937	44	502,960	22,200	3,034,456
41-42	Total construction	14,144	396,339	6,872	496,272	7,752	1,594,298	936	640,211	772	1,529,505	220	3,740,558	30,695	8,397,184

TABLE 12. CONSTRUCTION ESTABLISHMENTS WITH ZERO EMPLOYEES — SELECTED ITEMS OF DATA BY INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	Establishments operating		Working proprietors and partners at 30 June 1985	Contract construction revenue	Sales of speculative construction projects	Turnover	Stocks		Purchases and selected expenses	Value added	Fixed capital expenditure less disposals
		During the year	At 30 June 1985					At 30 June 1984	At 30 June 1985			
		No.	No.	No.	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
4111	House construction	3,389	3,334	5,246	240,569	9,469	253,415	14,051	32,120	201,367	70,117	*2,492
4112	Residential building construction n.e.c.	143	139	235	*42,904	9,126	54,462	10,853	13,126	48,759	7,977	2,491
4113	Non-residential building construction	219	216	344	19,521	—	19,633	314	*707	15,032	4,994	723
411	Total building construction	3,751	3,689	5,825	302,994	18,594	327,510	25,218	45,954	265,158	83,088	5,706
4121	Road and bridge construction	*52	*52	*150	*9,514	—	*9,514	51	34	*6,335	*3,162	814
4122	Non-building construction n.e.c.	161	149	243	16,085	—	16,153	*310	*418	12,461	3,800	1,079
412	Total non-building construction	213	201	393	25,599	—	25,667	*361	452	18,796	6,962	1,892
41	Total general construction	3,964	3,890	6,218	328,593	18,594	353,178	25,579	46,406	283,955	90,050	7,598
4231	Concreting	1,091	751	1,235	48,937	—	49,497	*118	*120	29,769	19,730	*1,319
4232	Bricklaying	1,282	1,266	1,898	42,639	—	43,838	*166	*129	23,235	20,565	996
4233	Roof tiling	*287	*279	195	8,379	—	8,440	113	105	5,026	3,406	141
4234	Floor and wall tiling	779	774	1,044	23,173	—	23,307	41	46	7,218	16,094	498
4241	Structural steel erection	*264	*262	*438	*11,170	—	*11,218	*574	—	1,776	*8,867	*288
4242	Plumbing	1,491	1,424	2,241	95,537	—	95,802	1,161	1,328	35,449	*60,521	4,117
4243	Electrical work	1,342	1,319	2,144	56,930	—	57,248	2,346	2,553	33,562	23,894	2,394
4244	Heating and airconditioning	*89	*89	*129	*6,869	—	*6,917	—	*5,176	*1,740	*21	
4245	Plastering and plaster fixing	821	572	920	37,558	—	38,044	186	249	20,650	17,458	*770
4246	Carpentry	2,505	2,192	2,787	68,171	—	69,261	45	*123	29,208	40,130	3,493
4247	Painting	1,913	1,836	2,624	59,376	—	59,899	276	298	25,539	34,382	6,536
4248	Earthmoving and dredging	690	653	998	33,971	—	35,760	*32	*266	20,913	15,081	*3,035
4249	Special trades n.e.c.	672	672	1,311	41,450	—	41,729	426	802	24,781	17,325	885
42	Total special trade construction	13,226	12,088	17,962	534,159	—	540,960	5,484	6,020	262,302	279,193	23,918
41-42	Total construction	17,191	15,978	24,180	862,752	18,594	894,137	31,064	52,426	546,256	369,242	31,516

**TABLE 13. CONSTRUCTION ESTABLISHMENTS: LAND TRANSACTIONS AND BUILDING DEVELOPMENT AND APPROVAL FEES AND CHARGES DURING 1984-85
BY INDUSTRY CLASS, NEW SOUTH WALES**

Establishments involved in land transactions during 1984-85											
ASIC Code	Description	Income from speculative projects sold during 1984-85			Value of land transactions during 1984-85					Establishments paying building development and approval fees and charges during 1984-85	
		Completed before 1 July 1984	Completed during 1984-85	Purchased	Sold without further improve- ment	Land sold with speculative projects					
						Sale price	Acquisition cost	Cost of improve- ments			
		No.	\$' 000	\$' 000	\$' 000	\$' 000	\$' 000	\$' 000	\$' 000	No.	\$' 000
4111	House construction	487	17,775	85,872	48,409	5,975	54,493	41,075	11,904	3,064	8,381
4112	Residential building construction n.e.c.	212	23,136	57,213	21,125	19,328	37,659	24,833	2,859	313	1,519
4113	Non-residential building construction	18	n.p.	n.p.	6,793	1,466	n.p.	n.p.	n.p.	333	3,386
411	Total building construction	717	n.p.	n.p.	76,327	26,769	n.p.	n.p.	n.p.	3,710	13,286
4121	Road and bridge construction	1	n.p.	n.p.	—	—	n.p.	n.p.	n.p.	28	49
4122	Non-building construction n.e.c.	1	—	n.p.	—	—	n.p.	n.p.	n.p.	186	528
412	Total non-building construction	2	n.p.	n.p.	—	—	n.p.	n.p.	n.p.	214	576
41	Total general construction	719	48,016	152,988	76,327	26,769	97,488	69,127	16,020	3,924	13,862
4231	Concreting	—	—	—	—	—	—	—	—	159	80
4232	Bricklaying	—	—	—	—	—	—	—	—	101	21
4233	Roof tiling	*2	—	—	—	—	—	—	—	*8	9
4234	Floor and wall tiling	—	—	—	—	—	—	—	—	14	3
4241	Structural steel erection	—	—	—	—	—	—	—	—	3	5
4242	Plumbing	*48	—	—	—	—	—	—	—	953	1,024
4243	Electrical work	1	—	—	—	(a)	—	—	—	250	144
4244	Heating and airconditioning	—	—	—	—	—	—	—	—	19	27
4245	Plastering and plaster fixing	—	—	—	—	—	—	—	—	131	31
4246	Carpentry	*26	—	—	—	—	—	—	—	*411	93
4247	Painting	—	—	—	—	—	—	—	—	*42	*39
4248	Earthmoving and dredging	—	—	—	—	—	—	—	—	*16	13
4249	Special trades n.e.c.	*4	—	—	—	—	—	—	—	45	95
42	Total special trade construction	81	—	—	*831	*585	—	—	—	2,133	1,584
41-42	Total construction	800	48,016	152,988	77,158	27,354	97,488	69,127	16,020	6,077	15,447

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

**TABLE 14. CONSTRUCTION ESTABLISHMENTS: NUMBER OF ESTABLISHMENTS INVOLVED IN COMMENCING SELF-CONTAINED (S.C.) DWELLING UNITS
BY NUMBER OF UNITS AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85**

ASIC Code	Description	1-4 S.C. units		5-9 S.C. units		10-19 S.C. units		20-49 S.C. units		50-99 S.C. units		100 S.C. units and over		Total	
		Estab- lish- ments	Units comm- enced	Estab- lish- ments	Units comm- enced	Estab- lish- ments	Units comm- enced	Estab- lish- ments	Units comm- enced	Estab- lish- ments	Units comm- enced	Estab- lish- ments	Units comm- enced	Estab- lish- ments	Units comm- enced
DETACHED HOUSES															
4111	House construction	1,842	3,471	308	1,796	103	1,355	102	3,039	8	614	24	6,956	2,387	17,232
4112	Residential building construction n.e.c.	133	301	*6	*39	3	n.p.	—	—	*10	n.p.	—	—	152	*984
4113	Non-residential building construction	101	128	13	76	1	n.p.	3	113	1	n.p.	—	—	119	406
4121- 4249	All other industry classes	*40	*73	—	—	—	—	—	—	—	—	—	—	*40	*73
41-42	Total construction	2,116	3,973	327	1,911	107	1,420	105	3,152	19	1,283	24	6,956	2,698	18,695
OTHER RESIDENTIAL BUILDINGS															
		(a)	(b)												
4111	House construction	275	737			*13	*189	3	99	1	n.p.	1	n.p.	293	1,263
4112	Residential building construction n.e.c.	216	839			66	915	49	1,474	7	501	12	1,669	351	5,398
4113	Non-residential building construction	15	52			18	227	12	364	3	n.p.	2	n.p.	50	1,182
4121- 4249	All other industry classes	*5	*24	—	—	—	—	—	—	—	—	—	—	*5	*24
41-42	Total construction	511	1,652	97	1,330	65	1,936	11	844	15	2,104	698	7,866		
TOTAL RESIDENTIAL BUILDINGS(c)															
		(a)	(b)												
4111	House construction	2,162	5,768			102	1,332	116	3,459	9	678	24	7,257	2,413	18,495
4112	Residential building construction n.e.c.	224	989			65	899	48	1,320	7	538	22	2,636	366	6,382
4113	Non-residential building construction	116	236			17	234	13	410	4	242	3	465	153	1,587
4121- 4249	All other industry classes	*45	*97	—	—	—	—	—	—	—	—	—	—	*45	*97
41-42	Total construction	2,546	7,090	185	2,466	177	5,189	20	1,458	49	10,358	2,977	26,561		

(a) Number of establishments commencing 1-9 self-contained dwelling units. (b) Number of units commenced by establishments commencing 1-9 self-contained dwelling units. (c) Total residential buildings does not necessarily equal the sum of detached houses and other residential buildings because some establishments commenced both detached houses and other residential buildings in varying numbers.

TABLE 15. CONSTRUCTION ESTABLISHMENTS: NUMBER OF ESTABLISHMENTS INVOLVED IN COMMENCING SELF-CONTAINED (S.C.) DWELLING UNITS BY EMPLOYMENT SIZE AND INDUSTRY CLASS, NEW SOUTH WALES 1984-85

DWELLING UNITS BY EMPLOYMENT SIZE AND INDUSTRY CLASSIFICATION															
ASIC Code	Description	0-2 employment		3-4 employment		5-10 employment		11-20 employment		21-50 employment		51 employment and over		Total	
		Estab-lish-ments	S.C. units commenced	Estab-lish-ments	S.C. units commenced	Estab-lish-ments	S.C. units commenced	Estab-lish-ments	S.C. units commenced	Estab-lish-ments	S.C. units commenced	Estab-lish-ments	S.C. units commenced	Estab-lish-ments	S.C. units commenced
DETACHED HOUSES															
4111	House construction	1,618	4,971	547	2,722	182	2,241	25	1,883	8	n.p.	7	n.p.	2,387	17,232
4112	Residential building construction n.e.c.	83	n.p.	43	*732	19	76	5	25	1	n.p.	—	—	152	984
4113	Non-residential building construction	46	n.p.	30	61	29	143	9	22	3	82	2	n.p.	119	406
4121-4249	All other industry classes	*14	*14	*23	*51	—	—	3	8	—	—	—	—	*40	*73
41-42	Total construction	1,761	5,186	643	3,566	230	2,460	43	1,938	12	2,038	9	3,506	2,698	18,695
OTHER RESIDENTIAL BUILDINGS															
4111	House construction	184	468	60	295	42	186	5	76	1	n.p.	1	n.p.	293	1,263
4112	Residential building construction n.e.c.	197	n.p.	91	910	37	552	13	668	10	n.p.	3	411	351	5,398
4113	Non-residential building construction	1	n.p.	*8	40	14	210	10	146	10	530	7	n.p.	50	1,182
4121-4249	All other industry classes	*5	*24	—	—	—	—	—	—	—	—	—	—	*5	*24
41-42	Total construction	387	2,207	159	1,246	93	949	28	890	21	1,824	11	751	698	7,866
TOTAL RESIDENTIAL BUILDINGS(a)															
4111	House construction	1,634	5,439	556	3,017	183	2,428	25	1,959	8	2,098	7	3,554	2,413	18,495
4112	Residential building construction n.e.c.	210	1,855	92	*1,643	37	629	14	693	10	1,152	3	411	366	6,382
4113	Non-residential building construction	47	62	37	101	34	353	15	168	12	612	8	292	153	1,587
4121-4249	All other industry classes	*19	*38	*23	*51	—	—	3	8	—	—	—	—	*45	*97
41-42	Total construction	1,910	7,393	708	4,811	254	3,410	58	2,828	30	3,862	18	4,257	2,977	26,561

(a) The total number of establishments involved in commencing self-contained dwelling units in total residential buildings does not necessarily equal the sum of establishments commencing detached houses and other residential buildings because some establishments commenced both types of self-contained dwelling units.

TABLE 16. CONSTRUCTION ESTABLISHMENTS: NUMBER OF SELF-CONTAINED DWELLING UNITS COMMENCED BY OWNERSHIP AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	Private sector			Public sector			Total		
		Detached houses	Other residential building units	Total	Detached houses	Other residential building units	Total	Detached houses	Other residential building units	Total
4111	House construction	16,077	1,031	17,109	1,154	232	1,386	17,232	1,263	18,495
4112	Residential building construction n.e.c.	315	3,939	4,255	*669	1,458	2,127	*984	5,398	6,382
4113	Non-residential building construction	371	659	1,029	*35	523	558	406	1,182	1,587
4121-4249	All other industry classes	*73	*24	*97	—	—	—	*73	*24	*97
41-42	Total construction	16,837	5,653	22,490	1,858	2,213	4,070	18,695	7,866	26,561

TABLE 17. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION WORK DONE ON PRIME CONTRACT BUILDING PROJECTS BY OWNERSHIP OF PROJECT AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	Private sector		Public sector		Total	
		Number of establishments	Value	Number of establishments	Value	Number of establishments(a)	Value
			\$' 000		\$' 000		\$' 000
4111	House construction	5,385	1,151,808	682	n.p.	5,495	n.p.
4112	Residential building construction n.e.c.	321	158,327	87	n.p.	362	n.p.
4113	Non-residential building construction	878	1,431,109	292	308,992	897	1,740,101
411	Total building construction	6,583	2,741,244	1,060	471,434	6,734	3,212,679
4121	Road and bridge construction	*23	635	*13	*211	36	846
4122	Non-building construction n.e.c.	66	9,473	*18	*525	66	9,998
412	Total non-building construction	89	10,108	*31	*736	102	10,844
41	Total general construction	6,672	2,751,353	1,092	472,170	6,856	3,223,523
4231	Concreting	850	26,721	87	8,360	877	35,081
4232	Bricklaying	476	n.p.	73	n.p.	501	*17,188
4233	Roof tiling	141	14,623	21	942	146	15,565
4234	Floor and wall tiling	289	6,315	48	n.p.	293	n.p.
4241	Structural steel erection	43	11,566	15	1,632	44	13,198
4242	Plumbing	2,521	128,609	582	21,185	2,588	149,795
4243	Electrical work	2,074	107,413	582	38,114	2,171	145,527
4244	Heating and airconditioning	231	n.p.	112	n.p.	243	n.p.
4245	Plastering and plaster fixing	481	12,706	30	888	481	13,593
1246	Carpentry	911	34,142	105	n.p.	945	n.p.
4247	Painting	1,760	68,106	345	11,549	1,816	79,655
4248	Earthmoving and dredging	289	5,755	*17	*1,770	302	7,525
4249	Special trades n.e.c.	700	96,842	232	17,502	790	114,344
42	Total special trade construction	10,766	583,493	2,249	124,542	11,197	708,035
41-42	Total construction	17,438	3,334,846	3,341	596,712	18,053	3,931,558

(a) The total number of establishments is not necessarily the sum of private sector and public sector components because some establishments undertook work for both sectors.

TABLE 18. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION WORK DONE ON PRIME CONTRACT ENGINEERING PROJECTS BY OWNERSHIP OF PROJECT AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	Private sector		Public sector		Total	
		Number of establishments	Value	Number of establishments	Value	Number of establishments(a)	Value
			\$'000		\$'000		\$'000
4111	House construction	12	580	1	n.p.	13	n.p.
4112	Residential building construction n.e.c.	—	—	1	n.p.	1	n.p.
4113	Non-residential building construction	24	2,669	16	42,614	34	45,283
411	Total building construction	36	3,250	18	43,076	49	46,326
4121	Road and bridge construction	114	148,150	143	295,102	185	443,252
4122	Non-building construction n.e.c.	719	467,198	191	454,389	785	921,587
412	Total non-building construction	833	615,348	334	749,491	970	1,364,839
41	Total general construction	869	618,598	352	792,567	1,018	1,411,165
4231	Concreting	76	4,913	85	7,207	155	12,120
4232	Bricklaying	3	n.p.	*2	n.p.	3	333
4233	Roof tiling	—	—	—	—	—	—
4234	Floor and wall tiling	—	—	*2	n.p.	*2	n.p.
4241	Structural steel erection	13	13,227	11	4,939	22	18,166
4242	Plumbing	*51	6,029	*23	3,238	69	9,267
4243	Electrical work	148	22,848	65	18,660	197	41,508
4244	Heating and airconditioning	1	n.p.	1	n.p.	2	n.p.
4245	Plastering and plaster fixing	—	—	—	—	—	—
4246	Carpentry	—	—	1	n.p.	1	n.p.
4247	Painting	9	4,191	5	1,051	11	5,241
4248	Earthmoving and dredging	614	54,522	434	59,569	831	114,091
4249	Special trades n.e.c.	161	30,029	26	1,925	166	31,954
42	Total special trade construction	1,075	136,232	634	96,798	1,460	233,030
41-42	Total construction	1,944	754,830	1,006	889,365	2,478	1,644,195

(a) The total number of establishments is not necessarily the sum of private sector and public sector components because some establishments undertook work for both sectors.

TABLE 19. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION WORK DONE ON PRIME CONTRACT CONSTRUCTION PROJECTS BY OWNERSHIP OF PROJECT AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85

ASIC Code	Description	Private sector		Public sector		Total	
		Number of establishments	Value	Number of establishments	Value	Number of establishments(a)	Value
			\$' 000		\$' 000		\$' 000
4111	House construction	5,385	1,152,389	682	94,759	5,495	1,247,148
4112	Residential building construction n.e.c.	321	158,327	88	68,146	362	226,473
4113	Non-residential building construction	878	1,433,778	300	351,605	898	1,785,383
411	Total building construction	6,583	2,744,494	1,069	514,511	6,755	3,259,005
4121	Road and bridge construction	132	148,785	143	295,313	185	444,098
4122	Non-building construction n.e.c.	740	476,671	208	454,913	805	931,585
412	Total non-building construction	872	625,456	351	750,226	990	1,375,683
41	Total general construction	7,456	3,369,950	1,421	1,264,737	7,745	4,634,687
4231	Concreting	898	31,634	153	15,567	964	47,201
4232	Bricklaying	476	*15,989	74	*1,532	501	*17,521
4233	Roof tiling	141	14,623	21	942	146	15,565
4234	Floor and wall tiling	289	6,315	50	696	293	7,012
4241	Structural steel erection	53	24,792	25	6,571	64	31,363
4242	Plumbing	2,537	134,638	597	24,423	2,616	159,062
4243	Electrical work	2,114	130,261	638	56,773	2,221	187,034
4244	Heating and airconditioning	232	55,180	112	14,275	244	69,455
4245	Plastering and plaster fixing	481	12,706	30	888	481	13,593
4246	Carpentry	911	34,142	106	6,307	946	40,449
4247	Painting	1,760	72,296	350	12,600	1,817	84,896
4248	Earthmoving and dredging	763	60,277	449	61,338	947	121,616
4249	Special trades n.e.c.	810	126,871	255	19,428	901	146,298
42	Total special trade construction	11,464	719,725	2,860	221,340	12,141	941,066
41-42	Total construction	18,920	4,089,676	4,281	1,486,077	19,885	5,575,753

(a) The total number of establishments is not necessarily the sum of private sector and public sector components nor of building and engineering construction projects (Tables 17 and 18) because some establishments undertook construction work for both sectors and for both types of project.

TABLE 20. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION WORK DONE BY TYPE OF CONSTRUCTION AND TYPE OF PROJECT, NEW SOUTH WALES, 1984-85 (\$'000)

	Trade contracting		General construction			Work done for own use, rental or lease
	As a prime contractor	As a sub-contractor	As a prime contractor	As a sub-contractor	Speculative construction	
Building construction						
Houses—						
New	18,653	552,041	813,033	17,029	124,046	*1,198
Alterations, additions etc	147,575	199,609	368,541	25,172	19	*384
Total	166,228	751,650	1,181,574	42,201	124,065	1,582
Other residential buildings—						
New	4,432	135,342	238,172	2,849	129,599	5,107
Alterations, additions etc	13,716	14,764	14,182	614	—	—
Total	18,148	150,106	252,354	3,464	129,599	5,107
Total residential buildings	184,376	901,756	1,433,928	45,665	253,664	6,689
Non-residential buildings						
New work, alterations, additions, improvements and renovations—						
Hotels, motels etc	11,437	44,388	134,906	n.p.	—	n.p.
Shops	36,817	149,008	189,220	3,907	n.p.	n.p.
Factories	78,962	222,164	205,452	9,173	n.p.	n.p.
Offices	64,989	334,103	637,638	9,121	13,771	19,659
Other business premises	31,319	52,612	155,185	2,453	n.p.	n.p.
Educational	n.p.	58,318	151,787	n.p.	—	—
Religious	1,055	5,100	27,855	193	—	—
Health	8,616	29,916	81,304	1,747	—	—
Entertainment and recreational	n.p.	24,059	79,728	—	n.p.	—
Other	5,850	22,085	43,069	2,679	—	18
Total non-residential buildings	273,965	941,753	1,716,144	48,283	n.p.	n.p.
Total building construction	458,341	1,843,509	3,150,071	93,948	n.p.	n.p.
Engineering construction						
New work, alterations, additions, improvements and renovations—						
Roads, highways and related structures	55,896	53,164	359,754	64,910	n.p.	n.p.
Bridges	3,311	13,204	64,346	17,821	—	—
Railways and tramways	6,949	4,909	38,438	*11,292	—	—
Harbours	1,778	5,422	17,035	502	—	—
Dams, water supply pipelines	24,784	10,202	77,393	1,269	—	—
Electric power transmission lines	—	n.p.	71,956	n.p.	—	—
Electric power distribution lines	3,060	4,760	*2,848	*2,409	—	—
Water distribution systems	9,458	2,583	37,409	n.p.	—	n.p.
Sewer systems	11,726	10,818	41,919	n.p.	—	n.p.
Pipelines n.e.i.	6,292	3,953	54,251	n.p.	—	n.p.
Heavy electrical generating plant and equipment	17,551	46,445	173,734	139,773	—	—
Heavy industrial plant and equipment	31,738	33,929	224,530	11,406	—	—
Telecommunications towers, lines and structures	n.p.	n.p.	1,475	—	—	—
Other	n.p.	12,631	212,907	34,569	—	n.p.
Total engineering construction	193,921	n.p.	1,377,996	291,159	n.p.	n.p.
Repair and maintenance to—						
Houses	129,069	19,217	43,763	2,199	—	—
Other residential buildings	29,566	8,569	7,939	658	—	—
Non-residential buildings	80,055	26,745	25,267	n.p.	—	n.p.
Roads, highways and related structures	n.p.	6,274	20,649	n.p.	—	—
Bridges	n.p.	n.p.	*63	—	—	—
Other engineering structures	28,579	4,281	13,759	n.p.	—	n.p.
Demolition	6,273	9,064	1,392	—	—	—
Total repair, maintenance and demolition	282,581	n.p.	112,832	12,714	—	n.p.
Total construction	934,844	2,121,793	4,640,900	397,822	270,565	56,348

TABLE 21. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION PRIME AND SUB-CONTRACTS, SPECULATIVE WORK AND CAPITAL WORK DONE FOR OWN USE BY TYPE OF PROJECT AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85 (\$'000)

	House construction 4111	Residential building construction n.e.c. 4112	Non- residential building construction 4113	Road and bridge construction 4121	Non- building construction n.e.c. 4122	Total general construction 41
Building construction						
Houses—						
New	900,151	24,772	29,748	405	*504	955,579
Alterations, additions etc	373,814	3,214	14,433	n.p.	n.p.	393,905
Total	1,273,964	27,986	44,180	n.p.	n.p.	1,349,484
Other residential buildings—						
New	44,491	281,424	50,860	n.p.	n.p.	376,861
Alterations, additions etc	7,804	7,072	2,188	n.p.	n.p.	17,167
Total	52,295	288,496	53,048	n.p.	n.p.	394,028
Total residential buildings	1,326,259	316,482	97,228	520	*3,023	1,743,512
Non-residential buildings						
New work, alterations, additions, improvements and renovations—						
Hotels, motels etc	n.p.	386	134,671	n.p.	—	137,612
Shops	10,165	2,659	180,860	*29	*242	193,956
Factories	13,044	*6,590	195,694	n.p.	n.p.	217,893
Offices	12,501	10,099	654,633	n.p.	n.p.	679,679
Other business premises	3,842	n.p.	161,171	226	n.p.	167,526
Educational	7,272	2,816	156,082	—	—	166,170
Religious	n.p.	n.p.	24,749	—	—	28,048
Health	2,854	n.p.	78,323	n.p.	—	83,110
Entertainment and recreational	*4,233	n.p.	77,872	—	n.p.	82,353
Other	3,560	914	40,789	*119	*381	45,764
Total non-residential buildings	62,372	26,750	1,704,843	646	7,497	1,802,110
Total building construction	1,388,631	343,233	1,802,071	1,167	10,520	3,545,622
Engineering construction						
New work, alterations, additions, improvements and renovations—						
Roads, highways and related structures	*988	—	11,050	394,130	19,462	425,630
Bridges	n.p.	—	n.p.	68,255	n.p.	82,167
Railways and tramways	—	n.p.	51	n.p.	42,198	49,730
Harbours	—	—	—	—	17,537	17,537
Dams, water supply pipelines	—	—	n.p.	n.p.	54,653	78,661
Electric power transmission lines	—	—	—	—	72,018	72,018
Electric power distribution lines	—	—	—	—	*5,308	*5,308
Water distribution systems	—	—	n.p.	n.p.	35,294	37,960
Sewer systems	—	—	n.p.	n.p.	34,540	46,556
Pipelines n.e.i.	—	—	n.p.	n.p.	71,340	71,944
Heavy electrical generating plant and equipment	—	—	n.p.	n.p.	273,715	313,508
Heavy industrial plant and equipment	—	—	—	n.p.	n.p.	235,802
Telecommunications towers, lines and structures	—	—	—	—	1,475	1,475
Other	n.p.	—	n.p.	14,648	220,861	247,060
Total engineering construction	n.p.	n.p.	86,072	505,747	1,091,509	1,683,355
Repair and maintenance to—						
Houses	42,011	*689	2,664	—	*12	45,375
Other residential buildings	n.p.	3,038	2,560	—	n.p.	6,892
Non-residential buildings	3,357	n.p.	23,585	n.p.	207	27,503
Roads, highways and related structures	—	—	—	26,123	—	26,123
Bridges	—	—	—	*63	—	*63
Other engineering structures	n.p.	—	n.p.	—	25,906	26,032
Demolition	34	—	n.p.	n.p.	n.p.	1,411
Total repair, maintenance and demolition	n.p.	n.p.	30,058	26,405	26,355	133,397
Total construction	1,437,205	347,266	1,918,201	533,319	1,128,384	5,364,374

TABLE 21. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION PRIME AND SUB-CONTRACTS, SPECULATIVE WORK AND CAPITAL WORK DONE FOR OWN USE BY TYPE OF PROJECT AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85 — continued
(5000)

	Concreting 4231	Brick- laying 4232	Roof tiling 4233	Floor and wall tiling 4234	Structural steel erection 4241	Plumbing 4242	Electrical work 4243	Heating and air- conditioning 4244
Building construction								
Houses—								
New	86,779	58,613	34,420	14,253	*273	107,096	48,884	4,417
Alterations, additions etc	27,697	12,743	12,245	8,450	*17	88,280	28,775	12,574
Total	114,476	71,356	46,665	22,703	*290	195,376	77,659	16,992
Other residential buildings—								
New	20,055	20,370	2,935	*6,280	520	26,073	9,102	2,196
Alterations, additions etc	516	410	687	251	—	7,578	2,382	768
Total	20,571	20,779	3,622	*6,531	520	33,652	11,485	2,964
Total residential buildings	135,047	92,136	50,286	29,233	810	229,027	89,143	19,956
Non-residential buildings								
New work, alterations, additions, improvements and renovations—								
Hotels, motels etc	2,562	2,522	n.p.	*690	n.p.	4,762	6,212	21,336
Shops	*26,979	11,321	1,722	2,354	3,911	19,102	36,707	26,328
Factories	36,758	6,855	1,969	981	13,829	31,378	87,523	33,299
Offices	21,625	8,688	836	616	13,512	21,058	63,090	90,001
Other business premises	8,596	2,142	113	440	3,807	14,519	15,784	15,389
Educational	5,518	4,313	383	589	719	21,168	11,937	7,638
Religious	555	*820	n.p.	n.p.	n.p.	*1,530	756	121
Health	3,342	*291	365	216	173	4,025	11,442	11,891
Entertainment and recreational	n.p.	765	*658	n.p.	977	3,696	10,094	5,686
Other	n.p.	777	97	148	*4,049	1,740	3,188	2,968
Total non-residential buildings	109,475	38,493	7,379	6,336	41,708	122,978	246,732	214,657
Total building construction	244,522	130,629	57,665	35,569	42,517	352,006	335,876	234,613
Engineering construction								
New work, alterations, additions, improvements and renovations—								
Roads, highways and related structures	14,954	n.p.	—	—	235	n.p.	n.p.	—
Bridges	5,641	—	—	—	3,771	—	—	—
Railways and tramways	1,181	—	—	—	*135	n.p.	n.p.	n.p.
Harbours	n.p.	—	—	—	*1,006	—	n.p.	—
Dams, water supply pipelines	*4,653	—	—	—	310	*2,840	n.p.	—
Electric power transmission lines	—	—	—	—	—	—	—	—
Electric power distribution lines	—	—	—	—	—	—	7,452	—
Water distribution systems	551	*92	—	—	n.p.	2,476	1,248	n.p.
Sewer systems	*2,341	n.p.	—	—	977	5,624	n.p.	—
Pipelines n.e.i.	*27	—	—	—	n.p.	2,843	—	—
Heavy electrical generating plant and equipment	n.p.	—	—	—	14,574	—	36,229	—
Heavy industrial plant and equipment	1,696	—	—	—	19,784	*1,585	22,877	*2,001
Telecommunications towers, lines and structures	n.p.	—	—	—	—	—	1,901	—
Other	1,625	—	—	*382	*1,905	n.p.	*1,095	—
Total engineering construction	34,308	333	—	*382	46,520	16,453	75,657	*2,037
Repair and maintenance to—								
Houses	*3,248	*9,157	3,036	492	—	63,707	23,263	1,720
Other residential buildings	434	n.p.	517	*157	—	14,789	6,233	860
Non-residential buildings	2,837	n.p.	185	135	1,147	21,650	30,027	14,676
Roads, highways and related structures	2,021	—	—	—	—	n.p.	—	—
Bridges	n.p.	—	—	—	—	—	—	—
Other engineering structures	n.p.	—	—	*5	469	n.p.	6,343	n.p.
Demolition	n.p.	—	—	—	—	—	—	n.p.
Total repair, maintenance and demolition	9,347	*10,686	3,738	791	1,616	100,577	65,866	17,853
Total construction	288,176	141,648	61,403	36,741	90,653	469,036	477,399	254,503

TABLE 21. CONSTRUCTION ESTABLISHMENTS: VALUE OF CONSTRUCTION PRIME AND SUB-CONTRACTS, SPECULATIVE WORK AND CAPITAL WORK DONE FOR OWN USE BY TYPE OF PROJECT AND INDUSTRY CLASS, NEW SOUTH WALES, 1984-85 — continued
(5'000)

	Plastering and plaster fixing 4245	Carpentry 4246	Painting 4247	Earth- moving and dredging 4248	Special trades n.e.c. 4249	Total special trade con- struction 42	Total con- struction 41-42
Building construction							
Houses—							
New	68,805	59,039	38,596	17,944	31,303	570,421	1,526,000
Alterations, additions etc	19,292	35,234	31,954	3,060	67,075	347,395	741,300
Total	88,097	94,273	70,550	21,004	98,377	917,815	2,267,300
Other residential buildings—							
New	23,096	9,720	5,907	5,238	7,148	138,640	515,501
Alterations, additions etc	2,246	2,073	3,720	571	4,909	26,110	43,277
Total	25,342	11,793	9,627	*5,809	12,056	164,750	558,778
Total residential buildings	113,439	106,065	80,177	26,813	110,433	1,082,566	2,826,077
Non-residential buildings							
New work, alterations, additions, improvements and renovations—							
Hotels, motels etc	1,224	2,233	4,097	n.p.	7,700	55,825	193,437
Shops	9,673	9,894	5,292	12,503	20,017	185,805	379,760
Factories	6,040	11,901	10,790	16,282	43,417	301,021	518,914
Offices	31,656	48,736	11,670	*31,579	56,536	399,604	1,079,283
Other business premises	2,407	4,480	5,144	4,359	7,868	85,048	252,574
Educational	2,326	5,203	5,054	*5,159	11,512	81,517	247,687
Religious	229	*730	396	*488	445	6,155	34,203
Health	503	1,147	1,238	*327	3,512	38,472	121,582
Entertainment and recreational	744	3,119	453	*1,957	3,574	35,430	117,783
Other	1,390	6,645	171	n.p.	6,233	27,937	73,701
Total non-residential buildings	56,193	94,087	44,206	73,756	160,813	1,216,813	3,018,923
Total building construction	169,632	200,152	124,382	100,569	271,247	2,299,379	5,845,000
Engineering construction							
New work, alterations, additions, improvements and renovations—							
Roads, highways and related structures	—	n.p.	—	87,424	2,303	109,575	535,204
Bridges	—	2,076	n.p.	1,127	n.p.	16,515	98,682
Railways and tramways	—	*118	n.p.	8,705	*599	11,857	61,587
Harbours	—	n.p.	—	5,386	n.p.	7,199	24,737
Dams, water supply pipelines	—	n.p.	—	25,053	1,986	34,986	113,648
Electric power transmission lines	—	—	—	n.p.	n.p.	1,299	73,317
Electric power distribution lines	—	—	—	*319	—	7,770	13,078
Water distribution systems	—	—	—	3,752	663	12,250	50,210
Sewer systems	—	n.p.	n.p.	12,862	192	22,650	69,206
Pipelines n.e.i.	—	—	n.p.	*2,905	*4,131	10,445	82,389
Heavy electrical generating plant and equipment	—	—	n.p.	3,540	n.p.	63,996	377,504
Heavy industrial plant and equipment	—	—	4,915	*1,209	11,734	65,801	301,603
Telecommunications towers, lines and structures	—	—	—	n.p.	—	2,002	3,477
Other	—	n.p.	14,774	12,692	33,081	280,140	280,140
Total engineering construction	—	3,647	6,079	168,399	45,612	399,427	2,084,782
Repair and maintenance to—							
Houses	1,946	4,301	25,564	*283	12,156	148,873	194,248
Other residential buildings	*3,138	*530	n.p.	106	6,805	39,840	46,732
Non-residential buildings	3,374	533	9,883	n.p.	20,798	106,797	134,299
Roads, highways and related structures	—	—	—	12,472	n.p.	14,778	40,901
Bridges	—	—	642	n.p.	n.p.	705	767
Other engineering structures	—	—	n.p.	*11,693	10,632	32,781	58,813
Demolition	—	*13	—	1,913	13,161	15,318	16,729
Total repair, maintenance and demolition	8,458	5,377	44,670	26,498	63,617	359,092	492,489
Total construction	178,090	209,177	175,132	295,466	380,476	3,057,898	8,422,272

DIAGRAM 6: 1984-85 CONSTRUCTION INDUSTRY SURVEY:
VALUE OF CONSTRUCTION WORK UNDERTAKEN BY TYPE OF PROJECT,
NEW SOUTH WALES

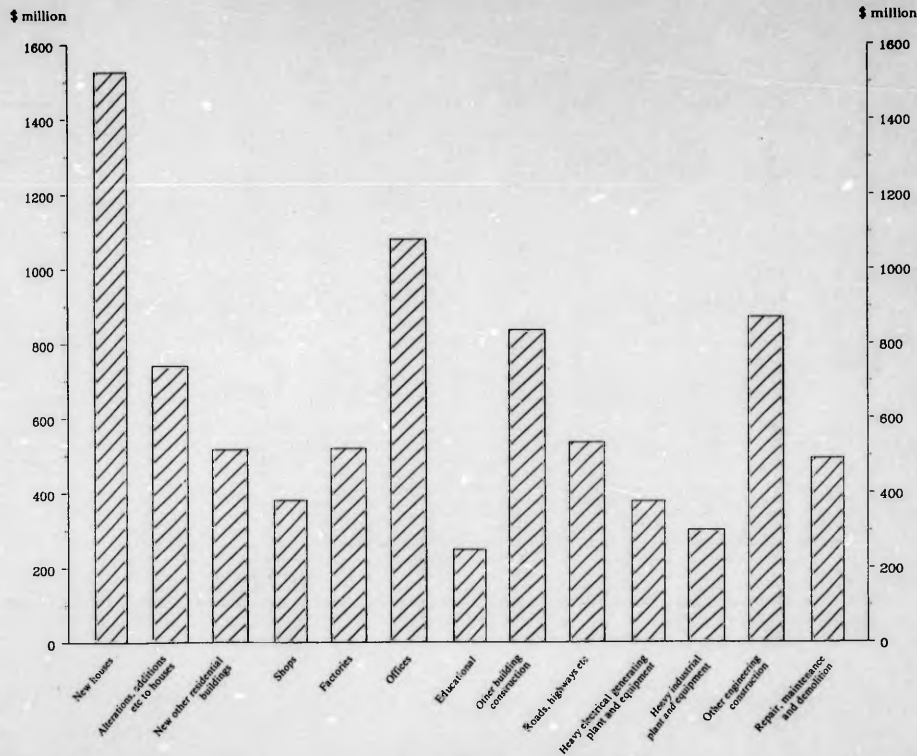


TABLE 22. CONSTRUCTION ESTABLISHMENTS: SUMMARY OF OPERATIONS, RELATIVE STANDARD ERRORS (%), NEW SOUTH WALES, 1984-85

ASIC Code	Description	Establishments operating		Employees at 30 June 1985	Employment at 30 June 1985	Average employment over whole year	Wages and salaries	Turnover	Stocks		Purchases and selected expenses	Value added	Fixed capital expenditure less disposals
		During the year	At 30 June 1985						At 30 June 1984	At 30 June 1985			
4111	House construction	7.4	7.5	4.7	5.7	5.6	4.0	4.0	7.3	9.5	4.8	5.2	16.6
4112	Residential building construction n.e.c.	11.4	11.5	11.2	10.2	10.4	9.9	11.8	6.6	7.4	11.3	13.3	39.0
4113	Non-residential building construction	7.8	7.8	1.9	2.2	1.9	1.6	1.2	2.0	2.3	1.2	1.4	5.3
411	Total building construction	6.0	6.1	2.1	3.1	3.0	1.6	1.9	3.6	4.5	2.2	2.4	9.2
4121	Road and bridge construction	13.5	13.5	1.1	2.8	2.9	0.8	1.3	4.7	3.3	1.3	1.6	7.8
4122	Non-building construction n.e.c.	9.6	9.9	2.4	2.9	3.0	2.5	2.1	4.7	2.8	2.0	3.1	2.7
412	Total non-building construction	8.1	8.4	1.7	2.2	2.3	1.7	1.5	3.5	2.2	1.4	2.0	2.8
41	Total general construction	5.4	5.4	1.4	2.2	2.1	1.2	1.4	3.2	3.9	1.6	1.7	4.9
4231	Concreting	15.5	15.1	12.9	10.8	11.1	16.5	8.7	28.9	23.6	7.5	11.1	16.9
4232	Bricklaying	14.2	14.5	12.3	10.3	10.1	9.4	15.3	28.5	24.9	19.9	17.2	20.2
4233	Roof tiling	29.6	30.7	4.8	5.4	5.3	4.9	6.5	12.3	13.3	7.3	6.4	9.0
4234	Floor and wall tiling	31.2	31.6	9.0	22.1	21.9	11.9	25.3	32.5	34.6	19.7	30.4	21.9
4241	Structural steel erection	35.5	36.5	4.4	15.2	15.2	3.2	7.9	6.4	1.8	5.6	11.0	70.4
4242	Plumbing	8.7	9.0	5.0	5.3	5.3	4.5	8.6	5.8	6.2	5.6	15.3	18.4
4243	Electrical work	7.2	7.3	3.5	4.3	4.2	2.4	3.3	5.9	6.8	4.2	3.0	12.9
4244	Heating and airconditioning	16.1	16.1	4.4	6.6	6.1	2.6	2.4	1.4	1.9	2.9	2.9	21.3
4245	Plastering and plaster fixing	20.1	15.2	7.5	8.5	8.1	6.3	8.4	12.4	6.7	9.5	9.8	22.9
4246	Carpentry	14.4	14.6	12.9	11.1	11.2	7.6	7.9	2.9	16.1	8.4	9.6	23.4
4247	Painting	12.2	12.6	7.6	7.5	7.4	4.9	6.3	11.3	8.3	7.5	6.6	28.5
4248	Earthmoving and dredging	9.9	10.3	11.7	8.1	7.4	10.3	8.1	26.6	13.2	7.1	10.7	27.8
4249	Special trades n.e.c.	15.1	15.2	8.3	7.4	7.6	5.4	6.8	3.1	4.3	8.7	4.5	23.0
42	Total special trade construction	4.1	4.1	2.5	2.4	2.4	2.2	2.3	2.8	2.3	2.2	3.2	9.2
41-42	Total construction	3.3	3.3	1.5	1.7	1.6	1.2	1.2	2.7	3.3	1.3	1.9	4.6

CLASSIFICATION AND DEFINITIONS

ASIC Division E

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 airconditioning
		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.

4. An *ancillary unit* mainly provides services (such as administrative, storage and transport depot functions) to other locations of the same enterprise. There are two types of ancillary units; local ancillary and central ancillary units. *Local ancillary units* serve only one establishment and statistical details for these units are included with those of the establishments they serve. *Central ancillary units* provide services to two or more establishments of the same enterprise. Wages and salaries, employment at 30 June 1985 and fixed capital expenditure are collected from these units. Details for central ancillary units are not included in Tables 3, 7, 8 and 9.

5. 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).

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

- statistics of the number of establishments relate to the number of bases of operations 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 definitions

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.

Contract construction revenue. This item includes all claims for payment submitted during 1984-85 for prime (head) contract and sub-contract work done by general constructors and trade contractors engaged in:

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

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 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 as indicated under "payments to contractors" above), motor vehicle running expenses, outward freight and cartage expenses (paid to other enterprises), 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 secondhand 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), 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.

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.

Apprentices. Comprises the number of apprentices working on-site classified by their indenture, irrespective of the tasks or duties carried out by the apprentice during the last pay period in June 1985.

Land transactions. *Land purchased* includes the value of any existing buildings purchased for the purpose of speculative construction. *Land sold without further improvement* includes the value of any buildings on the land at the time of purchase and which remained at the time of sale. *Improvements* include the cost of fencing, water and sewerage reticulation, roads etc and any rates, land taxes, interest incurred since purchase.

Building development and approval fees and charges. Includes payments to Local Government Authorities or other Government Authorities for:

- fees in lieu of the provision of land for public open space etc;
- betterment charges resulting from changes in lease/zone conditions;
- levees for providing parking spaces in fringe city areas or for low cost housing; and
- fees for the approval and inspection of building projects.

Self-contained dwelling units. A suite of rooms, including cooking and bathing facilities and intended for long-term residential use. Units (whether self-contained or not) within buildings offering institutional care, such as hospitals or temporary accommodation such as motels, hostels and holiday apartments, are not defined as dwelling units.

Trade contracting. Work done under trade contracting consists of contracts on building/construction projects involving *one trade only* eg bricklaying, carpentry, concreting, earthmoving and dredging, electrical work, floor and wall tiling, heating and airconditioning, painting, plastering and plaster fixing, plumbing, 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.

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, eg 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; drycleaners; 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 underpasses 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, food-stuffs 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 eg 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.

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