Private Sector Construction Establishments
Details of Operations by Industry Class, Western Australia 1978-79

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PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS
DETAILS OF OPERATIONS BY INDUSTRY CLASS,
WESTERN AUSTRALIA
1978-79

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CATALOGUE NO 8719.0

AUSTRALIAN BUREAU OF STATISTICS

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EXPLANATORY NOTES

1 Introduction

1.1 This publication presents detailed statistics compiled from a sample survey of private sector establishments, conducted in respect of 1978-79. This is the first time the ABS has obtained comprehensive information about the structure of the construction industry. The collection has provided detailed information on employment, wages, operating expenses, turnover, value added, capital expenditure, and on the structure and size of businesses in the industry.

1.2 The survey was undertaken in response to requests from both private and government organisations for such data about the construction industry. The collection was conducted as a component of the ABS's integrated economic statistics system. This system 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 censuses undertaken annually for the mining, manufacturing, and electricity and gas industries and periodically for the wholesale, retail and selected service industries.

2 The Concept of Industry

2.1 The concept of an industry is fundamental to a proper 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 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 duplications or omissions.

2.2 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 1 of the Australian Standard Industrial Classification (ASIC) 1978 (Catalogue No 1201.0). 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.

2.3 The structure of the ASIC comprises four levels, namely Divisions (the broadest level), Sub-divisions, Groups and Classes. For example, construction is recognised in the ASIC as Division E, being composed of:

. two Sub-divisions ("General Construction" and "Special Trade Construction")

. four Groups ("Building Construction", "Non-Building Construction", "Concreting, Bricklaying and Tiling" and "Other Special Trades")

. 18 Classes (See page 69 for details).

2.4 Each of these levels of classification can be used to delineate industries. In this way it is possible for example to compare characteristics of establishments classified to "Building Construction" with those of "Non-Building Construction" and "Special Trade Construction".

2.5 The "House Construction" industry (ASIC Class 4111) can be used to illustrate this concept of industry. It comprises all those establishments mainly engaged in the construction of houses or in carrying out alterations, additions, general renovations or repairs to houses, or managing these activities. An establishment classified to this industry will also be part of the "Building Construction" industry (ASIC Group 411), the "General Construction" industry (ASIC Sub-division 41) and the "Construction" industry (ASIC Division E). Similarly, an establishment mainly engaged in plumbing activities is classified to the "Plumbing" industry (ASIC Class 4242), the "Other Special Trades" industry (ASIC Group 424), the "Special Trade Construction" industry (ASIC Sub-division 42) and the "Construction" industry (ASIC Division E).

2.6 On this basis the plumbing establishment is not, as such, part of the "House Construction" industry. Similarly brick and tile manufacturers, building material suppliers etc. belong to industries other than ASIC Class 4111. Parts of the outputs of these industries are inputs to the "House Construction" industry.

3 Scope

3.1 PRIVATE SECTOR

3.1.1 The scope of the survey includes all PRIVATE SECTOR ESTABLISHMENTS AND ANCILLARY UNITS PREDOMINANTLY engaged in construction activities, ie those establishments and ancillary units classified to the industries in Division E of the ASIC.

3.1.2 While own house builders are recognised as operating establishments in the house construction industry (ASIC class 4111) and are therefore conceptually within the scope of the survey, their lack of detailed reliable records made it impossible to collect the same range of data as was collected from other private sector construction establishments. In order to provide an indication of their relative importance in the house construction industry, a sample of own house builders was approached for estimates of direct expenses (which included materials; payments to contractors; hire of vehicles, plant and equipment; motor vehicle running expenses; fuels used on the job; repair and maintenance of plant and equipment) incurred in constructing their houses. Problems were encountered in establishing a reliable list of own house builders who had completed building operations during the June quarter 1979 (this group of own house builders was used to derive estimates of total own house building activity during 1978-79) and some reservations are held about the overall quality of the direct expenses data obtained. Because of these difficulties, only total direct expenses incurred by own house builders in respect of 1978-79 are available for Australia and States, viz:

Own house builders : total direct expenses incurred, 1978-79

	$ million
NSW	207
Victoria	281
Queensland	75
SA	49
WA	45
Tasmania	38
NT	11
ACT	2
Australia	708

Care should be taken in drawing firm conclusion from these data.

3.2 PUBLIC SECTOR

3.2.1 Theoretically the same conceptual framework applies to both the public and private sectors, ie all public sector establishments and ancillary units classified to the industries in Division E of the ASIC should have been included in the scope of the survey. However, difficulties were encountered in developing appropriate definitions for public sector establishments and ancillary units because of widely divergent accounting systems within the public sector. An alternative approach was therefore adopted for public sector enterprises as follows:

. At the enterprise level data were collected for all public sector enterprises classified to an industry within Division E of the ASIC (Construction). These data are conceptually compatible with data relating to private sector construction enterprises and will be presented in the publication, "Enterprise Statistics, Details of Industry Class, 1978-79" (8103.0)

. Separate details were collected on the construction activities of all public sector enterprises engaged in construction activity to a significant extent (defined as those public sector enterprises with seven or more employees engaged in managing or undertaking construction activities). The public sector construction activity data will be presented in a separate publication, "Construction Activity in the Public Sector, Australia, 1978-79" (8712.0). Data were only collected in respect of the direct expenses associated with new construction and major alterations and additions activities of these public sector enterprises. As such, the public sector construction activity data cannot be validly aggregated with the private sector construction establishment data to give "total construction" estimates and extreme care should be taken in using those two sets of statistics in conjunction.

4 Coverage

4.1 The statistics in this publication relate to the private sector only and are based on data obtained by mail from all the establishments of large single establishment construction enterprises and all construction establishments of multi establishment enterprises, plus data obtained by specially trained field agents from a sample of smaller single establishment construction enterprises. The statistics also include data relating to separately located administrative offices and ancillary units (such as head offices and storage premises) serving the construction establishments and forming part of the enterprises which own and operate the establishments.

5 Units Definitions

5.1 ENTERPRISE

5.1.1 The concept of the enterprise is that of a unit which finances and controls the operations of one or more establishments, ie independently directs and manages the receipt and disposition of income, the accumulation of property and undertakes borrowing and lending.

5.1.2 For statistical purposes, the enterprise is defined in general as a unit comprising all operations in Australia of a single operating legal entity. The term "legal entity" is used to cover, inter alia, an individual person (such as a sole trader), a partnership, a trust (established by trust deed), a society or association (established by or registered under relevant legislation) or a company. The term "operating" is specified in order to exclude "non operating" companies which have no employees and do no business. For the purpose of defining the enterprise, a non operating company is attached to its related operating company.

5.1.3 The main variations from the definition of the enterprise (consisting of an operating legal entity including associated non operating companies where they exist) are:

. Companies which could be regarded as non operating because they have no employees of their own (but which belong in the category 'financial enterprises' in the National Accounts); these are treated as separate enterprises.

. Companies for which no separate management records or accounts are maintained; these are generally amalgamated with a related operating company to form one statistical enterprise

. Holding or property owning companies which may, or may not, have employees are treated as separate enterprises.

5.2 ESTABLISHMENT

5.2.1 The concept of the establishment is that of a unit which engages in the production of goods and services. An "establishment" in the construction industry is defined for statistical purposes as the location at which, or from which, construction activities are managed or controlled on a relatively permanent basis. For convenience such a location is commonly called the "construction base of operations". The data collected from the establishment (the construction base of operations) cover ALL the activities which are undertaken at or from this location including activities undertaken at associated local ancillary units such as storage and transport depots. (See paragraph 5.3.4 for definition).

5.2.2 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.

5.2.3 The major implications of this 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, although in general this would have been the case.

5.3 ANCILLARY UNIT

5.3.1 An 'ancillary unit' is defined for statistical purposes as a location mainly engaged in providing certain specified services to other locations in the same enterprise. Locations which might potentially be ancillary units in the sense that they are predominantly engaged in the relevant kinds of service activities come to notice in two ways. Firstly, any location belonging to a multi location enterprise and engaged predominantly in activities coming within certain defined common categories is treated as a potential ancillary unit and specifically examined to determine whether it meets the conditions for treatment as an establishment or as an ancillary unit. These categories are:

i administrative offices
ii storage depots
iii laboratories, etc
iv transport depots
v motor vehicle repair and maintenance workshops
vi producer's sales offices

Secondly, provision is also made for any other kind of location (belonging to a multi location enterprise) engaged mainly in service activities to be regarded as a potential ancillary unit if it happens to come to notice as operating in an ancillary role.

5.3.2 With respect to category (vi) above, the term "producer's sales office" is used to relate to sales offices that deal in goods produced by the same enterprise. A builder's sales office (eg in the case of a speculative builder) is treated as an establishment if that sales office is mainly engaged in selling the output of the builder, eg new houses and strata title units constructed by a separate establishment of the builder. If the "sales offices" are mere order taking offices or display centres, they are treated as ancillary units.

5.3.3 CENTRAL ANCILLARY UNIT. Where a location, which on the basis outlined in paragraphs 5.3.1 and 5.3.2 would be treated as an ancillary unit, provides more than half its services to two or more establishments within the same enterprise it is termed a central ancillary unit. Details of wages and salaries, employment at 30 June and fixed capital expenditure are collected from these locations. Central ancillary units are not industry classified on the basis of their major activity but are given a "reflected" industry code, corresponding to the industry which represents the predominant industry of the establishments they administer or serve.

5.3.4 LOCAL ANCILLARY UNIT. Where a location, which on the basis outlined in paragraphs 5.3.1 and 5.3.2 would be treated as an ancillary unit, serves only one establishment this location is termed a local ancillary unit. Details of this location are combined with those of the establishment it serves.

6 Methodology

6.1 The development of the survey involved consultation with construction businesses in the form of interviews and pilot tests aimed at investigating collection methodology and data availability. This resulted in the current survey design which aimed at producing reliable information, while minimising the burden on respondents and significantly reducing resource requirements and publication timetables.

6.2 An initial list of business units was created using a variety of sources including telephone directories and other ABS collections. In the period October 1978 to March 1979, these business units were approached for details of activities undertaken, locations at which or from which they were operating and legal entity structure. This information enabled a framework of construction enterprises, establishments and ancillary units to be formed and used in the conduct of the Construction Industry Survey.

6.3 The survey consisted of:

. A complete enumeration by mail of large single establishment construction enterprises and construction establishments of multi establishment enterprises (involving 4,076 establishments).

. A field enumeration of a sample of the remaining small single establishment construction enterprises (involving 16,000 establishments from a population of 58,000 such establishments).

6.4 Prior to sample selection the population of small single establishment construction enterprises was broken down into relatively homogeneous groups on the basis of State of location, ASIC industry class and employment size. The sample was allocated across 144 State by ASIC industry class groups to achieve a balance between the optimal allocation for State level estimates and that for Australia level estimates. Within each of the geographic levels involved, ie Australia or each State, the sample allocation was carried out in such a way as to keep the size of the standard error percents similar for each ASIC industry class.

7 Precision of the Estimates

7.1 As the estimates are derived from returns received from a sample of establishments they may differ from the results which would have been obtained if the collection had been made from all establishments. A measure of the likely difference is given by the standard error of each estimate. There are about 2 chances in 3 that a sample estimate will differ from results that would be obtained from a comparable complete collection by less than one standard error, and 19 chances in 20 that the difference would be less than two standard errors. For example, turnover for the private sector construction industry for Australia is estimated to be $11 821 million with a standard error of 0.7% ie $83 million; there are 2 chances in 3 that a comparable complete collection would have given a figure within the range of $11 738 million to $11 904 million, and 19 chances in 20 that the figure would have been within the range of $11 655 million to $11 987 million. The standard error percents associated with the estimates have been included as a separate component of each table.

7.2 Some of the standard errors associated with the estimates contained in this bulletin are relatively high. However, any limit for publication purposes would have been arbitrary and it was therefore decided to publish the figures. 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. For example estimates with standard errors exceeding 50 per cent of the estimate would not be reliable enough for most purposes. However, there may be situations in which such estimates are still of value and they have thus been included in this bulletin. In other situations it may be necessary for estimates to have standard errors of less than 10 per cent of the estimate for them to be reliable enough to use. It is left to the user to exercise the necessary caution in using the estimates in this bulletin.

7.3 The imprecision due to sampling, which is measured by the standard error, is not the only type of inaccuracy to which the estimates are subject. Other inaccuracies, referred to collectively as non sampling error, may occur because of inadequacies in available sources from which the coverage list was compiled, imperfections in reporting by respondents and the exclusion of establishments that commenced operations since the sample was selected. Every effort is made to reduce non sampling error to a minimum by careful design of questionnaires, efficient operating procedures and appropriate methodology.

8 Definition of Terms

8.1 The information shown in the tables for the various items relates to construction establishments and administrative offices and ancillary units which operated at any time during during the year unless otherwise stated.

8.2 ESTABLISHMENTS OPERATING DURING 1978-79

The number of construction establishments operating at any time during the year. Excludes administrative offices and ancillary units.

8.3 ESTABLISHMENTS AT 30 JUNE

The number of construction establishments in operation at 30 June 1979. Excludes administrative offices and ancillary units.

NOTE: One reason for the number of establishments at 30 June 1979 being less than the number operating during 1978-79 is that while it was possible to detect establishments closing down during the year, it was not practicable to update the framework to take account of establishments commencing operations during that period.

8.4 EMPLOYEES

Persons on the payroll including

. those absent on paid sick leave, holidays or long service leave and

. part time and casual workers

Excludes those who were on leave without pay, stood down, or absent because of an industrial dispute.

8.5 EMPLOYMENT

Employees plus working proprietors and partners.

8.6 ON-SITE AT 30 JUNE

Persons spending more than 50% of their time on construction sites or travelling between sites at the last pay period in June 1979.

8.7 OFF-SITE AT 30 JUNE

Persons spending less than 50% of their time on construction sites or travelling between sites at the last pay period in June 1979. Note that all persons working at administrative offices and ancillary units are defined as "off-site".

8.8 AVERAGE EMPLOYMENT OVER WHOLE YEAR

Average number of employees plus working proprietors and partners. Includes persons working at ancillary units.

8.9 WAGES AND SALARIES

Gross earnings of all employees, before taxation and other deductions including those working at ancillary units. Drawings of working proprietors and partners are excluded.

8.10 CONTRACT CONSTRUCTION REVENUE

All claims for payment submitted during the year ended 30 June 1979 for work done by the establishment as a general constructor or trade contractor. Includes work done by sub contractors on behalf of prime contractors.

8.11 SALE OF SPECULATIVE CONSTRUCTION PROJECTS

Receipts from sales of speculative construction projects during 1978-79, NET of the estimated market value of the land at the time of sale. A speculative project is one for which no buyer had been identified at the time of commencement of construction.

8.12 ALL OTHER REVENUE

Transfers out of goods to other establishments of the same enterprise; capital work done for own use rental or lease; and operating income from sources such as renting, leasing and hiring of premises and equipment, resale of goods, bounties and subsidies.

8.13 TURNOVER

Contract construction revenue, plus sales of speculative construction projects, plus transfers out of goods to other establishments of the same enterprise, plus capital work done for own use rental or lease, plus all other operating revenue. Receipts from interest, royalties, dividends and the sale of fixed tangible assets are excluded.

NOTE: Transfers to and from other establishments of the enterprise are valued at commercial selling price. Transfers are a relatively rare occurrence in the construction industry.

8.14 STOCKS - OPENING AND CLOSING

8.14.1 All stocks owned by the enterprise and under the control of the establishment, whether located at the establishment or elsewhere. Excludes stocks of overseas branches of the enterprise, goods held at the establishment but not owned by the enterprise (eg goods held for sale on commission) and goods rented or leased outside the enterprise.

8.14.2 Speculative construction project stocks are valued on a direct cost basis and NET of 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.

8.14.3 Stocks include:

. Materials, fuels, etc excluding the value of land held and the value of materials already delivered to construction sites.

. Contract construction work in progress. Includes the value of work done on construction contracts for which claims for progress payments had not been made, and the value of materials already delivered to construction sites.

. Speculative construction projects completed but unsold.

. Speculative construction work in progress.

. Goods for sale and non construction work in progress.

8.15 CHARGES FOR WORK DONE ON CONTRACT

Amounts paid for contract work performed for the establishment. Includes the hire of plant and equipment with an operator.

8.16 MATERIALS, FUELS, OTHER PURCHASES AND TRANSFERS IN

Purchases of materials, fuels, electricity, stores and supplies and transfers in of goods from other establishments of the enterprise. Excludes fuel and parts for registered motor vehicles, office supplies, land and other capital assets.

NOTE: See turnover definition 8.13 above for details of transfer valuation.

8.17 RENT LEASING AND HIRING EXPENSES

All rent leasing and hiring charges incurred. Includes those where an option to buy exists (eg motor vehicle leasing schemes). Excludes the hire of plant and equipment with an operator.

8.18 OTHER SELECTED EXPENSES

Repair and maintenance expenses, outward freight and cartage, motor vehicle running expenses and commission payments.

8.19 TOTAL PURCHASES, TRANSFERS IN AND SELECTED EXPENSES

The sum of "Charges for work done on contract", "Materials, fuels, other purchases and transfers in", "Rent, leasing and hiring expenses" and "Other selected expenses".

8.20 VALUE ADDED

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

NOTE: While value added is the 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.

8.21 CAPITAL EXPENDITURE ON FIXED TANGIBLE ASSETS

8.21.1 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.

Includes:

. All expenses incurred during the year, except capitalised interest, in acquiring fixed tangible assets, (eg design, technical and legal fees, assembly, installation and transport costs).

. Expenditure on fixed tangible assets which were charged temporarily to some other account (eg deposits and progress payments made during the year on construction contracts).

. Major improvements, alterations and additions to fixed tangible assets performed by outside contractors.

. The value of work done (including major improvements, alterations and additions) by the enterprise during the year in producing, constructing or installing fixed tangible assets for own use or for rental or lease outside the enterprise.

. Goods withdrawn from stocks for use by the enterprise as, or for the production of, fixed tangible assets, or for rental or lease outside the enterprise.

. All other expenditure on fixed tangible assets intended for rental or lease outside the enterprise.

. The value of fixed tangible assets acquired during the year for own use or for rental or lease outside the enterprise under some financing arrangement such as hire purchase, loans and credit extended by suppliers including overseas parent or related overseas companies.

. Expenditure by the enterprise on buildings and other structures which, on completion, were or are to be sold by, and leased back to, the enterprise.

Excludes:

. Expenditure on repair and maintenance of fixed tangible assets.

. Expenditure on intangible assets (eg securities, goodwill patents and shares).

. Fixed tangible assets on rental or lease from outside the enterprise.

- Transfers during the year to fixed tangible assets accounts from other accounts to which the expenditure on the fixed tangible assets was temporarily charged in a previous year.

- Revaluations of fixed tangible assets.

- Work done on projects constructed with the intention of sale.

8.21.2 New Assets

The expenditure on never occupied buildings and on the purchases of other fixed tangible assets not previously used in Australia. Excludes speculative construction projects and land whether purchased separately or with buildings.

8.21.3 Land and secondhand assets

Purchases of land and previously occupied buildings and other fixed tangible assets previously used in Australia. Excludes land purchased without buildings for the purpose of speculative construction or for resale and buildings purchased for resale.

8.21.4 Disposals of fixed tangible assets

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

8.22 VALUE OF CONSTRUCTION WORK DONE

Value of work put in place during the year. Equivalent to construction capital work done for own use rental or lease plus sales of speculative projects and contract construction revenue, adjusted for changes in stocks of:

- Contract construction work in progress for which claims for payment had not been made.

- Speculative construction projects completed but unsold plus work in progress (excluding market value of land).

8.23 TRADE CONTRACTING

Value of special trade construction work done, ie concreting, bricklaying, roof tiling, floor and wall tiling, structural steel erection, plumbing, electrical work, heating and air conditioning, plastering and plaster fixing, carpentry, painting and earthmoving and dredging, etc.

8.24 GENERAL CONSTRUCTION

Value of general construction work done, ie construction of, alterations, additions, general renovation and repairs to, buildings and other structures, (eg houses, factories, schools, roads, harbours and telecommunication lines and structures). Includes the organisation and management of these activities.

8.25 PRIME CONTRACT

A contract directly with the owner of the project.

8.26 SUB-CONTRACT

A contract with another contractor who is not the owner of the project.

8.27 PUBLIC SECTOR

Federal and State Government Departments; Local Government Authorities (Shires, Cities, County Councils); Water, sewerage and electricity authorities; Semi-government authorities (public hospitals etc).

8.28 PRIVATE SECTOR

Individuals, other constructors, private hospitals and nursing homes, non-government schools, companies, etc.

8.29 CAPITAL WORK DONE FOR OWN USE, RENTAL OR LEASE

Current account expenses incurred by the establishment in constructing fixed tangible assets for its own use or for rental or lease.

8.30 HOUSES

Buildings which have been designed so that their primary purpose is to be a single self contained dwelling unit (ie includes bathing and meal preparation facilities), completely detached from other buildings and occupying a separate titled block of land (except in such cases as dwellings built for employees or families of the owner or lessee of the land).

8.31 OTHER RESIDENTIAL BUILDINGS

Self contained dwelling units (ie includes bathing and meal preparation facilities) other than a house (eg flats, home units, semi-detached dwellings, villa units, town houses).

8.32 NON RESIDENTIAL BUILDINGS

8.32.1 COMMERCIAL BUILDINGS: Buildings used primarily in commercial activities (eg banks, shops, hotels, motels, boarding houses, restaurants, offices (including government), council chambers, theatres, gymnasiums, service stations, television and radio stations and wholesale warehouses).

8.32.2 INDUSTRIAL BUILDINGS: Buildings used primarily in industrial activities (eg factories, brickworks, power stations, workshops and abattoirs).

8.32.3 OTHER BUILDINGS: Schools, churches, hospitals, libraries, law courts, police, fire and ambulance stations, orphanages, etc.

8.33 ROADS, HIGHWAYS AND RELATED STRUCTURES

Includes vehicular and pedestrian underpasses and overpasses designed to facilitate traffic flow, footpaths, kerbing and guttering, parking areas and airport runways.

Elevated highways, bridges, tunnels, traffic control systems, street and highway lighting are excluded.

8.34 BRIDGES

Any structure to support roadways, railway road-beds and water channels designed to avoid geographic obstacles, major bridge reconstruction and movable bridges, elevated highways and similar structures.

Elevated urban railway structures and road-beds, vehicular and pedestrian overpasses are excluded.

8.35 RAILWAYS AND TRAMWAYS

Road-beds and structures for elevated and underground railways, railway electrification structures, (including overhead power lines), underground railway tunnels (other than underwater tunnels) sidings and marshalling yards.

Stations and terminals (other than underground or elevated stations forming an integral part of the railway), bridges, viaducts and tunnels designed to avoid geographic obstacles are excluded.

8.36 HARBOURS

Fixed dry docks, harbour bottoms and channels, breakwaters, piers, pleasure boat marinas.

Floating docks, canals, sheds, terminals and tanks associated with harbours, light houses, quayside installations such as cranes and hoists are excluded.

8.37 DAMS AND WATER SUPPLY PIPELINES

River levees and embankments, spillways, reservoirs incorporating a dam structure, pipelines designed for the purpose of water supply, irrigation or flood control, water supply canals and aqueducts.

Artificial ponds and lakes constructed mostly by excavation, water storage tanks, urban water distribution systems, sewers, navigational canals and non-water pipelines are excluded.

8.38 ELECTRIC POWER TRANSMISSION LINES

High-tension lines designed to carry power from generating plants to bulk-power and distribution sub-stations at high voltages.

Distribution (low tension) lines, bulk-power sub-stations and distribution sub-station plant and equipment are excluded.

8.39 ELECTRIC POWER DISTRIBUTION LINES

Relatively low tension lines, either above or below ground, carrying power from sub-stations to consumers.

Transmission lines as defined in the previous item, street lighting systems and wiring systems within buildings are excluded.

8.40 WATER DISTRIBUTION SYSTEMS

Urban systems designed for conveying water to individual residences and commercial and industrial establishments and for fire protection purposes.

Steam and hot water conduits, pipes for water distribution within buildings, water tanks, towers, storage reservoirs and water supply pipelines are excluded.

8.41 SEWER SYSTEMS

Sanitary and water sewers for removal of sewage and rainwater, associated drains and access manholes.

Sewage disposal plants, septic tanks and agricultural drainage systems are excluded.

8.42 PIPELINES, NEC

Pipelines of any material for conveyance of petroleum products, natural gas, chemicals, foodstuffs, pulverised coal etc. whether overland or submarine.

Water sewerage, town gas, steam and hot water pipelines and pumping station buildings are excluded.

8.43 STREET AND HIGHWAY LIGHTING

Street, highway and similar outdoor lighting systems under the jurisdiction of public authorities.

Traffic control systems and tunnel lighting systems are excluded.

8.44 HEAVY ELECTRICAL GENERATING PLANT AND EQUIPMENT

On-site assembly and erection of heavy electrical generating plant and equipment, turbines, boilers, etc, electrical distribution stations and sub-station plant and equipment - produced by manufacturing industry and supplied as prefabricated integral parts.

Buildings designed to house such plant and equipment, high tension electric power transmission and power distribution lines are excluded.

8.45 HEAVY INDUSTRIAL PLANT AND EQUIPMENT, NEC

On-site assembly and erection of heavy industrial plant and equipment - produced by manufacturing industry and supplied as prefabricated integral parts (eg chemical plant and equipment, mining plant and equipment and furnaces).

Buildings designed to house such plant and equipment are excluded.

8.46 TELECOMMUNICATIONS TOWERS, LINES AND STRUCTURES

Trunk telephone and telegraph lines, transmitting towers, underwater telephone and telegraph cables, local telephone lines, rural telephone lines, local and trunk cable television lines.

Buildings associated with the above are excluded.

8.47 OTHER

Civil and engineering works not elsewhere specified (eg construction of ship, barge and boat canals, construction activities associated with mine development, pile driving, tunnels designed to avoid geographic obstacles, stadia, playing fields and similar recreational facilities, road traffic control systems and town water reservoirs).

Buildings associated with the above are excluded.

9 Related Publications

9.1 Further results from this Survey will be included in other ABS publications, namely:

- Private Sector Construction Establishments, Details of Operations by Industry Class, Australia, each other State and Territory, 1978-79 (8714.0-8718.0, 8720.0-8722.0)

- Construction Activity in the Public Sector, Australia, 1978-79 (8712.0)

- Construction Industry Survey: Industry Concentration Statistics, Details of Industry Class, 1978-79 (8723.0)

- Enterprise Statistics, Details of Industry Class (8103.0)

Other ABS publications which may be of interest include:

- Building Operations, Australia (8705.0)

- Construction (Other than Building) Operations (8708.0)

9.2 All publications produced by the ABS are listed in the Catalogue of Publications (1101.0) which is available free of charge from any ABS Office.

10 Symbols and Other Usages

\- nil or rounded to zero

nec not elsewhere classified

na not available for publication

As totals are estimated independently of their components, discrepancies may occur between sums of components and totals.

TABLES

TABLE 1 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - SUMMARY OF OPERATIONS BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

ASIC Code	Industry class	Establishments operating at 30th June No	Average employment over whole year: Males No	Average employment over whole year: Females No	Average employment over whole year: Persons No	Wages and salaries $'000	Turnover $'000	Stocks: Opening $'000	Stocks: Closing $'000	Total purchases, transfers in and selected expenses $'000	Value added $'000	Fixed capital expenditure less disposals $'000
4111	House construction	954	2 604	874	3 478	22 523	319 533	37 128	42 659	257 686	67 378	2 394
4112	Residential building construction nec	207	310	171	480	1 747	35 850	11 557	13 742	31 199	6 837	1 167 (a)
4113	Non-residential building construction	293	3 012	321	3 333	37 907	287 921	14 953	13 122	224 953	61 136	5 327
411	Total building construction	1 454	5 926	1 366	7 292	62 177	643 304	63 638	69 522	513 838	135 351	8 888
4121	Road and bridge construction	83	1 087	88	1 176	13 704	70 799	1 801	1 694	46 711	23 981	1 359
4122	Non-building construction nec	154	2 568	277	2 845	41 960	208 825	6 111	5 867	138 260	70 321	13 125
412	Total non-building construction	237	3 655	365	4 020	55 664	279 625	7 913	7 560	184 971	94 302	14 483
41	Total general construction	1 691	9 581	1 731	11 312	117 841	922 929	71 550	77 083	698 808	229 653	23 372
4231	Concreting	198	628	192	820	4 976	28 260	494	552	18 128	10 190	459
4232	Bricklaying	453	799	252	1 051	3 007	14 193	111 (a)	161	5 632	8 616	161 (a)
4233	Roof tiling	35	113	29	142	758	9 690	637	1 180	7 201	3 031	19
4234	Floor and wall tiling	139	216	108	323	630	5 238	112	73	2 476	2 724	88
4241	Structural steel erection	46	257	34	290	2 927	8 391	241	231	3 230	5 152	272
4242	Plumbing	441	1 617	417	2 034	13 571	61 728	2 816	3 021	36 428	25 506	1 038
4243	Electrical work	414	2 320	407	2 728	26 949	81 170	3 556	3 784	41 327	40 071	1 528
4244	Heating and airconditioning	69	684	87	771	7 997	37 433	1 219	1 266	25 609	11 870	242
4245	Plastering and plaster fixing	257	561	213	774	2 527	16 627	465	480	9 440	7 201	326
4246	Carpentry	305	539	228	767	2 850	12 779	398	218	5 638	6 961	253
4247	Painting	479	1 191	349	1 540	8 320	29 310	605	576	12 234	17 047	415
4248	Earthmoving and dredging	162	993	175	1 168	11 611	48 237	1 241	1 374	26 627	21 742	2 267
4249	Special trades nec	360	1 125	316	1 441	8 895	47 525	1 787	1 749	28 596	18 891	1 585
42	Total special trade construction	3 360	11 044	2 806	13 850	95 018	400 585	13 682	14 664	222 566	179 001	8 652
41-42	Total construction	5 052	20 625	4 537	25 162	212 859	1 323 514	85 233	91 747	921 374	408 654	32 023

(a) Published for completeness, note high standard error.

TABLE 1 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - SUMMARY OF OPERATIONS BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Establishments operating at 30th June	Average employment over whole year			Wages and salaries	Turnover	Stocks		Total purchases, transfers in and selected expenses	Value added	Fixed capital expenditure less disposals
			Males	Females	Persons			Opening	Closing			
4111	House construction	8.0	5.5	9.2	5.7	4.9	6.9	8.0	8.1	7.7	6.3	38.6
4112	Residential building construction nec	23.1	18.0	25.1	19.5	15.9	19.1	46.2	40.9	17.3	32.8	62.9
4113	Non-residential building construction	15.0	6.9	10.6	7.0	4.9	4.7	11.6	5.2	4.5	6.0	29.3
411	Total building construction	5.2	3.8	6.3	3.7	3.4	3.9	9.8	9.4	4.2	4.2	21.8
4121	Road and bridge construction	4.0	1.5	4.3	1.6	0.9	1.3	3.0	2.9	1.4	1.4	14.5
4122	Non-building construction nec	8.5	1.7	4.5	1.9	1.8	1.2	1.2	1.3	1.0	1.8	1.4
412	Total non-building construction	5.6	1.3	3.5	1.4	1.4	1.0	1.2	1.2	0.8	1.4	1.9
41	Total general construction	4.5	2.4	5.0	2.4	1.9	2.7	8.7	8.4	3.1	2.5	8.3
4231	Concreting	4.2	2.7	6.3	3.1	2.6	3.8	14.9	9.0	4.7	3.0	12.2
4232	Bricklaying	5.7	5.7	8.3	5.2	12.2	6.2	56.7	26.5	9.3	5.6	57.0
4233	Roof tiling	9.6	6.6	11.4	7.1	3.3	0.8	0.0	0.0	0.2	2.1	42.3
4234	Floor and wall tiling	4.1	3.7	5.6	3.8	8.1	5.7	20.6	19.7	8.5	4.3	31.0
4241	Structural steel erection	6.8	4.4	10.1	4.6	4.3	5.7	13.6	14.5	8.0	4.3	10.1
4242	Plumbing	4.4	2.5	5.5	2.7	2.5	3.6	4.6	3.9	4.2	3.3	18.3
4243	Electrical work	3.3	1.7	5.0	1.9	1.2	1.6	2.9	3.0	2.0	1.4	16.7
4244	Heating and airconditioning	7.4	1.3	5.5	1.6	0.9	1.0	1.2	1.6	1.0	1.0	3.1
4245	Plastering and plaster fixing	2.8	2.6	5.1	2.8	3.9	3.8	7.1	3.1	4.8	3.6	23.9
4246	Carpentry	5.4	6.8	7.2	6.0	11.0	8.1	39.4	28.9	9.9	6.7	14.0
4247	Painting	3.7	2.6	6.6	2.8	2.6	2.5	8.3	5.2	3.2	2.8	26.0
4248	Earthmoving and dredging	6.4	2.3	6.6	2.6	1.5	2.1	2.3	6.2	2.5	2.0	13.4
4249	Special trades nec	4.9	2.8	6.1	3.0	2.9	4.0	5.5	4.1	5.1	3.3	11.8
42	Total special trade construction	1.3	0.9	1.9	0.9	0.8	1.0	2.0	1.5	1.2	0.9	5.9
41-42	Total construction	1.6	1.2	2.2	1.2	1.1	1.9	7.3	7.1	2.3	1.5	6.3

TABLE 2 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - SELECTED ITEMS OF DATA BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

ASIC Code	Industry class	Establishments operating during the year	Contract construction revenue	Sales of speculative construction projects	All other revenue	Turnover	Stocks		Charges for work done on contract	Materials, fuels, other purchases and transfers in	Rent, leasing and hiring expenses	Other selected expenses	Value added
							Opening	Closing					
		No	$'000	$'000	$'000	$'000	$'000	$'000	$'000	$'000	$'000	$'000	$'000
4111	House construction	985	291 927	22 367	5 239	319 533	37 128	42 659	104 792	142 597	3 533	6 764	67 378
4112	Residential building construction nec	210	25 542	9 171	1 138 (a)	35 850	11 557	13 742	13 797	16 438	245	719	6 837
4113	Non-residential building construction	295	280 567	2 400	4 953	287 921	14 953	13 122	124 083	93 473	2 877	4 519	61 136
411	Total building construction	1 489	598 037	33 938	11 330	643 304	63 638	69 522	242 671	252 508	6 655	12 003	135 351
4121	Road and bridge construction	84	66 601	-	4 198	70 799	1 801	1 694	8 147	29 698	2 649	6 217	23 581
4122	Non-building construction nec	166	206 352	46	2 428	208 825	6 111	5 867	47 749	77 983	4 838	7 690	70 321
412	Total non-building construction	250	272 952	46	6 627	279 625	7 913	7 560	55 896	107 681	7 486	13 907	94 302
41	Total general construction	1 739	870 989	33 983	17 956	922 929	71 550	77 083	298 567	360 190	14 142	25 910	229 653
4231	Concreting	210	27 863	354	44	28 260	494	552	3 039	13 490	620	979	10 190
4232	Bricklaying	460	14 102	-	97 (a)	14 199	111 (a)	161	3 054	1 641	185	752	8 616
4233	Roof tiling	35	9 687	-	2 (a)	9 690	637	1 180	1 330	5 653	24	193	3 031
4234	Floor and wall tiling	142	5 170	-	69	5 238	112	73	975	1 132	71	299	2 724
4241	Structural steel erection	49	8 268	-	123	8 391	241	231	856	1 512	448	412	5 152
4242	Plumbing	473	60 892	153	683	61 728	2 816	3 021	7 262	25 539	1 351	2 276	25 506
4243	Electrical work	430	77 436	57 (a)	3 677	81 170	3 556	3 784	3 326	34 651	958	2 393	40 071
4244	Heating and airconditioning	69	33 926	-	3 507	37 433	1 219	1 266	6 121	17 876	639	973	11 870
4245	Plastering and plaster fixing	264	16 105	60	462	16 627	465	480	3 615	4 900	203	722	7 201
4246	Carpentry	315	12 302	94 (a)	383	12 779	398	218	2 024	2 596	364	653	6 961
4247	Painting	520	29 049	-	261	29 310	605	576	3 434	6 975	582	1 244	17 047
4248	Earthmoving and dredging	162	44 016	-	4 221	48 237	1 241	1 374	4 261	9 873	4 417	8 078	21 742
4249	Special trades nec	379	44 624	-	2 900	47 525	1 787	1 749	4 255	20 390	1 327	2 624	18 891
42	Total special trade construction	3 509	383 441	717	16 427	400 585	13 682	14 664	43 551	146 227	11 189	21 599	179 001
41-42	Total construction	5 248	1 254 430	34 700	34 384	1 323 514	85 233	91 747	342 118	506 417	25 330	47 507	408 654

(a) Published for completeness, note high standard error.

TABLE 2 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - SELECTED ITEMS OF DATA BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Establishments operating during the year	Contract construction revenue	Sales of speculative construction projects	All other revenue	Turnover	Stocks		Charges for work done on contract	Materials, fuels, other purchases and transfers in	Rent, leasing and hiring expenses	Other selected expenses	Value added
							Opening	Closing					
4111	House construction	7.7	7.2	8.5	14.0	6.9	8.0	8.1	7.0	9.0	25.3	8.0	6.3
4112	Residential building construction nec	22.8	18.6	39.9	63.0	19.1	46.2	40.9	20.7	17.0	21.6	20.2	32.8
4113	Non-residential building construction	14.9	4.7	11.7	30.0	4.7	11.6	5.2	2.5	8.1	4.6	3.7	6.0
411	Total building construction	5.0	4.0	12.0	15.7	3.9	9.8	9.4	3.3	5.7	13.5	4.6	4.2
4121	Road and bridge construction	3.9	1.3	-	3.8	1.3	3.0	2.9	5.2	1.1	2.0	1.4	1.4
4122	Non-building construction nec	7.9	1.2	-	4.3	1.2	1.2	1.3	0.7	1.3	1.7	1.3	1.8
412	Total non-building construction	5.3	1.0	-	2.9	1.0	1.2	1.2	1.0	1.0	1.3	0.9	1.4
41	Total general construction	4.3	2.7	12.0	10.9	2.7	8.7	8.4	2.7	4.0	6.4	2.2	2.5
4231	Concreting	3.6	3.8	41.5	18.9	3.8	14.9	9.0	9.5	4.2	8.5	3.2	3.0
4232	Bricklaying	5.6	6.2	-	54.6	6.2	56.7	26.5	9.9	19.7	15.7	6.3	5.6
4233	Roof tiling	9.6	0.8	-	51.3	0.8	0.1	0.1	0.4	0.1	5.0	3.9	2.1
4234	Floor and wall tiling	4.0	5.7	-	21.9	5.7	20.6	19.7	14.3	7.2	8.2	4.3	4.3
4241	Structural steel erection	6.3	5.8	-	28.7	5.7	13.6	14.5	14.2	6.7	10.4	8.7	4.3
4242	Plumbing	3.5	3.6	-	17.8	3.6	4.6	3.9	10.0	3.3	6.2	3.3	3.3
4243	Electrical work	2.9	1.7	78.1	4.9	1.6	2.9	3.0	3.7	1.9	3.6	3.3	1.4
4244	Heating and airconditioning	7.4	1.0	-	1.1	1.0	1.2	1.6	0.7	1.2	1.8	1.3	1.0
4245	Plastering and plaster fixing	2.7	3.9	46.2	1.7	3.8	7.1	3.1	9.4	3.5	4.9	3.4	3.6
4246	Carpentry	5.2	7.1	86.6	46.4	8.1	39.4	28.9	9.9	13.6	17.8	5.0	6.7
4247	Painting	2.3	2.5	-	30.1	2.5	8.3	5.2	7.4	2.5	4.3	3.0	2.8
4248	Earthmoving and dredging	6.4	2.3	-	2.4	2.1	2.3	6.2	3.2	1.9	4.1	4.2	2.0
4249	Special trades nec	4.7	4.3	-	3.9	4.0	5.5	4.1	12.5	4.5	7.2	7.8	3.3
42	Total special trade construction	1.2	1.0	24.5	2.1	1.0	2.0	1.5	2.6	1.1	2.2	1.9	0.9
41-42	Total construction	1.5	1.9	11.8	5.6	1.9	7.3	7.1	2.3	2.8	3.7	1.5	1.5

TABLE 3 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - COMPONENTS OF STOCKS BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

$'000

ASIC Code	Industry class	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	
		Opening	Closing	Opening	Closing	Opening	Closing	Opening	Closing	Opening	Closing	Opening	Closing
4111	House construction	763	770	19 855	25 064	4 785	3 491	11 478	13 086	246	247	37 128	42 659
4112	Residential building construction nec	11	8	2 482	2 234	1 190	1 674	7 873	9 826	1	-	11 557	13 742
4113	Non-residential building construction	1 420	1 422	11 982	9 666	754	352	411	1 189	385	492	14 953	13 122
411	Total building construction	2 195	2 200	34 320	36 965	6 729	5 518	19 763	24 101	632	739	63 638	69 522
4121	Road and bridge construction	592	592	1 209	1 102	-	-	-	-	1	0	1 801	1 694
4122	Non-building construction nec	1 583	1 525	4 190	3 683	-	-	-	368	339	291	6 111	5 867
412	Total non-building construction	2 175	2 116	5 399	4 785	-	-	-	368	339	291	7 913	7 560
41	Total general construction	4 369	4 316	39 718	41 749	6 729	5 518	19 763	24 469	971	1 031	71 550	77 083
4231	Concreting	24	40	324	396	110	56	36	60	-	1	494	552
4232	Bricklaying	1	2	99	98	-	39	-	-	11	20	111 (a)	161
4233	Roof tiling	327	865	311	314	-	-	-	-	-	-	637	1 180
4234	Floor and wall tiling	76	17	33	55	-	-	-	-	2	1	112	73
4241	Structural steel erection	28	37	214	195	-	-	-	-	-	-	241	231
4242	Plumbing	1 017	1 065	1 711	1 791	9	47	23	39	56	79	2 816	3 021
4243	Electrical work	1 060	1 209	2 379	2 464	26	-	-	-	92	111	3 556	3 784
4244	Heating and airconditioning	632	696	508	487	-	-	-	-	78	82	1 219	1 266
4245	Plastering and plaster fixing	180	245	220	230	-	-	64	-	2	5	465	480
4246	Carpentry	29	21	207	124	-	-	144	42	18	31	398	218
4247	Painting	297	274	289	250	-	-	-	22	19	31	605	576
4248	Earthmoving and dredging	1 043	1 009	199	364	-	-	-	-	-	-	1 241	1 374
4249	Special trades nec	953	1 068	596	389	-	-	-	-	237	291	1 787	1 749
42	Total special trade construction	5 667	6 549	7 090	7 156	144	143	266	163	515	653	13 682	14 664
41-42	Total construction	10 036	10 865	46 808	48 905	6 873	5 661	20 029	24 632	1 486	1 684	85 233	91 747

(a) Published for completeness, note high standard error.

TABLE 3 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - COMPONENTS OF STOCKS BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-1979

STANDARD ERROR PERCENT

ASIC Code	Industry class	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	
		Opening	Closing	Opening	Closing	Opening	Closing	Opening	Closing	Opening	Closing	Opening	Closing
4111	House construction	11.2	10.8	1.2	1.2	0.8	0.8	0.8	1.0	2.0	1.6	8.0	8.1
4112	Residential building construction nec	31.9	44.9	4.9	3.1	1.8	1.6	6.6	5.6	6.1	-	46.2	40.9
4113	Non-residential building construction	4.5	4.1	1.4	0.5	1.1	3.3	2.5	3.6	0.4	0.3	11.6	5.2
411	Total building construction	4.8	4.6	0.9	0.8	0.7	0.7	2.7	2.3	0.8	0.6	9.8	9.4
4121	Road and bridge construction	3.6	6.5	0.4	0.2	-	-	-	-	5.0	5.0	3.0	2.9
4122	Non-building construction nec	1.9	1.7	0.1	0.1	-	-	-	-	0.2	0.4	1.2	1.3
412	Total non-building construction	1.7	2.2	0.1	0.1	-	-	-	-	0.2	0.4	1.2	1.2
41	Total general construction	2.5	2.6	0.8	0.7	0.7	0.7	2.7	2.3	0.5	0.4	8.7	8.4
4231	Concreting	7.8	5.4	0.9	0.7	4.1	6.3	8.2	-	-	4.6	14.9	9.0
4232	Bricklaying	48.9	26.5	6.3	2.1	-	8.2	-	-	9.2	9.2	56.7	26.5
4233	Roof tiling	0.1	0.1	-	-	-	-	-	-	-	-	0.1	0.1
4234	Floor and wall tiling	25.3	9.6	3.5	2.5	-	-	-	-	2.7	2.7	20.6	19.7
4241	Structural steel erection	8.7	9.8	1.5	1.6	-	-	-	-	-	-	13.6	14.5
4242	Plumbing	5.4	5.5	0.5	0.4	-	-	-	1.0	3.3	2.4	4.6	3.9
4243	Electrical work	6.6	6.7	0.2	0.2	7.8	-	-	-	0.4	0.3	2.9	3.0
4244	Heating and airconditioning	1.6	1.7	0.2	0.3	-	-	-	-	0.1	0.1	1.2	1.6
4245	Plastering and plaster fixing	5.2	3.4	0.5	0.5	-	-	4.6	-	-	-	7.1	3.1
4246	Carpentry	23.5	28.2	4.2	3.3	-	-	8.7	6.7	6.0	7.0	39.4	28.9
4247	Painting	12.8	5.5	1.1	1.0	-	-	-	2.4	2.9	2.8	8.3	5.2
4248	Earthmoving and dredging	1.5	1.6	1.0	2.1	-	-	-	-	-	-	2.3	6.2
4249	Special trades nec	6.6	4.9	1.2	1.1	-	-	-	-	0.3	0.5	5.5	4.1
42	Total special trade construction	2.1	1.8	0.3	0.2	3.4	3.3	4.9	1.8	0.5	0.6	2.0	1.5
41-42	Total construction	1.6	1.5	0.7	0.6	0.7	0.7	2.6	2.3	0.4	0.3	7.3	7.1

TABLE 4 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - FIXED CAPITAL EXPENDITURE BY TYPE OF ASSET AND TRANSACTION BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

$'000

ASIC Code	Industry class	Capital expenditure on New fixed tangible assets: Buildings and other structures	Vehicles, plant and machinery	Total	Land and second hand assets	Disposals of fixed tangible assets: Land, buildings and other structures	Vehicles, plant and machinery	Total	Fixed capital expenditure less disposals: Land, buildings and other structures	Vehicles, plant and machinery	Total
4111	House construction	2 028	2 089	4 117	1 304	2 050	977	3 027	663 (a)	1 731	2 394
4112	Residential building construction nec	1 054 (a)	162	1 216 (a)	61 (a)	-	111	111	1 070 (a)	96 (a)	1 167 (a)
4113	Non-residential building construction	2 764 (a)	1 315	4 079	2 145	334	563	897	4 190	1 137	5 327
411	Total building construction	5 846	3 566	9 412	3 511	2 384	1 650	4 034	5 924	2 964	8 888
4121	Road and bridge construction	179	2 275	2 454	2 027	24	3 099	3 123	597	762	1 359
4122	Non-building construction nec	636	11 559	12 196	1 615	65	621	686	836	12 289	13 125
412	Total non-building construction	815	13 835	14 650	3 642	89	3 720	3 809	1 433	13 051	14 483
41	Total general construction	6 661	17 401	24 062	7 153	2 473	5 370	7 843	7 356	16 015	23 372
4231	Concreting	89	217	306	335	-	183	183	227	232	459
4232	Bricklaying	76 (a)	185	261	165	54 (a)	212	266	40 (a)	121	161 (a)
4233	Roof tiling	-	26	26	27	-	34	34	-	19	19
4234	Floor and wall tiling	-	93	93	51	-	56	56	-	88	88
4241	Structural steel erection	90	135	226	93	7	40	47	84	188	272
4242	Plumbing	199 (a)	665	863	586	25	386	411	424	614	1 038
4243	Electrical work	448	882	1 330	520	43	280	322	667	860	1 528
4244	Heating and airconditioning	72	189	262	43	-	63	63	72	170	242
4245	Plastering and plaster fixing	174	160	334	69	-	77	77	174	152	326
4246	Carpentry	31 (a)	189	220	94	-	62	62	31 (a)	221	253
4247	Painting	34	434	468	342	165 (a)	230	394	-67 (a)	482	415
4248	Earthmoving and dredging	148	2 533	2 681	2 322	147 (a)	2 588	2 735	618	1 649	2 267
4249	Special trades nec	42	1 188	1 229	575	21 (a)	198	220	144	1 441	1 585
42	Total special trade construction	1 403	6 895	8 298	5 222	462	4 407	4 869	2 415	6 237	8 652
41-42	Total construction	8 064	24 296	32 360	12 375	2 935	9 777	12 712	9 771	22 252	32 023

(a) Published for completeness, note high standard error.

TABLE 4 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - FIXED CAPITAL EXPENDITURE BY TYPE OF ASSET AND TRANSACTION BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Capital expenditure on New fixed tangible assets: Buildings and other structures	Vehicles, plant and machinery	Total	Land and second hand assets	Disposals of fixed tangible assets: Land, buildings and other structures	Vehicles, plant and machinery	Total	Fixed capital expenditure less disposals: Land, buildings and other structures	Vehicles, plant and machinery	Total
4111	House construction	32.4	19.1	18.9	30.2	43.0	22.3	31.4	134.4	21.6	38.6
4112	Residential building construction nec	69.4	41.3	60.3	68.6	-	29.4	29.4	68.3	85.1	62.9
4113	Non-residential building construction	55.3	18.0	38.2	1.7	30.7	7.9	12.4	36.6	20.7	29.3
411	Total building construction	30.7	12.8	19.7	11.3	37.2	13.5	23.7	32.2	14.8	21.8
4121	Road and bridge construction	24.7	0.9	2.0	9.7	-	1.3	1.3	17.9	12.9	14.5
4122	Non-building construction nec	0.3	1.6	1.5	2.7	-	10.4	9.4	4.5	1.4	1.4
412	Total non-building construction	5.4	1.3	1.3	5.5	-	2.0	2.0	7.9	1.5	1.9
41	Total general construction	26.9	2.8	7.7	6.2	35.9	4.4	12.2	26.0	3.0	8.3
4231	Concreting	42.9	14.5	16.0	8.8	-	12.3	12.3	16.8	18.0	12.2
4232	Bricklaying	65.7	25.1	26.0	20.9	92.5	20.9	24.4	181.6	45.5	57.0
4233	Roof tiling	-	1.8	1.8	33.9	-	27.3	27.3	-	42.3	42.3
4234	Floor and wall tiling	-	29.7	29.7	24.0	-	22.6	22.6	-	31.0	31.0
4241	Structural steel erection	-	13.4	8.1	13.9	-	8.8	7.5	-	14.6	10.1
4242	Plumbing	64.9	11.5	17.2	21.3	-	13.9	13.1	38.1	15.3	18.3
4243	Electrical work	29.1	15.5	14.1	20.4	-	18.7	16.2	33.2	13.3	16.7
4244	Heating and airconditioning	1.0	3.7	2.9	11.9	-	4.7	4.7	1.0	4.1	3.1
4245	Plastering and plaster fixing	43.2	15.7	23.5	19.7	-	11.5	11.5	43.2	16.1	23.9
4246	Carpentry	55.3	17.0	16.5	21.1	-	18.6	18.6	55.3	14.1	14.0
4247	Painting	17.2	20.6	19.1	16.3	57.7	15.6	25.5	123.3	14.3	26.0
4248	Earthmoving and dredging	7.0	4.2	4.0	10.9	53.8	2.7	3.7	19.1	17.3	13.4
4249	Special trades nec	39.1	12.9	12.5	13.2	74.3	12.1	15.1	21.1	12.8	11.8
42	Total special trade construction	14.9	3.9	4.1	6.1	29.1	2.8	3.7	13.7	6.2	5.9
41-42	Total construction	22.4	2.3	5.8	4.4	30.6	2.7	7.7	19.8	2.8	6.3

TABLE 5 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - ESTABLISHMENTS OPERATING, EMPLOYMENT, WAGES AND SALARIES BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

ASIC Code	Industry class	Establishments operating		Working proprietors and partners at 30 June 1979		Employees at 30 June 1979		Employment at 30 June 1979		Wages and salaries paid to		
		During the year No	At 30 June 1979 No	On-site No	Off-site No	On-site No	Off-site No	On-site No	Off-site No	On-site employees $'000	Off-site employees $'000	Total employees $'000
4111	House construction	985	954	734	640	1 104	938	1 838	1 578	11 827	10 696	22 523
4112	Residential building construction nec	210	207	138	106	128	103	266	208	1 084	663	1 747
4113	Non-residential building construction	294	293	195	115	2 049	770	2 245	884	27 835	10 072	37 907
411	Total building construction	1 489	1 454	1 067	860	3 281	1 810	4 349	2 670	40 747	21 431	62 177
4121	Road and bridge construction	84	83	40	35	822	251	863	286	10 694	3 010	13 704
4122	Non-building construction nec	166	154	73	54	1 771	568	1 844	622	33 912	8 048	41 960
412	Total non-building construction	250	237	113	89	2 593	819	2 707	908	44 606	11 058	55 664
41	Total general construction	1 739	1 691	1 181	949	5 875	2 629	7 055	3 578	85 353	32 489	117 841
4231	Concreting	210	198	200	149	380	83	580	233	4 375	601	4 976
4232	Bricklaying	460	453	455	228	337	34	792	262	2 837	170	3 007
4233	Roof tiling	35	35	34	25	71	16	106	41	478	280	758
4234	Floor and wall tiling	142	139	155	91	50	19	205	110	478	152	630
4241	Structural steel erection	49	46	36	22	170	32	206	55	2 517	410	2 927
4242	Plumbing	473	441	380	281	1 024	282	1 405	563	10 817	2 755	13 571
4243	Electrical work	430	414	331	268	1 518	395	1 849	662	22 900	4 049	26 949
4244	Heating and airconditioning	69	69	41	32	475	245	516	277	5 186	2 810	7 997
4245	Plastering and plaster fixing	264	257	278	186	230	74	508	260	1 974	553	2 527
4246	Carpentry	315	305	280	212	235	41	515	253	2 557	293	2 850
4247	Painting	520	479	488	315	614	82	1 102	397	7 427	893	8 320
4248	Earthmoving and dredging	162	162	137	102	633	292	770	394	8 327	3 284	11 611
4249	Special trades nec	379	360	286	224	627	274	913	498	6 567	2 328	8 895
42	Total special trade construction	3 509	3 360	3 101	2 134	6 365	1 870	9 467	4 005	76 440	18 577	95 018
41-42	Total construction	5 248	5 052	4 282	3 084	12 240	4 499	16 522	7 583	161 793	51 066	212 859

TABLE 5 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - ESTABLISHMENTS OPERATING, EMPLOYMENT, WAGES AND SALARIES BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Establishments operating During the year	Establishments operating At 30 June 1979	Working proprietors and partners at 30 June 1979 On-site	Working proprietors and partners at 30 June 1979 Off-site	Employees at 30 June 1979 On-site	Employees at 30 June 1979 Off-site	Employment at 30 June 1979 On-site	Employment at 30 June 1979 Off-site	Wages and salaries paid to On-site employees	Wages and salaries paid to Off-site employees	Wages and salaries paid to Total employees
4111	House construction	7.7	8.0	13.2	15.1	7.9	7.3	7.4	7.1	7.1	5.5	4.9
4112	Residential building construction nec	22.8	23.1	31.9	33.7	23.9	26.8	20.0	21.0	19.0	13.0	15.9
4113	Non-residential building construction	14.9	15.0	28.4	29.1	8.2	3.2	8.7	5.7	6.0	2.8	4.9
411	Total building construction	5.0	5.2	9.8	11.6	5.6	4.2	5.0	4.3	4.4	3.0	3.4
4121	Road and bridge construction	3.9	4.0	9.0	10.3	1.6	3.5	1.7	3.2	1.0	1.3	0.9
4122	Non-building construction nec	7.9	8.5	11.3	14.5	2.0	2.4	2.0	2.4	1.8	2.0	1.8
412	Total non-building construction	5.3	5.6	7.7	9.4	1.5	2.0	1.4	1.9	1.4	1.5	1.4
41	Total general construction	4.3	4.5	8.9	10.5	3.2	2.9	3.1	3.3	2.2	2.0	1.9
4231	Concreting	3.6	4.2	6.1	9.7	3.3	6.0	2.9	6.3	2.6	10.3	2.6
4232	Bricklaying	5.6	5.7	5.9	8.0	10.9	34.3	5.7	8.0	12.3	23.0	12.2
4233	Roof tiling	9.6	9.6	11.7	13.2	6.4	-	7.2	8.1	5.2	-	3.3
4234	Floor and wall tiling	4.0	4.1	4.7	6.2	8.9	15.1	4.2	5.6	7.7	13.4	8.1
4241	Structural steel erection	6.3	6.8	13.3	15.0	5.9	7.8	5.5	7.7	4.9	5.1	4.3
4242	Plumbing	3.5	4.4	6.4	8.5	2.9	5.7	2.8	4.7	2.7	4.1	2.5
4243	Electrical work	2.9	3.3	4.9	8.3	2.2	2.5	2.0	3.6	1.3	2.5	1.2
4244	Heating and airconditioning	7.4	7.4	12.9	16.1	1.4	0.5	1.9	1.8	1.3	0.2	0.9
4245	Plastering and plaster fixing	2.7	2.8	4.2	5.8	5.2	5.4	3.2	4.2	4.3	4.0	3.9
4246	Carpentry	5.2	5.4	6.2	8.0	11.2	23.2	6.1	7.4	9.7	24.3	11.0
4247	Painting	2.3	3.7	4.3	7.4	3.6	5.2	2.9	5.8	2.9	1.6	2.6
4248	Earthmoving and dredging	6.4	6.4	8.5	11.9	3.2	2.4	3.3	3.1	1.8	1.1	1.5
4249	Special trades nec	4.7	4.9	7.2	8.4	4.2	3.2	3.4	4.1	3.7	2.2	2.9
42	Total special trade construction	1.2	1.3	1.7	2.5	1.2	1.5	1.0	1.4	0.9	1.1	0.8
41-42	Total construction	1.5	1.6	2.7	3.6	1.6	1.8	1.4	1.7	1.2	1.3	1.1

TABLE 6 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - EMPLOYMENT BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-1979

NUMBER

ASIC Code	Industry class	Working proprietors and partners at 30 June 1979		Employees at 30 June 1979		Employment at 30 June 1979			Average employment over whole year		
		Male	Female	Male	Female	Male	Female	Persons	Male	Female	Persons
4111	House construction	890	484	1 660	381	2 550	866	3 416	2 604	874	3 478
4112	Residential building construction nec	143	101	164	67	306	168	474	310	171	480
4113	Non-residential building construction	203	108	2 597	222	2 799	330	3 129	3 012	321	3 333
411	Total building construction	1 235	693	4 421	671	5 655	1 364	7 019	5 926	1 366	7 292
4121	Road and bridge construction	47	28	1 009	64	1 056	93	1 149	1 087	88	1 176
4122	Non-building construction nec	83	44	2 113	226	2 196	270	2 466	2 568	277	2 845
412	Total non-building construction	130	73	3 122	290	3 252	363	3 614	3 655	365	4 020
41	Total general construction	1 365	766	7 543	961	8 907	1 726	10 633	9 581	1 731	11 312
4231	Concreting	207	142	408	56	615	198	813	628	192	820
4232	Bricklaying	460	223	340	31	800	254	1 054	799	252	1 051
4233	Roof tiling	34	25	83	4	118	29	147	113	29	142
4234	Floor and wall tiling	151	95	58	11	210	105	315	216	108	323
4241	Structural steel erection	36	23	193	10	228	33	261	257	34	290
4242	Plumbing	396	265	1 161	146	1 556	411	1 968	1 617	417	2 034
4243	Electrical work	360	239	1 746	167	2 105	406	2 511	2 320	407	2 728
4244	Heating and airconditioning	45	27	660	60	705	88	793	684	87	771
4245	Plastering and plaster fixing	281	182	274	31	555	213	768	561	213	774
4246	Carpentry	289	203	248	28	537	232	768	539	228	767
4247	Painting	493	310	659	38	1 151	347	1 498	1 191	349	1 540
4248	Earthmoving and dredging	152	87	837	87	990	174	1 164	993	175	1 168
4249	Special trades nec	303	207	797	104	1 101	311	1 412	1 125	316	1 441
42	Total special trade construction	3 207	2 030	7 464	771	10 671	2 801	13 472	11 044	2 806	13 850
41-42	Total construction	4 571	2 795	15 007	1 732	19 578	4 527	24 105	20 625	4 537	25 162

TABLE 6 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - EMPLOYMENT BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Working proprietors and partners at 30 June 1979		Employees at 30 June 1979		Employment at 30 June 1979			Average employment over whole year		
		Male	Female	Male	Female	Male	Female	Persons	Male	Female	Persons
4111	House construction	11.3	15.3	5.8	10.1	5.5	9.3	5.8	5.5	9.2	5.7
4112	Residential building construction nec	30.8	35.2	21.5	38.1	18.2	25.5	19.8	18.0	25.1	19.5
4113	Non-residential building construction	27.4	30.8	7.2	4.3	7.6	10.4	7.7	6.9	10.6	7.0
411	Total building construction	8.4	11.7	4.6	6.8	4.1	6.3	3.9	3.8	6.3	3.7
4121	Road and bridge construction	8.0	11.6	1.5	3.3	1.6	4.1	1.7	1.5	4.3	1.6
4122	Non-building construction nec	10.3	14.1	1.8	5.1	1.8	4.7	1.9	1.7	4.5	1.9
412	Total non-building construction	6.9	9.4	1.3	4.0	1.3	3.6	1.4	1.3	3.5	1.4
41	Total general construction	7.7	10.6	2.8	4.9	2.6	5.0	2.6	2.4	5.0	2.4
4231	Concreting	5.9	8.5	3.0	6.5	2.7	6.1	3.1	2.7	6.3	3.1
4232	Bricklaying	5.8	8.1	10.9	38.2	5.6	8.2	5.1	5.7	8.3	5.2
4233	Roof tiling	11.7	13.2	5.4	-	6.5	11.4	7.1	6.6	11.4	7.1
4234	Floor and wall tiling	4.7	5.9	8.6	22.9	4.1	5.7	4.2	3.7	5.6	3.8
4241	Structural steel erection	13.0	14.6	5.2	11.2	4.9	10.4	5.1	4.4	10.1	4.6
4242	Plumbing	6.2	8.7	2.8	5.8	2.6	5.6	2.8	2.5	5.5	2.7
4243	Electrical work	4.8	8.2	2.0	5.3	1.9	5.1	2.1	1.7	5.0	1.9
4244	Heating and airconditioning	11.7	17.5	1.0	2.2	1.4	5.5	1.8	1.3	5.5	1.6
4245	Plastering and plaster fixing	4.1	5.9	4.4	12.7	3.0	5.1	3.1	2.6	5.1	2.8
4246	Carpentry	6.0	8.1	13.3	17.0	6.9	7.1	6.0	6.8	7.2	6.0
4247	Painting	4.3	7.5	3.4	10.6	2.8	6.6	3.1	2.6	6.6	2.8
4248	Earthmoving and dredging	8.0	13.5	2.7	5.8	2.9	6.6	3.0	2.3	6.6	2.6
4249	Special trades nec	6.8	8.9	3.4	7.2	2.9	6.2	3.1	2.8	6.1	3.0
42	Total special trade construction	1.7	2.6	1.1	2.7	0.9	1.9	0.9	0.9	1.9	0.9
41-42	Total construction	2.5	3.4	1.5	2.9	1.3	2.2	1.2	1.2	2.2	1.2

TABLE 7 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - EMPLOYMENT ON-SITE BY INDUSTRY CLASS AND OCCUPATION AT 30 JUNE 1979, WESTERN AUSTRALIA

NUMBER

ASIC Code	Industry class	Boilermakers and structural steel workers	Bricklayers	Carpenters and joiners	Concreters	Drainers	Electricians and electrical fitters	Floor and wall tilers	Labourers			Mechanical plant operators
									Builders	Bricklayers	Others	
4111	House construction	-	82	950	2 (a)	2	5	2	99	14	47	15 (a)
4112	Residential building construction nec	-	10 (a)	89	-	-	-	-	22	-	6	-
4113	Non-residential building construction	17	103	919	50	5	29	6	390	31 (a)	111	46
411	Total building construction	17	195	1 958	71	7	34	8	511	45	165	61
4121	Road and bridge construction	11	-	-	10	9	-	-	6	-	217	391
4122	Non-building construction nec	242	18	63	57	19	65	2	52	15	329	212
412	Total non-building construction	253	18	63	67	28	65	2	58	15	546	602
41	Total general construction	270	213	2 021	138	35	99	10	570	60	711	663
4231	Concreting	-	-	11	463	-	-	8	11	-	35	11
4232	Bricklaying	-	674	-	-	-	-	-	-	110	2 (a)	-
4233	Roof tiling	-	-	-	-	-	-	-	-	-	10	-
4234	Floor and wall tiling	-	-	-	-	-	-	184	-	-	-	-
4241	Structural steel erection	45	-	2	-	-	-	-	9 (a)	-	23	5
4242	Plumbing	-	1	-	-	44	3	-	5	-	34	12
4243	Electrical work	6	-	-	-	-	1 707	-	-	-	39	1
4244	Heating and airconditioning	-	-	-	-	-	46	-	-	-	10	-
4245	Plastering and plaster fixing	-	-	-	3	-	-	-	7	-	24	-
4246	Carpentry	-	-	458	8	-	-	-	16	-	20	-
4247	Painting	-	-	7 (a)	-	-	-	-	-	-	8	-
4248	Earthmoving and dredging	-	-	-	-	4 (a)	-	-	2	-	61	579
4249	Special trades nec	3 (a)	-	4 (a)	4	7 (a)	24	-	4 (a)	-	84	56
42	Total special trade construction	54	675	483	478	55	1 781	192	54	110	350	663
41-42	Total construction	324	888	2 504	616	90	1 879	202	623	171	1 061	1 326

(a) Published for completeness, note high standard error.

TABLE 7 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - EMPLOYMENT ON-SITE BY INDUSTRY CLASS AND OCCUPATION AT 30 JUNE 1979, WESTERN AUSTRALIA - continued

NUMBER

ASIC Code	Industry class	Motor truck drivers	Painters	Plasterers	Plumbers, pipe jointers and sprinkler fitters	Refrigeration mechanics	Riggers	Roof tilers	Sheetmetal workers	Welders	Others	Total on-site employment
4111	House construction	9	15	11	54	1	-	-	-	-	512	1 838
4112	Residential building construction nec	1	-	-	-	-	-	-	-	-	137	266
4113	Non-residential building construction	42	63	22	44	8	9	1	5	3	341	2 245
411	Total building construction	52	77	33	98	9	9	1	5	3	991	4 349
4121	Road and bridge construction	124	-	-	2	-	-	-	4	9	80	863
4122	Non-building construction nec	74	7	7	43	3	90	-	1	104	441	1 844
412	Total non-building construction	198	7	7	45	3	90	-	5	113	521	2 707
41	Total general construction	250	84	40	143	12	99	1	10	116	1 512	7 055
4231	Concreting	6	-	6 (a)	-	-	6 (a)	-	-	-	22	580
4232	Bricklaying	-	-	-	-	-	-	-	-	-	6	792
4233	Roof tiling	-	-	-	-	-	-	96	-	-	-	106
4234	Floor and wall tiling	-	-	8	-	-	-	-	-	-	13	205
4241	Structural steel erection	1	-	-	-	-	41	-	-	30	50	206
4242	Plumbing	-	-	-	1 250	-	-	-	8	-	49	1 405
4243	Electrical work	-	-	-	1	2	-	-	2	9	81	1 849
4244	Heating and airconditioning	-	1	-	53	175	4	-	160	3	63	516
4245	Plastering and plaster fixing	6	-	448	-	-	-	-	-	-	20	508
4246	Carpentry	-	-	-	-	-	-	-	-	-	13	515
4247	Painting	-	1 062	-	7	-	-	-	-	-	18	1 102
4248	Earthmoving and dredging	68	-	-	-	-	-	-	-	2	54	770
4249	Special trades nec	1	-	-	56	-	75	-	59	-	535	913
42	Total special trade construction	82	1 063	462	1 367	177	126	96	229	45	924	9 467
41-42	Total construction	332	1 147	502	1 510	189	225	97	239	160	2 435	16 522

(a) Published for completeness, note high standard error.

TABLE 7 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - EMPLOYMENT ON-SITE BY INDUSTRY CLASS AND OCCUPATION AT 30 JUNE 1979, WESTERN AUSTRALIA

STANDARD ERROR PERCENT

ASIC Code	Industry class	Boilermakers and structural steel workers	Bricklayers	Carpenters and joiners	Concreters	Drainers	Electricians and electrical fitters	Floor and wall tilers	Labourers			Mechanical plant operators
									Builders	Bricklayers	Others	
4111	House construction	-	14.2	11.4	54.6	-	-	-	21.6	49.9	45.6	69.4
4112	Residential building construction nec	-	95.1	41.3	-	-	-	-	32.6	-	7.2	-
4113	Non-residential building construction	5.4	40.5	14.4	4.8	-	-	-	5.3	66.3	18.7	0.5
411	Total building construction	5.4	22.7	8.5	16.4	-	-	-	5.9	48.2	18.0	17.0
4121	Road and bridge construction	-	-	-	-	-	-	-	15.1	-	2.2	2.3
4122	Non-building construction nec	1.5	2.0	-	15.6	6.8	9.3	35.4	-	-	2.1	2.6
412	Total non-building construction	1.4	2.0	-	13.3	4.6	9.3	35.4	1.7	-	1.5	1.7
41	Total general construction	1.4	20.8	8.2	10.6	3.7	6.1	7.9	5.3	36.3	4.3	2.2
4231	Concreting	-	-	23.4	3.3	-	-	35.4	-	-	7.1	5.1
4232	Bricklaying	-	5.3	-	-	-	-	-	-	14.4	65.2	-
4233	Roof tiling	-	-	-	-	-	-	-	-	-	20.0	-
4234	Floor and wall tiling	-	-	-	-	-	-	3.9	-	-	-	-
4241	Structural steel erection	9.8	-	-	-	-	-	-	58.3	-	21.4	21.1
4242	Plumbing	-	-	-	-	23.7	-	-	-	-	20.7	35.7
4243	Electrical work	-	-	-	-	-	2.1	-	-	-	14.2	-
4244	Heating and airconditioning	-	-	-	-	-	3.8	-	-	-	19.6	-
4245	Plastering and plaster fixing	-	-	-	-	-	-	-	-	-	28.4	-
4246	Carpentry	-	-	6.4	22.4	-	-	-	7.7	-	15.8	-
4247	Painting	-	-	85.3	-	-	-	-	-	-	46.9	-
4248	Earthmoving and dredging	-	-	-	-	58.1	-	-	18.9	-	7.7	3.3
4249	Special trades nec	82.7	-	50.7	32.4	51.6	14.1	-	85.0	-	12.2	16.1
42	Total special trade construction	9.4	5.3	6.2	3.2	20.2	2.0	4.0	11.7	14.4	5.1	3.3
41-42	Total construction	1.9	6.3	6.7	3.4	12.5	1.9	3.9	4.9	15.9	3.3	1.9

TABLE 7 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - EMPLOYMENT ON-SITE BY INDUSTRY CLASS AND OCCUPATION AT 30 JUNE 1979, WESTERN AUSTRALIA - continued

STANDARD ERROR PERCENT

ASIC Code	Industry class	Motor truck drivers	Painters	Plasterers	Plumbers, pipe jointers and sprinkler fitters	Refrigeration mechanics	Riggers	Roof tilers	Sheetmetal workers	Welders	Others	Total on-site employment
4111	House construction	35.9	22.4	14.1	29.8	-	-	-	-	-	11.7	7.4
4112	Residential building construction nec	39.2	-	-	-	-	-	-	-	-	24.0	20.0
4113	Non-residential building construction	1.5	47.6	23.5	-	-	-	-	-	-	9.8	8.7
411	Total building construction	6.1	38.7	16.2	16.4	-	-	-	-	-	7.0	5.0
4121	Road and bridge construction	3.2	-	-	-	-	-	-	-	-	7.0	1.7
4122	Non-building construction nec	0.7	-	20.9	6.1	-	1.3	-	-	1.1	7.5	2.0
412	Total non-building construction	2.0	-	20.9	5.8	-	1.3	-	-	1.0	6.4	1.4
41	Total general construction	2.0	35.4	13.8	11.4	-	1.2	-	-	1.0	5.0	3.1
4231	Concreting	9.2	-	82.3	-	-	58.3	-	-	-	22.8	2.9
4232	Bricklaying	-	-	-	-	-	-	-	-	-	16.1	5.7
4233	Roof tiling	-	-	-	-	-	-	7.2	-	-	-	7.2
4234	Floor and wall tiling	-	-	30.2	-	-	-	-	-	-	34.8	4.2
4241	Structural steel erection	-	-	-	-	-	11.3	-	-	8.0	13.8	5.5
4242	Plumbing	-	-	-	3.1	-	-	-	31.9	-	7.0	2.8
4243	Electrical work	-	-	-	12.9	-	-	-	9.0	43.8	5.5	2.0
4244	Heating and airconditioning	-	-	-	3.0	4.3	-	-	3.4	-	5.6	1.9
4245	Plastering and plaster fixing	-	-	3.1	-	-	-	-	-	-	2.9	3.2
4246	Carpentry	-	-	-	-	-	-	-	-	-	33.3	6.1
4247	Painting	-	3.0	-	-	-	-	-	-	-	11.0	2.9
4248	Earthmoving and dredging	3.9	-	-	-	-	-	-	-	-	12.2	3.3
4249	Special trades nec	32.4	-	-	13.4	-	6.1	-	11.6	-	5.2	3.4
42	Total special trade construction	3.3	3.0	3.3	2.9	4.3	5.8	7.2	4.0	10.5	3.4	1.0
41-42	Total construction	1.7	3.8	3.2	2.6	4.0	3.3	7.1	3.8	3.0	3.3	1.4

TABLE 8 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - EMPLOYEES AT LAST PAY PERIOD OF EACH MONTH BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

NUMBER

ASIC Code	Industry class	Employees (a) at the last pay period of												
		1978							1979					
		June	July	August	September	October	November	December	January	February	March	April	May	June
4111	House construction	2 038	2 125	2 123	2 115	2 179	2 169	2 121	2 012	2 055	2 029	2 002	2 035	2 042
4112	Residential building construction nec	249	248	242	243	250	246	246	230	226	222	228	239	231
4113	Non-residential building construction	3 378	3 170	3 307	3 363	3 213	3 142	2 974	2 923	2 865	2 855	2 799	2 758	2 819
411	Total building construction	5 664	5 543	5 672	5 721	5 642	5 557	5 341	5 164	5 146	5 107	5 030	5 031	5 091
4121	Road and bridge construction	1 142	1 141	1 138	1 152	1 153	1 143	1 060	1 069	1 041	1 054	1 072	1 069	1 073
4122	Non-building construction nec	2 869	2 844	3 163	3 161	2 957	2 841	2 749	2 763	2 591	2 514	2 347	2 207	2 337
412	Total non-building construction	4 011	3 985	4 300	4 313	4 110	3 984	3 809	3 832	3 633	3 567	3 419	3 276	3 410
41	Total general construction	9 675	9 528	9 972	10 035	9 752	9 540	9 150	8 996	8 779	8 674	8 449	8 307	8 501
4231	Concreting	433	427	458	471	503	527	486	474	459	446	453	460	464
4232	Bricklaying	321	320	313	356	393	396	353	366	383	362	346	363	371
4233	Roof tiling	88	84	84	86	86	88	86	81	78	81	47	84	87
4234	Floor and wall tiling	87	88	82	82	81	78	79	78	77	74	72	75	69
4241	Structural steel erection	291	308	317	290	279	223	201	180	190	194	183	187	203
4242	Plumbing	1 424	1 401	1 382	1 502	1 387	1 387	1 352	1 343	1 335	1 331	1 312	1 313	1 307
4243	Electrical work	2 091	2 146	2 254	2 275	2 199	2 298	2 165	2 166	2 135	2 067	1 973	1 901	1 913
4244	Heating and airconditioning	648	661	663	676	704	721	722	699	699	686	712	714	720
4245	Plastering and plaster fixing	308	314	311	315	323	327	323	303	299	304	295	298	305
4246	Carpentry	272	272	268	274	279	277	268	261	257	288	287	289	276
4247	Painting	734	722	748	747	741	796	772	723	740	709	703	706	696
4248	Earthmoving and dredging	933	889	931	927	927	943	923	924	920	950	952	952	924
4249	Special trades nec	867	906	922	947	950	957	958	907	895	902	887	893	901
42	Total special trade construction	8 497	8 538	8 733	8 949	8 851	9 019	8 690	8 506	8 465	8 396	8 224	8 237	8 236
41-42	Total construction	18 172	18 066	18 706	18 983	18 603	18 559	17 840	17 502	17 244	17 070	16 673	16 544	16 737

(a) Employees of construction establishments excluding central ancillary units. See paragraph 5.3 for further details.

TABLE 8 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - EMPLOYEES AT LAST PAY PERIOD OF EACH MONTH BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Employees (a) at the last pay period of												
		1978							1979					
		June	July	August	September	October	November	December	January	February	March	April	May	June
4111	House construction	5.8	5.7	5.7	5.7	5.8	5.8	5.7	5.7	5.7	5.5	5.6	5.6	5.7
4112	Residential building construction nec	21.1	23.2	23.5	23.4	22.8	23.2	23.2	24.3	24.7	25.0	24.9	24.1	24.6
4113	Non-residential building construction	5.7	5.8	5.5	5.4	5.6	5.8	6.1	6.3	6.6	6.3	6.5	6.6	6.7
411	Total building construction	3.9	3.9	3.8	3.7	3.8	3.9	4.0	4.2	4.2	4.1	4.2	4.2	4.3
4121	Road and bridge construction	2.8	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.4	1.5	1.5
4122	Non-building construction nec	1.9	1.9	1.7	1.7	1.8	1.9	2.0	2.0	2.4	2.4	2.0	2.1	2.0
412	Total non-building construction	1.5	1.4	1.3	1.3	1.4	1.4	1.5	1.5	1.7	1.8	1.4	1.5	1.5
41	Total general construction	2.4	2.3	2.2	2.2	2.3	2.3	2.4	2.5	2.6	2.5	2.5	2.6	2.6
4231	Concreting	3.3	3.4	3.3	3.0	2.8	2.8	3.5	3.1	3.1	3.2	3.1	3.1	3.5
4232	Bricklaying	11.8	11.8	11.5	10.7	11.8	12.9	11.1	11.0	12.5	12.0	12.8	12.6	11.3
4233	Roof tiling	5.1	5.3	5.3	5.2	5.2	5.1	5.2	5.5	4.9	4.8	8.2	4.6	5.2
4234	Floor and wall tiling	10.1	10.0	8.1	8.2	7.9	8.1	8.0	8.1	8.2	8.4	8.9	8.6	9.2
4241	Structural steel erection	5.1	5.1	5.1	4.3	4.2	4.4	4.7	4.7	4.9	4.6	4.8	5.7	5.3
4242	Plumbing	2.6	2.6	2.7	2.8	2.8	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.8
4243	Electrical work	2.0	1.9	1.9	1.8	1.7	1.7	1.8	1.8	1.8	1.9	1.9	2.0	2.1
4244	Heating and airconditioning	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0
4245	Plastering and plaster fixing	4.3	4.5	4.4	4.1	4.0	4.2	4.2	4.4	4.4	4.5	4.3	4.3	4.6
4246	Carpentry	12.8	12.8	13.1	12.7	12.5	12.5	13.3	13.5	13.6	12.2	12.1	12.4	12.7
4247	Painting	3.1	3.1	3.2	3.2	3.3	3.2	3.1	3.2	3.0	3.0	3.2	3.4	3.3
4248	Earthmoving and dredging	2.1	2.0	2.0	2.0	2.0	1.8	1.8	1.8	2.0	2.2	2.6	2.5	2.7
4249	Special trades nec	3.7	3.6	3.5	3.4	3.5	3.4	3.4	3.1	3.6	3.2	3.2	3.3	3.3
42	Total special trade construction	1.1	1.1	1.0	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.1
41-42	Total construction	1.3	1.3	1.3	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4

(a) Employees of construction establishments excluding central ancillary units. See paragraph 5.3 for further details.

TABLE 9 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - SELECTED RATIOS BY INDUSTRY CLASS FOR ESTABLISHMENTS OPERATING DURING 1978-79, WESTERN AUSTRALIA

ASIC Code	Industry class	Value added / turnover	Value added / average employment $'000	Wages / value added	Wages/average employees $'000	Average employment (a) No.	Average turnover (a) $'000	Average value added (a) $'000
4111	House construction	0.21	19.4	0.33	10.7	3.5	324.4	68.4
4112	Residential building construction nec	0.19	14.2	0.26	7.4	2.3	170.7	32.6
4113	Non-residential building construction	0.21	18.3	0.62	12.5	11.3	979.3	207.9
411	Total building construction	0.21	18.6	0.46	11.6	4.9	432.0	90.9
4121	Road and bridge construction	0.34	20.4	0.57	12.5	14.0	842.8	285.5
4122	Non-building construction nec	0.34	24.7	0.60	15.4	17.1	1 258.0	423.6
412	Total non-building construction	0.34	23.5	0.59	14.6	16.1	1 118.5	377.2
41	Total general construction	0.25	20.3	0.51	12.8	6.5	530.7	132.1
4231	Concreting	0.36	12.4	0.49	10.6	3.9	134.6	48.5
4232	Bricklaying	0.61	8.2	0.35	8.2	2.3	30.9	18.7
4233	Roof tiling	0.31	21.3	0.25	9.2	4.1	276.9	86.6
4234	Floor and wall tiling	0.52	8.4	0.23	8.2	2.3	36.9	19.2
4241	Structural steel erection	0.61	17.7	0.57	12.6	5.9	171.2	105.1
4242	Plumbing	0.41	12.5	0.53	9.9	4.3	130.5	53.9
4243	Electrical work	0.49	14.7	0.67	12.7	6.3	188.8	93.2
4244	Heating and airconditioning	0.32	15.4	0.67	11.4	11.2	542.5	172.0
4245	Plastering and plaster fixing	0.43	9.3	0.35	8.1	2.9	63.0	27.3
4246	Carpentry	0.54	9.1	0.41	10.4	2.4	40.6	22.1
4247	Painting	0.58	11.1	0.49	11.3	3.0	56.4	32.8
4248	Earthmoving and dredging	0.45	18.6	0.53	12.5	7.2	297.8	134.2
4249	Special trades nec	0.40	13.1	0.47	9.6	3.8	125.4	49.8
42	Total special trade construction	0.45	12.9	0.53	11.0	3.9	114.2	51.0
41-42	Total construction	0.31	16.2	0.52	12.0	4.8	252.2	77.9

(a) Average per operating establishment.

TABLE 9 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - SELECTED RATIOS BY INDUSTRY CLASS FOR ESTABLISHMENTS OPERATING DURING 1978-79, WESTERN AUSTRALIA

STANDARD ERROR PERCENT

ASIC Code	Industry class	Value added / turnover	Value added / average employment	Wages / value added	Wages/average employees	Average employment (a)	Average turnover (a)	Average value added (a)
4111	House construction	5.0	6.3	4.9	2.7	4.4	7.9	8.0
4112	Residential building construction nec	23.7	28.0	34.5	12.7	7.0	15.9	29.4
4113	Non-residential building construction	2.3	2.1	1.5	1.5	10.9	12.7	12.5
411	Total building construction	3.0	3.4	3.0	1.4	3.9	5.1	5.4
4121	Road and bridge construction	0.8	1.1	0.8	0.6	2.8	3.6	3.4
4122	Non-building construction nec	0.7	0.6	0.3	0.5	6.4	6.9	6.7
412	Total non-building construction	0.6	0.5	0.3	0.4	4.2	4.5	4.4
41	Total general construction	1.9	2.1	1.8	0.9	3.3	4.1	4.2
4231	Concreting	2.2	2.6	2.2	1.6	3.1	4.1	3.2
4232	Bricklaying	3.5	2.8	8.5	4.1	4.7	5.5	5.1
4233	Roof tiling	1.3	5.2	1.9	2.6	3.2	8.9	7.7
4234	Floor and wall tiling	3.7	3.0	5.9	4.9	2.3	5.5	3.2
4241	Structural steel erection	2.2	2.7	1.9	1.8	3.9	6.0	5.2
4242	Plumbing	1.7	2.1	2.2	1.1	2.9	4.1	3.8
4243	Electrical work	0.6	1.0	0.8	0.8	2.2	2.5	2.4
4244	Heating and airconditioning	0.5	1.1	0.5	0.4	5.9	7.0	6.8
4245	Plastering and plaster fixing	2.5	2.6	3.7	1.6	2.2	3.8	3.4
4246	Carpentry	2.8	3.1	6.1	3.5	4.7	8.0	6.4
4247	Painting	1.6	2.5	2.5	1.5	2.7	2.6	2.9
4248	Earthmoving and dredging	0.8	1.5	1.2	1.0	4.8	5.9	5.8
4249	Special trades nec	2.4	2.4	2.2	1.7	2.9	4.7	3.9
42	Total special trade construction	0.5	0.6	0.6	0.4	1.0	1.2	1.1
41-42	Total construction	1.3	1.2	1.0	0.5	1.2	2.0	1.7

(a) Average per operating establishment.

TABLE 10 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - NUMBER OF ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY TURNOVER SIZE BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

NUMBER

ASIC Code	Industry class	Less than $10000	$10000 but less than $50000	$50000 but less than $100000	$100000 but less than $500000	$500000 but less than $1000000	$1000000 but less than $5000000	$5000000 and over	Total
4111	House construction	52(a)	187	176	347	73	61	8	903
4112	Residential building construction nec	27(a)	58	1	107	12	3	-	207
4113	Non-residential building construction	-	71	3	114	47	44	11	291
411	Total building construction	78	316	181	568	131	108	19	1 401
4121	Road and bridge construction	-	10	14	33	7	13	4	82
4122	Non-building construction nec	4(a)	23	28	57	11	16	11	150
412	Total non-building construction	4(a)	33	42	90	19	29	15	232
41	Total general construction	82	349	223	658	150	137	34	1 633
4231	Concreting	6(a)	64	52	61	6	3	-	193
4232	Bricklaying	32	356	15	10	3	-	-	415
4233	Roof tiling	1	31	1	1	-	-	1	35
4234	Floor and wall tiling	14	114	3	4	1	-	-	136
4241	Structural steel erection	-	12	14	13	5	1	-	45
4242	Plumbing	6(a)	178	109	122	13	8	-	437
4243	Electrical work	9(a)	173	91	109	15	11	2	411
4244	Heating and airconditioning	6(a)	12	19	10	9	13	-	69
4245	Plastering and plaster fixing	18	165	34	31	1	2	-	252
4246	Carpentry	24	244	20	10	6	-	-	304
4247	Painting	33	330	61	33	7	3	-	468
4248	Earthmoving and dredging	-	67	28	51	4	11	1	162
4249	Special trades nec	10(a)	165	87	75	11	5	-	352
42	Total special trade construction	160	1 913	535	529	81	57	4	3 279
41-42	Total construction	242	2 262	758	1 187	230	194	38	4 911

(a) Published for completeness, note high standard error.

TABLE 10 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - NUMBER OF ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY TURNOVER SIZE BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Less than $10000	$10000 but less than $50000	$50000 but less than $100000	$100000 but less than $500000	$500000 but less than $1000000	$1000000 but less than $5000000	$5000000 and over	Total
4111	House construction	58.6	24.6	27.6	14.1	34.4	18.3	-	8.4
4112	Residential building construction nec	79.6	46.2	-	33.3	44.3	14.6	-	23.1
4113	Non-residential building construction	-	49.3	21.9	15.0	46.1	7.7	-	15.1
411	Total building construction	46.4	19.0	26.9	10.2	25.1	10.7	-	5.4
4121	Road and bridge construction	-	12.8	21.0	6.0	9.1	5.0	-	4.1
4122	Non-building construction nec	85.0	26.7	18.5	19.8	6.2	-	-	8.7
412	Total non-building construction	85.0	19.3	13.8	12.6	5.2	2.3	-	5.7
41	Total general construction	44.6	17.3	22.0	8.9	22.0	8.4	-	4.7
4231	Concreting	57.5	14.1	14.5	8.9	10.4	17.6	-	4.5
4232	Bricklaying	27.3	5.2	23.2	27.0	31.1	-	-	4.1
4233	Roof tiling	-	10.8	-	-	-	-	-	9.6
4234	Floor and wall tiling	23.5	5.3	40.1	29.8	-	-	-	4.3
4241	Structural steel erection	-	19.2	16.4	14.4	11.3	-	-	7.0
4242	Plumbing	66.5	12.3	14.9	10.8	2.1	-	-	4.5
4243	Electrical work	60.0	9.3	15.4	7.8	1.5	-	-	3.3
4244	Heating and airconditioning	67.1	20.8	14.7	12.9	-	-	-	7.4
4245	Plastering and plaster fixing	28.5	5.7	16.8	10.7	-	-	-	3.0
4246	Carpentry	30.1	7.0	15.7	22.3	20.9	-	-	5.4
4247	Painting	40.1	6.3	18.8	5.3	-	-	-	4.0
4248	Earthmoving and dredging	-	16.6	19.5	10.7	-	-	-	6.4
4249	Special trades nec	68.5	10.6	16.9	12.7	7.6	-	-	5.0
42	Total special trade construction	13.4	2.5	5.8	3.9	2.4	1.0	-	1.2
41-42	Total construction	17.5	3.4	7.6	5.2	14.3	5.9	-	1.7

TABLE 11 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - TURNOVER BY TURNOVER SIZE FOR ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

ASIC Code	Industry class	Less than $10000	$10000 but less than $50000	$50000 but less than $100000	$100000 but less than $500000	$500000 but less than $1000000	$1000000 but less than $5000000	$5000000 and over	Total
		$'000							
4111	House construction	295(a)	5 456	12 456	69 350	50 063	107 149	67 425	312 193
4112	Residential building construction nec	133(a)	1 887(a)	57	18 794	6 952	7 243	-	35 066
4113	Non-residential building construction	-	1 698(a)	228	33 367	28 418	97 269	125 419	286 398
411	Total building construction	428(a)	9 041	12 741	121 511	85 433	211 660	192 844	633 658
4121	Road and bridge construction	-	310	999	8 494	5 675	30 061	25 095	70 635
4122	Non-building construction nec	7(a)	752	2 007	12 285	8 143	40 665	137 175	201 036
412	Total non-building construction	7(a)	1 063	3 006	20 780	13 818	70 727	162 271	271 671
41	Total general construction	435(a)	10 104	15 747	142 291	99 252	282 387	355 114	905 329
4231	Concreting	31(a)	1 712	3 973	12 555	4 422	4 625	-	27 318
4232	Bricklaying	269	8 697	916	1 714	1 544	-	-	13 141
4233	Roof tiling	812				8 878			9 690
4234	Floor and wall tiling	110	2 399	154	1801		-	-	4 464
4241	Structural steel erection	-	329	1 087	1 972	4 885		-	8 272
4242	Plumbing	46(a)	4 880	7 593	27 145	8 507	12 189	-	60 361
4243	Electrical work	68(a)	4 842	6 616	21 870	10 213	36 654		80 263
4244	Heating and airconditioning	31(a)	333	1 363	2 984	5 894	26 828	-	37 433
4245	Plastering and plaster fixing	120	4 115	2 132	6 246	3 773		-	16 386
4246	Carpentry	149	5 269	1 260	1 668	4 024	-	-	12 370
4247	Painting	220	8 153	4 202		16 096		-	28 672
4248	Earthmoving and dredging	-	1 939	1 987	11 206	2 511	30 594		48 237
4249	Special trades nec		10 185		15 811	7 181	12 668	-	45 846
42	Total special trade construction	1 094	47 401	37 548	111 417	54 320	105 034	35 638	392 451
41-42	Total construction	1 529	57 504	53 295	253 707	153 572	387 421	390 752	1 297 780

(a) Published for completeness, note high standard error.

TABLE 11 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - TURNOVER BY TURNOVER SIZE FOR ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Less than $10000	$10000 but less than $50000	$50000 but less than $100000	$100000 but less than $500000	$500000 but less than $1000000	$1000000 but less than $5000000	$5000000 and over	Total
4111	House construction	67.7	27.0	26.9	13.2	34.3	13.1	-	7.1
4112	Residential building construction nec	97.6	55.1	-	33.4	38.1	8.2	-	19.5
4113	Non-residential building construction	-	51.4	18.7	17.9	40.3	4.8	-	4.7
411	Total building construction	55.0	21.0	26.3	9.6	24.0	7.0	-	4.0
4121	Road and bridge construction	-	13.3	19.9	6.5	11.5	2.5	-	1.3
4122	Non-building construction nec	85.0	28.3	17.3	20.6	6.1	-	-	1.3
412	Total non-building construction	85.0	20.4	13.0	12.5	5.9	1.1	-	1.0
41	Total general construction	54.0	18.9	21.4	8.3	20.7	5.2	-	2.8
4231	Concreting	63.8	15.2	14.7	5.8	9.7	16.6	-	4.0
4232	Bricklaying	28.2	7.9	22.3	19.7	31.2	-	-	6.5
4233	Roof tiling	9.3				-			0.8
4234	Floor and wall tiling	25.0	5.7	40.6	13.4		-	-	5.9
4241	Structural steel erection	-	22.3	16.1	13.2	8.7		-	5.8
4242	Plumbing	67.3	12.4	13.7	8.9	2.1	-	-	3.7
4243	Electrical work	61.7	10.6	15.4	5.8	1.2	-		1.7
4244	Heating and airconditioning	74.4	24.1	14.4	11.3	-	-	-	1.0
4245	Plastering and plaster fixing	30.4	6.5	16.6	9.6	-		-	3.9
4246	Carpentry	32.9	7.9	15.5	18.9	23.0	-	-	8.3
4247	Painting	42.0	6.8	17.6		1.4		-	2.7
4248	Earthmoving and dredging	-	15.4	20.6	9.5	-	-		2.1
4249	Special trades nec		11.2		11.3	7.6	-	-	4.2
42	Total special trade construction	14.1	2.9	5.7	3.3	2.5	0.7	-	1.0
41-42	Total construction	18.4	4.1	7.5	4.9	13.4	3.8	-	1.9

TABLE 12 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - NUMBER OF ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY VALUE ADDED SIZE BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

NUMBER

ASIC Code	Industry class	Less than $5000	$5000 but less than $25000	$25000 but less than $50000	$50000 but less than $250000	$250000 but less than $500000	$500000 but less than $2500000	$2500000 and over	Total
4111	House construction	256	212	204	197	13	20	2	903
4112	Residential building construction nec	99	26 (a)	34 (a)	43 (a)	4	-	-	207
4113	Non-residential building construction	97	6	30	115	14	24	4	291
411	Total building construction	452	244	268	355	31	44	6	1401
4121	Road and bridge construction	6	5	15	33	9	14	-	82
4122	Non-building construction nec	27	15	27	49	8	15	9	150
412	Total non-building construction	33	20	42	81	18	29	9	232
41	Total general construction	485	264	310	437	49	73	15	1633
4231	Concreting	55	35	52	46	3	2	-	193
4232	Bricklaying	237	119	49	7	3	-	-	415
4233	Roof tiling	10	13	11	-	-	1	-	35
4234	Floor and wall tiling	83	36	14	2	1	-	-	136
4241	Structural steel erection	4	8	9	18	4	2	-	45
4242	Plumbing	124	90	96	109	15	3	-	437
4243	Electrical work	121	75	96	93	14	10	2	411
4244	Heating and airconditioning	11	10	16	21	6	5	-	69
4245	Plastering and plaster fixing	108	66	54	22	2	-	-	252
4246	Carpentry	205	59	28	7	6	-	-	304
4247	Painting	233	111	61	48	11	3	-	468
4248	Earthmoving and dredging	36	31	30	52	3	10	1	162
4249	Special trades nec	132	89	66	52	9	4	-	352
42	Total special trade construction	1360	741	581	477	77	40	3	3279
41-42	Total construction	1844	1006	891	914	126	113	18	4911

(a) Published for completeness, note high standard error.

TABLE 12 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - NUMBER OF ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY VALUE ADDED SIZE BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Less than $5000	$5000 but less than $25000	$25000 but less than $50000	$50000 but less than $250000	$250000 but less than $500000	$500000 but less than $2500000	$2500000 and over	Total
4111	House construction	20.5	25.0	23.1	12.9	17.2	15.7	-	8.4
4112	Residential building construction nec	35.7	53.4	67.1	51.0	14.3	-	-	23.1
4113	Non-residential building construction	38.1	20.3	22.0	21.6	4.6	1.9	-	15.1
411	Total building construction	14.8	22.2	19.3	11.4	7.5	7.1	-	5.4
4121	Road and bridge construction	17.0	19.3	19.6	5.9	7.1	-	-	4.1
4122	Non-building construction nec	24.5	33.3	16.7	21.4	31.9	-	-	8.7
412	Total non-building construction	20.3	25.7	12.6	13.0	15.5	-	-	5.7
41	Total general construction	13.9	20.7	16.7	9.5	7.4	4.2	-	4.7
4231	Concreting	14.5	22.1	14.6	4.7	-	-	-	4.5
4232	Bricklaying	9.1	14.0	18.8	34.7	31.1	-	-	4.1
4233	Roof tiling	26.5	20.5	13.3	-	-	-	-	9.6
4234	Floor and wall tiling	6.5	13.8	19.3	20.8	-	-	-	4.3
4241	Structural steel erection	27.1	27.1	21.5	11.1	13.9	-	-	7.0
4242	Plumbing	16.6	16.9	14.5	10.7	1.5	-	-	4.5
4243	Electrical work	13.6	19.3	14.8	6.1	1.3	-	-	3.3
4244	Heating and airconditioning	35.8	29.1	12.9	5.3	-	-	-	7.4
4245	Plastering and plaster fixing	8.7	12.1	12.2	13.0	-	-	-	3.0
4246	Carpentry	8.7	16.5	13.8	25.9	20.9	-	-	5.4
4247	Painting	9.6	16.3	17.4	15.8	-	-	-	4.0
4248	Earthmoving and dredging	29.2	20.5	18.0	9.9	-	-	-	6.4
4249	Special trades nec	12.8	15.8	19.5	10.9	6.5	-	-	5.0
42	Total special trade construction	3.6	5.2	5.2	3.7	2.2	-	-	1.2
41-42	Total construction	4.4	6.6	6.7	4.9	3.2	2.7	-	1.7

TABLE 13 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE ADDED BY VALUE ADDED SIZE FOR ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

ASIC Code	Industry class	$'000 Less than $5000	$5000 but less than $25000	$25000 but less than $50000	$50000 but less than $250000	$250000 but less than $500000	$500000 but less than $2500000	$2500000 and over	Total
4111	House construction	-420[a]	4 045	7 099	22 008	4 792	28 370		65 895
4112	Residential building construction nec	-573[a]	512[a]	1 022[a]	4 201	1 493	-	-	6 655
4113	Non-residential building construction	130[a]	115	1 117	14 396	4 672	40 205		60 635
411	Total building construction	-862[a]	4 672	9 238	40 605	10 957	46 030	22 544	133 185
4121	Road and bridge construction	34	86	528	3 438	3 484	16 326	-	23 896
4122	Non-building construction nec	151	276	972	5 401	3 058	15 047	43 027	67 932
412	Total non-building construction	185	362	1 500	8 839	6 542	31 373	43 027	91 828
41	Total general construction	-678[a]	5 034	10 738	49 445	17 499	77 403	65 571	225 012
4231	Concreting	249	661	1 872	4 620	2 458		-	9 861
4232	Bricklaying	2 455	2 309	1 654	909	663	-	-	7 989
4233	Roof tiling	97			2 934			-	3 031
4234	Floor and wall tiling	834	1 086			604	-	-	2 524
4241	Structural steel erection	37	150	301	1 602	2 982		-	5 072
4242	Plumbing	954	1 765	3 343	10 981	5 175	2 939	-	25 157
4243	Electrical work	1 018	1 406	3 549	10 299	4 600	18 738		39 610
4244	Heating and airconditioning	68	226	582	3 267	1 864	5 863	-	11 870
4245	Plastering and plaster fixing	1 051	1 223	1 768		3 010	-	-	7 053
4246	Carpentry	2 005	1 101	925	596	2 041	-	-	6 667
4247	Painting	2 249	2 247	1 987	4 503	3 593	2 018	-	16 597
4248	Earthmoving and dredging	348	589	1 008	5 591	1 288	12 919		21 742
4249	Special trades nec	1 169	1 697	2 465	5 010	2 840	4 857	-	18 037
42	Total special trade construction	12 534	14 312	20 214	49 872	25 832	39 321	13 126	175 210
41-42	Total construction	11 856	19 346	30 952	99 317	43 331	116 724	78 690	400 222

(a) Published for completeness, note high standard error.

TABLE 13 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE ADDED BY VALUE ADDED SIZE FOR ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Less than $5000	$5000 but less than $25000	$25000 but less than $50000	$50000 but less than $250000	$250000 but less than $500000	$500000 but less than $2500000	$2500000 and over	Total
4111	House construction	231.8	24.8	22.0	15.1	20.9	7.6		6.5
4112	Residential building construction nec	171.8	52.9	62.7	45.3	12.2	-	-	33.7
4113	Non-residential building construction	256.7	23.5	23.1	25.2	3.8	0.7		6.0
411	Total building construction	166.8	22.0	18.7	12.6	9.4	4.7	-	4.3
4121	Road and bridge construction	34.9	19.4	18.8	6.5	8.7	-	-	1.4
4122	Non-building construction nec	43.6	33.0	15.7	18.7	24.1	-	-	1.8
412	Total non-building construction	36.2	25.5	12.0	11.7	12.2	-	-	1.4
41	Total general construction	212.5	20.5	16.2	10.5	7.5	2.8	-	2.6
4231	Concreting	29.2	22.0	14.2	4.8	-		-	3.2
4232	Bricklaying	9.5	13.9	17.1	33.0	31.1	-	-	5.6
4233	Roof tiling	32.0			2.3			-	2.1
4234	Floor and wall tiling	7.0	10.7		10.8		-	-	4.7
4241	Structural steel erection	25.6	28.0	21.0	10.3	6.0		-	4.4
4242	Plumbing	21.5	17.1	14.0	8.0	1.3	-	-	3.4
4243	Electrical work	16.4	18.9	14.6	4.4	1.3		-	1.5
4244	Heating and airconditioning	26.4	28.3	13.2	3.1	-	-	-	1.0
4245	Plastering and plaster fixing	9.7	12.1	12.1	7.1		-	-	3.8
4246	Carpentry	10.7	16.3	12.8	21.0	19.5	-	-	7.0
4247	Painting	10.4	16.3	16.5	9.2	-	-	-	3.0
4248	Earthmoving and dredging	31.1	20.8	18.0	8.3	-		-	2.0
4249	Special trades nec	14.7	16.0	21.0	7.7	6.9	-	-	3.5
42	Total special trade construction	4.2	5.2	5.2	2.7	2.0	-	-	0.9
41-42	Total construction	12.9	6.6	6.5	5.4	3.2	1.9	-	1.5

TABLE 14 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE ADDED BY TURNOVER SIZE FOR ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

		$'000							
ASIC Code	Industry class	Less than $10000	$10000 but less than $50000	$50000 but less than $100000	$100000 but less than $500000	$500000 but less than $1000000	$1000000 but less than $5000000	$5000000 and over	Total
4111	House construction	130[a]	1 411	4 106	13 195	7 944	21 442	17 666	65 895
4112	Residential building construction nec	88[a]	624[a]	7	3 087[a]	1 727	1 122	-	6 655
4113	Non-residential building construction	-	517[a]	94	7 085	6 289[a]	20 706	25 944	60 635
411	Total building construction	218[a]	2 553	4 207	23 367	15 961	43 269	43 610	133 185
4121	Road and bridge construction	-	144	423	3 283	2 680	10 576	6 789	23 896
4122	Non-building construction nec	6[a]	324	637	5 390	3 826	13 716	44 032	67 932
412	Total non-building construction	6[a]	468	1 061	8 673	6 506	24 293	50 822	91 828
41	Total general construction	224[a]	3 020	5 268	32 041	22 467	67 562	94 431	225 012
4231	Concreting	12[a]	795	1 466	4 692	1 307	1 589	-	9 861
4232	Bricklaying	232	5 714	379	1 002	663	-	-	7 989
4233	Roof tiling	647				2 385			3 031
4234	Floor and wall tiling	79	1 688	107		651	-	-	2 524
4241	Structural steel erection	-	186	677	1 226	2 982		-	5 072
4242	Plumbing	13	2 322	3 485	10 707	3 493	5 137	-	25 157
4243	Electrical work	5[a]	2 184	3 080	10 765	4 365	19 213		39 610
4244	Heating and airconditioning	12[a]	228	653	1 054	1 939	7 985	-	11 870
4245	Plastering and plaster fixing	76	2 551	1 159	2 216	1 050		-	7 053
4246	Carpentry	85	3 210	652	680	2 041	-	-	6 667
4247	Painting	143	5 072	2 564		8 817		-	16 597
4248	Earthmoving and dredging	-	1 053	999	5 089	1 217	13 385		21 742
4249	Special trades nec		4 445		5 790	2 579	5 222	-	18 037
42	Total special trade construction	690	27 782	17 533	47 991	22 974	42 793	15 448	175 210
41-42	Total construction	913	30 802	22 801	80 031	45 441	110 355	109 879	400 222

(a) Published for completeness, note high standard error.

TABLE 14 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE ADDED BY TURNOVER SIZE FOR ESTABLISHMENTS OPERATING FOR THE WHOLE YEAR BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Less than $10000	$10000 but less than $50000	$50000 but less than $100000	$100000 but less than $500000	$500000 but less than $1000000	$1000000 but less than $5000000	$5000000 and over	Total
4111	House construction	74.4	44.6	29.6	16.7	32.2	13.7	-	6.5
4112	Residential building construction nec	92.6	64.8	-	67.6	42.4	11.2	-	33.7
4113	Non-residential building construction	-	60.1	26.1	22.0	52.1	2.6	-	6.0
411	Total building construction	57.3	31.0	28.9	14.4	26.2	6.8	-	4.3
4121	Road and bridge construction	-	14.8	23.2	6.8	11.3	1.1	-	1.4
4122	Non-building construction nec	85.0	29.4	15.5	23.0	4.6	-	-	1.8
412	Total non-building construction	85.0	20.9	12.9	14.5	5.4	0.5	-	1.4
41	Total general construction	55.9	26.4	23.2	11.1	18.7	4.4	-	2.6
4231	Concreting	65.9	16.3	14.1	5.5	8.9	7.2	-	3.2
4232	Bricklaying	28.1	5.8	21.8	29.9	31.1	-	-	5.6
4233	Roof tiling	9.8		-					2.1
4234	Floor and wall tiling	24.0	6.2	36.6	11.0		-	-	4.7
4241	Structural steel erection	-	21.6	15.2	13.1	6.0		-	4.4
4242	Plumbing	48.6	13.2	13.1	8.4	1.7	-	-	3.4
4243	Electrical work	326.1	11.1	15.6	4.7	1.4	-		1.5
4244	Heating and airconditioning	83.1	22.2	12.9	9.7	-	-	-	1.0
4245	Plastering and plaster fixing	33.2	6.4	16.8	9.7	-		-	3.8
4246	Carpentry	42.8	7.7	16.6	18.0	19.5	-	-	7.0
4247	Painting	44.3	7.3	18.2		1.0		-	3.0
4248	Earthmoving and dredging	-	15.3	20.5	8.9	-	-		2.0
4249	Special trades nec		11.5		8.8	7.8	-	-	3.5
42	Total special trade construction	15.7	2.8	5.7	2.8	2.4	0.3	-	0.9
41-42	Total construction	18.1	3.5	6.9	4.7	9.3	2.7	-	1.5

TABLE 15 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY TYPE OF CONSTRUCTION BY INDUSTRY CLASS, WESTERN AUSTRALIA 1978-1979

$'000

ASIC Code	Industry class	Trade contracting		General construction			Capital work done for own use, rental or lease (a)
		Prime contract	Sub-contract	Prime contract	Sub-contract	Speculative construction	
4111	House construction	295 (b)	656	294 101	2 084	21 413	2 019
4112	Residential building construction nec	-	3 (b)	25 099	193 (b)	10 188	1 024 (b)
4113	Non-residential building construction	26	133	272 501	5 592	2 798	2 179 (b)
411	Total building construction	321 (b)	791	591 701	7 869	34 400	5 221
4121	Road and bridge construction	2 240	742	47 725	15 788	-	17
4122	Non-building construction nec	411	51	179 396	25 987	414	104
412	Total non-building construction	2 651	793	227 120	41 774	414	122
41	Total general construction	2 972	1 584	818 821	49 643	34 813	5 343
4231	Concreting	8 048	19 886	-	-	277	-
4232	Bricklaying	1 840	12 225	-	35	39 (b)	54 (b)
4233	Roof tiling	333	9 350	8 (b)	-	-	-
4234	Floor and wall tiling	559	4 605	3 (b)	25 (b)	-	-
4241	Structural steel erection	3 499	4 750	-	-	-	-
4242	Plumbing	17 451	43 383	138	-	206	27 (b)
4243	Electrical work	27 805	49 427	208	81 (b)	31 (b)	8 (b)
4244	Heating and airconditioning	14 022	19 883	-	-	-	23
4245	Plastering and plaster fixing	1 004	15 111	-	-	-	7 (b)
4246	Carpentry	3 294	8 925	-	-	42 (b)	14 (b)
4247	Painting	17 260	11 714	36 (b)	-	22	25
4248	Earthmoving and dredging	19 567	24 284	326	4	-	24
4249	Special trades nec	26 439	17 960	18	-	-	82
42	Total special trade construction	141 121	241 503	737	146	618	263
41-42	Total construction	144 093	243 086	819 558	49 790	35 431	5 606

(a) Only current account expenses associated with this work are included.

(b) Published for completeness, note high standard error.

TABLE 15 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY TYPE OF CONSTRUCTION BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Trade contracting		General construction			Capital work done for own use, rental or lease (a)
		Prime contract	Sub-contract	Prime contract	Sub-contract	Speculative construction	
4111	House construction	59.2	42.3	7.3	28.6	9.6	32.6
4112	Residential building construction nec	-	78.6	18.0	95.1	31.2	70.0
4113	Non-residential building construction	3.4	-	4.8	7.9	24.4	68.2
411	Total building construction	54.4	35.1	4.1	9.7	11.0	33.6
4121	Road and bridge construction	0.9	0.2	1.9	2.2	-	30.8
4122	Non-building construction nec	2.9	29.4	1.4	1.1	-	1.7
412	Total non-building construction	0.9	1.9	1.1	1.1	-	4.6
41	Total general construction	5.9	17.5	2.9	1.8	10.8	32.8
4231	Concreting	6.0	5.1	-	-	48.5	-
4232	Bricklaying	25.1	5.8	-	12.9	81.8	86.7
4233	Roof tiling	-	0.8	71.5	-	-	-
4234	Floor and wall tiling	9.6	6.0	63.4	63.4	-	-
4241	Structural steel erection	5.4	8.2	-	-	-	-
4242	Plumbing	5.3	4.9	10.1	-	1.9	52.9
4243	Electrical work	3.3	1.8	-	78.1	78.1	55.3
4244	Heating and airconditioning	1.6	0.9	-	-	-	3.3
4245	Plastering and plaster fixing	13.1	4.2	-	-	-	71.7
4246	Carpentry	23.6	4.6	-	-	66.9	86.6
4247	Painting	4.0	4.9	63.8	-	23.6	23.6
4248	Earthmoving and dredging	4.2	2.2	2.2	-	-	41.3
4249	Special trades nec	7.1	4.0	-	-	-	1.4
42	Total special trade construction	1.9	1.2	3.8	44.9	23.2	20.0
41-42	Total construction	1.9	1.2	2.9	1.8	10.7	31.3

(a) Only current account expenses associated with this work are included.

TABLE 16 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - NUMBER OF ESTABLISHMENTS INVOLVED AND VALUE OF CONSTRUCTION WORK DONE ON PRIME CONTRACT BY OWNERSHIP OF PROJECT BY INDUSTRY CLASS,

WESTERN AUSTRALIA, 1978-79

ASIC Code	Industry class	Category of ownership: Public sector — Establishments involved No	Public sector — Value $'000	Private sector — Establishments involved No	Private sector — Value $'000	Total — Value $'000
4111	House construction	223	29 981	891	264 416	294 396
4112	Residential building construction nec	52	3 370 (a)	175	21 729	25 099
4113	Non-residential building construction	142	102 067	261	170 460	272 527
411	Total building construction	417	135 418	1 328	456 604	592 022
4121	Road and bridge construction	50	19 869	60	30 095	49 964
4122	Non-building construction nec	57	46 639	147	133 168	179 807
412	Total non-building construction	107	66 507	207	163 264	229 771
41	Total general construction	524	201 925	1 535	619 868	821 793
4231	Concreting	26	3 426	97	4 622	8 048
4232	Bricklaying	13	1 005	132	836	1 840
4233	Roof tiling	-	-	7	341	341
4234	Floor and wall tiling	6	43	66	519	562
4241	Structural steel erection	6	523	14	2 975	3 499
4242	Plumbing	119	3 582	329	14 007	17 589
4243	Electrical work	174	5 349	352	22 664	28 013
4244	Heating and airconditioning	24	1 140	57	12 882	14 022
4245	Plastering and plaster fixing	13	61	105	943	1 004
4246	Carpentry	37	338	149	2 956	3 294
4247	Painting	88	1 953	375	15 342	17 295
4248	Earthmoving and dredging	100	7 299	111	12 594	19 893
4249	Special trades nec	108	5 690	277	20 767	26 457
42	Total special trade construction	714	30 409	2 071	111 448	141 858
41-42	Total construction	1 239	232 334	3 606	731 316	963 651

(a) Published for completeness, note high standard error.

TABLE 16 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - NUMBER OF ESTABLISHMENTS INVOLVED AND VALUE OF CONSTRUCTION WORK DONE ON PRIME CONTRACT BY OWNERSHIP OF PROJECT BY INDUSTRY CLASS, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

ASIC Code	Industry class	Category of ownership: Public sector: Establishments involved	Public sector: Value	Private sector: Establishments involved	Private sector: Value	Total: Value
4111	House construction	19.2	20.6	8.4	7.9	7.3
4112	Residential building construction nec	49.5	70.1	24.8	17.5	18.0
4113	Non-residential building construction	10.5	5.3	16.7	6.7	4.8
411	Total building construction	12.0	6.2	5.7	5.0	4.1
4121	Road and bridge construction	4.1	1.4	5.7	2.7	1.8
4122	Non-building construction nec	9.1	0.5	8.9	1.8	1.4
412	Total non-building construction	5.2	0.5	6.4	1.6	1.1
41	Total general construction	9.6	4.2	5.0	3.7	2.9
4231	Concreting	16.8	7.8	9.3	8.6	6.0
4232	Bricklaying	33.6	39.9	14.4	27.7	25.1
4233	Roof tiling	-	-	20.8	1.8	1.8
4234	Floor and wall tiling	36.3	19.3	9.4	9.9	9.5
4241	Structural steel erection	21.6	24.0	14.5	4.3	5.4
4242	Plumbing	13.4	8.4	6.7	6.3	5.3
4243	Electrical work	10.1	6.2	4.5	3.5	3.2
4244	Heating and airconditioning	10.9	3.8	9.0	1.7	1.6
4245	Plastering and plaster fixing	28.8	27.3	8.7	13.9	13.1
4246	Carpentry	25.1	9.2	10.9	25.5	23.6
4247	Painting	15.6	18.6	5.7	3.6	4.0
4248	Earthmoving and dredging	11.2	8.9	10.1	3.4	4.2
4249	Special trades nec	13.3	12.2	6.5	8.2	7.1
42	Total special trade construction	4.9	4.0	2.3	2.1	1.9
41-42	Total construction	4.9	3.7	2.4	3.2	2.5

TABLE 17 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY TYPE OF CONSTRUCTION BY COMMODITY, WESTERN AUSTRALIA, 1978-79

$'000

COMMODITY DESCRIPTION	Trade contracting		General construction			Capital work done for own use rental or lease (a)
	Prime contract	Sub-contract	Prime contract	Sub-contract	Speculative construction	
BUILDING -						
HOUSES -						
New	6 145	77 287	254 663	1 209	20 823	803
Alterations, additions and improvements	9 374	7 115	29 642	827	-	36(b)
Repairs and maintenance	20 366	2 865	6 890	80	-	20
OTHER RESIDENTIAL BUILDINGS -						
New	637	10 274	35 303	45	13 250	1 885
Alterations, additions and improvements	689	1 471	2 603(b)	-	-	-
Repairs and maintenance	3 312	362	708	-	-	-
NON-RESIDENTIAL BUILDINGS -						
New work, alterations, additions and improvements to -						
Commercial buildings	7 867	42 775	98 546	3 217	510	1 811(b)
Industrial buildings	7 747	30 759	67 266	718	63	639
Other buildings	6 622	26 655	92 814	463	-	79(b)
Repairs and maintenance	13 713	1 678	7 002	100	-	-
TOTAL BUILDING	76 470	201 219	595 437	6 658	34 645	5 605
NON-BUILDING CONSTRUCTION -						
NEW WORK, ALTERATIONS AND ADDITIONS TO -						
Roads, highways and related structures	8 559	12 272	42 575	12 308	535	-
Bridges	463	88	5 550	368	-	-
Railways and tramways	812	42	5 731	56	-	-
Harbours	1 715	355	6 807	34	-	-
Dams, water supply pipelines	2 905	2 069	16 494	118	-	-
Electric power transmission lines	1 061	524	6 572	-	-	-
Electric power distribution lines	322	1 154	-	-	37	-
Water distribution systems	2 113	193	1 008	3	70	-
Sewer systems	2 824	5 549	12 110	908	144	-
Pipelines nec	377	216	3 199	1 188	-	-
Street and highway lighting	231	-	-	-	-	-
Heavy electrical generating plant and equipment	180(b)	2 001	16 088	713	-	-
Heavy industrial plant and equipment nec	8 671	12 009	38 876	11 761	-	-
Telecommunications towers, lines and structures	59	54(b)	72	45	-	-
Other	28 915	4 718	29 668	2 948	-	-
REPAIR AND MAINTENANCE TO -						
Roads, highways and related structures	854	99	2 958	3 245	-	-
Bridges	2	3	595	151	-	-
Other	7 166	463	36 012	9 287	-	-
TOTAL NON-BUILDING CONSTRUCTION	67 211	41 810	224 115	43 131	786	-
DEMOLITION	412	57	5	-	-	-
TOTAL CONSTRUCTION WORK DONE	144 093	243 086	819 558	49 790	35 431	5 606

(a) Only current account expenses associated with this work are included.

(b) Published for completeness, note high standard error.

TABLE 17 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY TYPE OF CONSTRUCTION BY COMMODITY, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

COMMODITY DESCRIPTION	Trade contracting		General construction			Capital work done for own use rental or lease (a)
	Prime contract	Sub-contract	Prime contract	Sub-contract	Speculative construction	
BUILDING -						
HOUSES -						
New	7.2	2.9	7.6	38.4	8.8	1.5
Alterations, additions and improvements	6.2	5.6	11.5	29.8	-	74.1
Repairs and maintenance	4.3	21.4	25.0	50.2	-	-
OTHER RESIDENTIAL BUILDINGS -						
New	8.2	4.3	11.0	18.1	25.1	49.3
Alterations, additions and improvements	7.8	5.4	57.0	-	-	-
Repairs and maintenance	5.4	33.8	11.6	-	-	-
NON-RESIDENTIAL BUILDINGS -						
New work, alterations, additions and improvements to -						
Commercial buildings	8.2	1.9	2.7	4.4	-	82.0
Industrial buildings	5.8	1.7	3.5	4.2	20.9	10.8
Other buildings	7.7	2.0	6.4	14.9	-	78.2
Repairs and maintenance	4.2	6.0	7.5	44.7	-	-
TOTAL BUILDING	2.3	1.4	4.0	8.7	10.9	31.3
NON-BUILDING CONSTRUCTION -						
NEW WORK, ALTERATIONS AND ADDITIONS TO -						
Roads, highways and related structures	9.4	2.1	2.1	2.8	-	-
Bridges	3.5	20.9	0.2	-	-	-
Railways and tramways	5.8	44.9	0.1	-	-	-
Harbours	1.6	3.8	-	-	-	-
Dams, water supply pipelines	12.6	6.3	0.9	12.6	-	-
Electric power transmission lines	13.1	28.0	-	-	-	-
Electric power distribution lines	43.3	12.1	-	-	-	-
Water distribution systems	22.2	4.9	11.2	49.7	-	-
Sewer systems	13.5	7.8	0.9	9.5	-	-
Pipelines nec	38.2	6.4	11.4	-	-	-
Street and highway lighting	9.3	-	-	-	-	-
Heavy electrical generating plant and equipment	76.2	6.9	-	-	-	-
Heavy industrial plant and equipment nec	1.6	2.6	-	1.8	-	-
Telecommunications towers, lines and structures	32.2	55.8	19.0	49.7	-	-
Other	6.2	10.2	8.0	18.4	-	-
REPAIR AND MAINTENANCE TO -						
Roads, highways and related structures	3.9	37.1	1.9	0.4	-	-
Bridges	-	-	-	-	-	-
Other	3.8	8.3	1.7	0.1	-	-
TOTAL NON-BUILDING CONSTRUCTION	3.2	2.2	1.2	1.6	-	-
DEMOLITION	4.9	38.7	44.2	-	-	-
TOTAL CONSTRUCTION WORK DONE	1.9	1.2	2.9	1.8	10.7	31.3

(a) Only current account expenses associated with this work are included.

TABLE 18 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY INDUSTRY CLASS BY COMMODITY, WESTERN AUSTRALIA, 1978-79

$'000

COMMODITY DESCRIPTION	Building construction: House construction 4111	Building construction: Residential building construction nec 4112	Building construction: Non-residential building construction 4113	Building construction: Total 411	Non-building construction: Road and bridge construction 4121	Non-building construction: Non-building construction nec 4122	Non-building construction: Total 412	Total general construction 41
BUILDING -								
HOUSES -								
New	259 731	4 628	13 206	277 565	16	-	17	277 581
Alterations, additions and improvements	29 415	520(a)	4 779	30 713	2	28	30	30 743
Repairs and maintenance	6 356	66(a)	592	7 014	1	135	136	7 150
OTHER RESIDENTIAL BUILDINGS -								
New	9 538	24 354	16 455	50 346	-	-	-	50 346
Alterations, additions and improvements	508(a)	1 580(a)	516	2 603(a)	-	8	8	2 612(a)
Repairs and maintenance	110	87(a)	512	708	1	-	1	709
NON-RESIDENTIAL BUILDINGS -								
New work, alterations, additions and improvements to -								
Commercial buildings	6 282	2 451	92 952	101 685	2	2 305	2 307	103 992
Industrial buildings	3 616	959	62 948	67 524	327	1 116	1 443	68 967
Other buildings	6 584	1 761(a)	84 486	92 831	12	641	653	93 483
Repairs and maintenance	1 045	102(a)	3 713	4 898	51	2 205	2 256	7 155
TOTAL BUILDING	319 222	36 506	280 158	635 887	413	6 438	6 852	642 738
NON-BUILDING CONSTRUCTION -								
NEW WORK, ALTERATIONS AND ADDITIONS TO -								
Roads, highways and related structures	121	-	174	295	52 433	3 254	55 687	55 982
Bridges	15(a)	-	673	687	2 674	2 957	5 631	6 318
Railways and tramways	-	-	219	219	688	5 562	6 250	6 470
Harbours	-	-	34	34	-	6 995	6 995	7 029
Dams, water supply pipelines	-	-	142	142	605	15 924	16 529	16 671
Electric power transmission lines	-	-	50	50	50	6 314	6 364	6 414
Electric power distribution lines	37	-	-	37	-	-	-	37
Water distribution systems	90	-	125	215	23	845	868	1 083
Sewer systems	364	-	1 032	1 396	2 378	9 616	11 994	13 390
Pipelines nec	-	-	-	-	74	4 314	4 388	4 388
Street and highway lighting	-	-	-	-	10	-	10	10
Heavy electrical generating plant and equipment	-	-	56	56	-	16 746	16 746	16 802
Heavy industrial plant and equipment nec	-	-	-	-	-	50 637	50 637	50 637
Telecommunications towers, lines and structures	-	-	-	-	-	117	117	117
Other	719 (a)	-	326	1 045	515	31 297	31 812	32 857
REPAIR AND MAINTENANCE TO -								
Roads, highways and related structures	-	-	100	100	6 204	66	6 271	6 371
Bridges	-	-	-	-	416	127	543	543
Other	-	-	120	120	27	45 152	45 179	45 299
TOTAL NON-BUILDING CONSTRUCTION	1 346	-	3 049	4 395	66 098	199 924	266 022	270 416
DEMOLITION	-	-	21	21	-	-	-	21
TOTAL CONSTRUCTION WORK DONE	320 568	36 506	283 229	640 303	66 511	206 363	272 874	913 176

(a) Published for completeness, note high standard error.

TABLE 18 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY INDUSTRY CLASS BY COMMODITY, WESTERN AUSTRALIA, 1978-1979 - continued

$'000

COMMODITY DESCRIPTION	Special trade construction						
	Concreting 4231	Bricklaying 4232	Roof tiling 4233	Floor and wall tiling 4234	Structural steel erection 4241	Plumbing 4242	Electrical work 4243
BUILDING							
HOUSES -							
New	11 218	6 655	8 407	2 626	120	21 025	7 157
Alterations, additions and improvements	517	1 295	364	519	90 (a)	2 964	2 859
Repairs and maintenance	11	18	266	65	74 (a)	8 655	3 525
OTHER RESIDENTIAL BUILDINGS -							
New	511	1 281	437	448	152	2 890	1 351
Alterations, additions and improvements	5	29 (a)	202	34	-	1 003	222
Repairs and maintenance	2	- (a)	-	1 (a)	-	1 148	653
NON-RESIDENTIAL BUILDINGS -							
New work, alterations, additions and improvements to -							
Commercial buildings	3 391	1 481	2	587	539	6 175	11 985
Industrial buildings	3 163	955	- (a)	473	1 548	5 612	11 668
Other buildings	1 834	1 639	5	351	798	5 598	10 674
Repairs and maintenance	142	26 (a)	-	59	108	1 909	5 614
TOTAL BUILDING	20 791	13 302	9 683	5 163	3 427	56 778	55 707
NON-BUILDING CONSTRUCTION -							
NEW WORK, ALTERATIONS AND ADDITIONS TO -							
Roads, highways and related structures	4 521	-	-	1 (a)	29	-	-
Bridges	1	-	-	-	23 (a)	-	-
Railways and tramways	32	-	-	-	-	-	-
Harbours	-	-	-	-	60	-	254
Dams, water supply pipelines	81	-	-	-	-	411	-
Electric power transmission lines	-	-	-	-	866	-	871
Electric power distribution lines	2	-	-	-	-	1 (a)	1 429
Water distribution systems	-	-	-	-	-	149	97
Sewer systems	88	107 (a)	-	-	-	3 708	-
Pipelines nec	-	-	-	-	216	-	-
Street and highway lighting	-	-	-	-	-	-	221
Heavy electrical generating plant and equipment	-	-	-	-	-	-	1 872
Heavy industrial plant and equipment nec	549	102	-	-	1 862 (a)	85 (a)	15 234
Telecommunications towers, lines and structures	-	-	-	-	54	-	-
Other	1 749	501	8 (a)	26	883	27	1 127
REPAIR AND MAINTENANCE TO -							
Roads, highways and related structures	31	-	-	-	-	-	-
Bridges	-	-	-	-	-	-	-
Other	563	189	-	-	829	46 (a)	747
TOTAL NON-BUILDING CONSTRUCTION	7 417	899	8 (a)	29	4 822	4 426	21 853
DEMOLITION	3	-	-	-	-	-	-
TOTAL CONSTRUCTION WORK DONE	28 211	14 195	9 691	5 192	8 249	61 201	77 560

(a) Published for completeness, note high standard error.

TABLE 10 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY INDUSTRY CLASS BY COMMODITY, WESTERN AUSTRALIA, 1978-79 - continued

$'000

COMMODITY DESCRIPTION	Special trade construction							Total construction 41-42
	Heating and airconditioning 4244	Plastering and plaster fixing 4245	Carpentry 4246	Painting 4247	Earthmoving and dredging 4248	Special trades n.e.c. 4249	Total 42	
BUILDING -								
HOUSES -								
New	448	8 894	4 383	5 529	4 938	1 948	83 348	360 929
Alterations, additions and improvements	2 722	1 167	1 199	1 095	8	1 784	16 583	47 326
Repairs and maintenance	1 438	246	504	7 011	-	1 259	2 3071	30 220
OTHER RESIDENTIAL BUILDINGS -								
New	184	1 005	848	1 105	594	244	11 047	61 393
Alterations, additions and improvements	446	16	5 (a)	155	-	45 (a)	2 151	4 763
Repairs and maintenance	477	15	8 (a)	1 361	-	7	3 672	4 382
NON-RESIDENTIAL BUILDINGS -								
New work, alterations, additions and improvements to -								
Commercial buildings	8 634	2 516	3 152	2 566	1 216	8 551	50 735	154 727
Industrial buildings	8 372	1 051	655	382	216	4 190	38 224	107 191
Other buildings	6 894	1 150	1 408	1 179	575	1 652	33 128	126 611
Repairs and maintenance	3 669	70	75	3 058	5	603	15 339	22 494
TOTAL BUILDING	32 884	16 087	12 216	23 421	7 553	20 285	277 297	920 036
NON-BUILDING CONSTRUCTION -								
NEW WORK, ALTERATIONS AND ADDITIONS TO -								
Roads, highways and related structures	-	13	-	15 (a)	14 905	782 (a)	20 266	76 248
Bridges	-	-	6 (a)	-	67	55	152	6 470
Railways and tramways	-	-	-	-	112	27 (a)	171	6 641
Harbours	-	-	-	-	1 450	158	1 882	8 910
Dams, water supply pipelines	-	-	-	-	3 865	578	4 935	21 606
Electric power transmission lines	-	-	-	-	-	5 (a)	1 742	8 157
Electric power distribution lines	-	-	-	-	-	24	1 456	1 493
Water distribution systems	-	-	-	-	556	1 501	2 304	3 387
Sewer systems	-	-	2 (a)	-	3 989	258 (a)	8 145	21 534
Pipelines nec	-	-	-	-	335	44	595	4 965
Street and highway lighting	-	-	-	-	-	-	221	231
Heavy electrical generating plant and equipment	-	-	-	-	-	309	2 181	18 983
Heavy industrial plant and equipment nec	-	-	-	2 509	-	341	20 660	71 316
Telecommunications towers, lines and structures	-	-	-	-	-	59	94	211
Other	1 044	23	50	597	10 124	17 253	33 392	66 249
REPAIR AND MAINTENANCE TO -								
Roads, highways and related structures	-	-	-	26 (a)	703	25	786	7 157
Bridges	-	-	-	-	-	5	5	548
Other	-	-	-	2 489	514	2 451	7 429	52 928
TOTAL NON-BUILDING CONSTRUCTION	1 044	35	58	5 635	36 600	23 816	106 637	377 054
DEMOLITION	-	-	-	-	52	398	452	474
TOTAL CONSTRUCTION WORK DONE	33 927	16 122	12 275	29 056	44 205	44 499	384 387	1 297 563

(a) Published for completeness, note high standard error.

TABLE 18 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY INDUSTRY CLASS BY COMMODITY, WESTERN AUSTRALIA, 1978-79

STANDARD ERROR PERCENT

COMMODITY DESCRIPTION	Building construction				Non-building construction			
	House construction 4111	Residential building construction nec 4112	Non-residential building construction 4113	Total 411	Road and bridge construction 4121	Non-building construction nec 4122	Total 412	Total general construction 41
BUILDING -								
HOUSES -								
New	7.8	31.6	20.6	7.5	37.3	45.7	36.3	7.3
Alterations, additions and improvements	12.6	65.3	31.9	11.2	35.4	28.4	26.4	11.2
Repairs and maintenance	27.1	79.9	11.5	24.6	35.4	-	0.3	24.1
OTHER RESIDENTIAL BUILDINGS -								
New	19.7	18.6	17.1	10.9	-	-	-	10.9
Alterations, additions and improvements	80.7	90.7	21.9	57.0	-	40.3	40.3	56.8
Repairs and maintenance	23.2	90.1	7.5	11.6	35.4	-	35.4	11.6
NON-RESIDENTIAL BUILDINGS -								
New work, alterations, additions and improvements to -								
Commercial buildings	26.3	17.2	2.7	3.0	35.4	-	0.1	2.9
Industrial buildings	22.3	22.5	3.3	3.3	1.7	0.2	0.4	3.2
Other buildings	34.8	54.2	6.5	6.4	6.7	-	0.1	6.4
Repairs and maintenance	28.2	84.7	11.8	10.8	2.4	-	0.1	7.4
TOTAL BUILDING	7.1	17.5	4.8	4.0	2.3	0.2	0.2	3.9
NON-BUILDING CONSTRUCTION -								
NEW WORK, ALTERATIONS AND ADDITIONS TO -								
Roads, highways and related structures	-	-	-	-	1.7	1.2	1.6	1.5
Bridges	90.6	-	-	1.9	-	-	-	0.2
Railways and tramways	-	-	2.8	2.8	0.3	-	0.1	0.1
Harbours	-	-	-	-	-	-	-	-
Dams, water supply pipelines	-	-	-	-	2.4	0.9	0.9	0.9
Electric power transmission lines	-	-	-	-	-	-	-	-
Electric power distribution lines	-	-	-	-	-	-	-	-
Water distribution systems	-	-	-	-	8.9	13.5	13.2	10.6
Sewer systems	-	-	-	-	0.4	1.5	1.2	1.1
Pipelines nec	-	-	-	-	-	8.5	8.3	8.3
Street and highway lighting	-	-	-	-	-	-	-	-
Heavy electrical generating plant and equipment	-	-	-	-	-	-	-	-
Heavy industrial plant and equipment nec	-	-	-	-	-	0.4	0.4	0.4
Telecommunications towers, lines and structures	-	-	-	-	-	22.8	22.8	22.8
Other	68.8	-	31.9	46.4	8.0	7.7	7.6	7.5
REPAIR AND MAINTENANCE TO -								
Roads, highways and related structures	-	-	-	-	0.9	41.9	1.0	1.0
Bridges	-	-	-	-	-	-	-	-
Other	-	-	-	-	22.9	1.4	1.4	1.4
TOTAL NON-BUILDING CONSTRUCTION	36.8	-	5.4	11.5	1.3	1.3	1.0	1.0
DEMOLITION	-	-	10.2	10.2	-	-	-	10.2
TOTAL CONSTRUCTION WORK DONE	7.1	17.5	4.7	3.9	1.3	1.2	1.0	2.8

TABLE 16 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY INDUSTRY CLASS BY COMMODITY, WESTERN AUSTRALIA, 1978-79 - continued

STANDARD ERROR PERCENT

COMMODITY DESCRIPTION	Special trade construction						
	Concreting 4231	Bricklaying 4232	Roof tiling 4233	Floor and wall tiling 4234	Structural steel erection 4241	Plumbing 4242	Electrical work 4243
BUILDING -							
HOUSES -							
New	7.0	7.0	0.7	6.5	24.2	8.8	7.0
Alterations, additions and improvements	16.0	24.3	3.0	10.1	50.1	13.1	10.2
Repairs and maintenance	28.1	39.0	-	30.7	58.3	9.2	6.8
OTHER RESIDENTIAL BUILDINGS -							
New	10.9	15.7	7.0	15.3	28.9	7.9	11.8
Alterations, additions and improvements	-	56.5	-	42.0	-	1.5	23.2
Repairs and maintenance	-	81.8	-	71.3	-	12.7	11.5
NON-RESIDENTIAL BUILDINGS -							
New work, alterations, additions and improvements to -							
Commercial buildings	5.8	14.1	-	10.7	11.4	10.2	3.2
Industrial buildings	10.7	17.8	71.5	14.2	9.6	5.5	2.8
Other buildings	6.1	26.7	9.4	14.8	11.7	6.6	3.0
Repairs and maintenance	9.6	97.6	-	22.4	30.0	18.9	6.7
TOTAL BUILDING	5.2	6.4	0.8	5.8	6.7	3.9	2.0
NON-BUILDING CONSTRUCTION -							
NEW WORK, ALTERATIONS AND ADDITIONS TO -							
Roads, highways and related structures	7.1	-	-	78.6	33.8	-	-
Bridges	-	-	-	-	52.2	-	-
Railways and tramways	-	-	-	-	-	-	-
Harbours	-	-	-	-	-	-	-
Dams, water supply pipelines	-	-	-	-	-	0.3	-
Electric power transmission lines	-	-	-	-	32.5	-	0.9
Electric power distribution lines	-	-	-	-	-	75.3	19.3
Water distribution systems	-	-	-	-	-	2.4	10.4
Sewer systems	-	80.6	-	-	-	12.8	-
Pipelines nec	-	-	-	-	6.4	-	-
Street and highway lighting	-	-	-	-	-	-	9.7
Heavy electrical generating plant and equipment	-	-	-	-	-	-	14.7
Heavy industrial plant and equipment nec	-	-	-	-	14.4	94.3	1.8
Telecommunications towers, lines and structures	-	-	-	-	55.8	-	-
Other	19.2	24.0	71.5	43.8	11.1	15.8	13.8
REPAIR AND MAINTENANCE TO -							
Roads, highways and related structures	37.3	-	-	-	-	-	-
Bridges	-	-	-	-	-	-	-
Other	49.7	-	-	-	9.0	75.3	6.9
TOTAL NON-BUILDING CONSTRUCTION	6.5	16.1	71.5	40.5	8.5	10.9	3.8
DEMOLITION	-	-	-	-	-	-	-
TOTAL CONSTRUCTION WORK DONE	3.8	6.0	0.8	5.8	5.5	3.6	1.7

TABLE 18 PRIVATE SECTOR CONSTRUCTION ESTABLISHMENTS - VALUE OF CONSTRUCTION WORK DONE BY INDUSTRY CLASS BY COMMODITY, WESTERN AUSTRALIA, 1978-79 - continued

STANDARD ERROR PERCENT

COMMODITY DESCRIPTION	Special trade construction							Total construction 41-42
	Heating and airconditioning 4244	Plastering and plaster fixing 4245	Carpentry 4246	Painting 4247	Earthmoving and dredging 4248	Special trades n.e.c. 4249	Total 42	
BUILDING -								
HOUSES -								
New	12.3	4.8	6.7	8.2	4.9	19.9	2.7	5.7
Alterations, additions and improvements	3.2	11.0	23.1	21.7	28.4	15.8	4.6	7.4
Repairs and maintenance	3.8	30.5	12.5	8.4	-	11.0	4.5	6.6
OTHER RESIDENTIAL BUILDINGS -								
New	12.3	20.6	13.1	10.9	2.2	14.0	4.0	9.0
Alterations, additions and improvements	-	14.2	56.9	25.3	-	52.3	3.4	31.2
Repairs and maintenance	-	24.6	59.8	10.2	-	43.1	5.9	5.3
NON-RESIDENTIAL BUILDINGS -								
New work, alterations, additions and improvements to -								
Commercial buildings	1.4	7.9	17.8	5.6	4.0	3.2	2.1	2.1
Industrial buildings	0.4	1.0	9.8	11.9	15.3	8.0	1.8	2.2
Other buildings	1.1	7.5	10.7	13.3	3.1	13.2	2.2	4.8
Repairs and maintenance	4.1	21.5	15.4	5.9	41.3	17.4	3.8	3.5
TOTAL BUILDING	1.0	3.9	6.9	3.0	3.5	4.1	1.2	2.7
NON-BUILDING CONSTRUCTION -								
NEW WORK, ALTERATIONS AND ADDITIONS TO -								
Roads, highways and related structures	-	40.0	-	83.9	3.9	72.7	4.3	1.6
Bridges	-	-	66.9	-	20.2	28.8	16.0	0.4
Railways and tramways	-	-	-	-	42.6	65.2	29.8	0.8
Harbours	-	-	-	-	1.2	17.1	1.6	0.3
Dams, water supply pipelines	-	-	-	-	8.7	32.3	7.8	1.9
Electric power transmission lines	-	-	-	-	-	65.2	16.2	3.5
Electric power distribution lines	-	-	-	-	-	32.4	19.0	18.5
Water distribution systems	-	-	-	-	6.9	31.2	20.4	14.3
Sewer systems	-	-	66.9	-	11.0	65.5	8.2	3.2
Pipelines n.e.c	-	-	-	-	42.8	29.6	24.3	7.9
Street and highway lighting	-	-	-	-	-	-	9.7	9.3
Heavy electrical generating plant and equipment	-	-	-	-	-	-	12.6	1.4
Heavy industrial plant and equipment n.e.c	-	-	-	-	-	5.7	1.9	0.6
Telecommunications towers, lines and structures	-	-	-	-	-	32.4	35.0	20.1
Other	4.3	1.8	29.5	2.1	4.0	10.3	5.6	4.7
REPAIR AND MAINTENANCE TO -								
Roads, highways and related structures	-	-	-	92.9	5.9	-	6.3	1.1
Bridges	-	-	-	-	-	-	-	-
Other	-	-	-	1.1	26.7	4.7	3.6	1.3
TOTAL NON-BUILDING CONSTRUCTION	4.3	14.7	28.4	1.0	2.9	7.9	2.3	1.0
DEMOLITION	-	-	-	-	20.0	9.9	9.0	8.6
TOTAL CONSTRUCTION WORK DONE	1.0	3.9	6.8	2.4	2.4	4.2	1.0	2.0

NOTES ON THE AUSTRALIAN STANDARD INDUSTRIAL CLASSIFICATION

DIVISION E : CONSTRUCTION

This Division includes all establishments mainly engaged in constructing buildings (including the on-site assembly and erection of prefabricated buildings), roads, railroads, aerodromes, irrigation projects, harbour or river works, water, gas, sewerage or stormwater drains or mains, electricity or other transmission lines or towers, pipelines, oil refineries or other specified civil engineering projects. In general, establishments mainly engaged in the repair of buildings or of other structures are also included in this Division, as are those engaged in the alteration or renovation of buildings, preparation of mine sites, demolition or excavation. Establishments mainly engaged in organising or managing these kinds of work (eg establishments mainly engaged in providing construction project management services) are included in this Division. However, establishments mainly engaged in providing architectural supervision or consultant engineering services are not included though they may be involved in supervising construction work; such establishments are included in Division I. Units of the defence forces, engaged in construction activities, are not included in this Division; the defence forces are included in Division J.

2 Establishments mainly engaged in certain specified installation activities such as installation of heating and air conditioning equipment, on-site assembly of boilers, installation of fire alarm systems, blinds and awnings, petrol bowsers or electrical wiring, or in special building or construction trades such as structural steel erection, carpentry, bricklaying, concreting, plumbing, painting, plastering, floor and wall tiling or roof tiling as well as the installation or laying of floor coverings such as carpets or linoleum, are included in this Division. However, not all establishments mainly engaged in installing goods are included in this Division, eg establishments mainly engaged in glazing are included in Class 4728 in Division F, those mainly engaged in installing household appliances (not requiring electrical or plumbing work in order to be installed) are included in Subdivision 48 in Division F, while establishments mainly engaged in installing lifts, escalators, factory assembled boilers, shop fronts or "built-in" furniture are included in Division C. The concepts and rules underlying the treatment of installation activities are discussed more fully in Chapter 5 of the Classification.

3 The titles of the industries distinguished separately in ASIC Division E are listed on the next page. Volume 1 of the 1978 edition of the ASIC (Catalogue No. 1201.0) should be consulted for detailed definitions of these industries.

Subdivision	Group	Class	Title
41			GENERAL CONSTRUCTION
	411		Building Construction
		4111	House Construction
		4112	Residential Building Construction nec
		4113	Non-Residential Building Construction
	412		Non-Building Construction
		4121	Road and Bridge Construction
		4122	Non-Building Construction nec
42			SPECIAL TRADE CONSTRUCTION
	423		Concreting, Bricklaying and Tiling Trades
		4231	Concreting
		4232	Bricklaying
		4233	Roof tiling
		4234	Floor and Wall Tiling
	424		Other Special Trades
		4241	Structural Steel Erection
		4242	Plumbing
		4243	Electrical Work
		4244	Heating and Air Conditioning
		4245	Plastering and Plaster Fixing
		4246	Carpentry
		4247	Painting
		4248	Earthmoving and Dredging
		4249	Special Trades nec