



Department of **Energy, Mines,  
Industry Regulation and Safety**

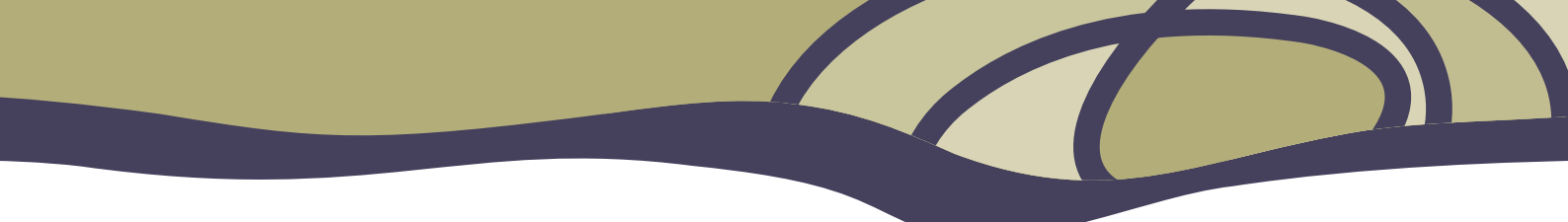
# Western Australia's principal resources projects 2023–24

December 2024



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## Western Australia's principal resources projects 2023–24

Western Australia's mining industry consisted of 138 predominantly higher value and export-oriented mining projects in 2023–24, up from 134 in 2022–23, and the highest number since the Department of Energy, Mines, Industry Regulation and Safety began tracking projects on this basis in 2014–15.

The State's mining industry also comprised hundreds of quarries and small mines in 2023–24 that largely produced the basic raw materials required for the local construction and agricultural industries. Such materials included clays, construction materials (aggregate, gravel, rock and sand), dimension stone, gypsum, limestone, limesand and spongolite. There were 12 principal producers of these materials.

In 2023–24, there were 16 major mineral processing operations that transformed bauxite into alumina; gold doré into gold bars; nickel ore into nickel concentrate (through toll treatment) and nickel concentrate into nickel matte, nickel powder, nickel briquettes, and nickel sulphate; rutile and synthetic rutile into titanium dioxide pigment; zircon into fused zirconia; silica sand into silicon metal; spodumene concentrate into lithium hydroxide; and rare earth concentrate into rare earth carbonate.

Western Australia's petroleum industry consisted of 20 projects that produced oil, gas and condensates from 50 fields in onshore and offshore areas of the State in 2023–24.

The tables below outline the details of the State's principal mining projects, principal producers of basic raw materials, principal mineral processing operations, and petroleum projects for 2023–24. Notable events for each project are also detailed.

A principal mining project is defined as a project that produced minerals valued at more than \$5 million (or more than 2,500 oz of gold) in a given financial year. Also included are mining projects on private land, for which production values are not required to be reported, where FTEs are greater than 50.

Mining projects are grouped according to the main commodity produced and sold from them.

For basic raw materials – such as sand, aggregate, rock, limestone, and limesand – only those producers with sales valued at more than \$5 million are captured. Basic raw materials projects are not specifically captured.

All major producing downstream mineral processing operations are captured.

A principal petroleum project is any project that produced LNG, condensate, oil, domestic gas and/or LPG, in onshore and offshore areas of the State.

## Principal mining projects

Company	Projects	Comments
<b>Bauxite</b>		
Alcoa	Huntly	Alcoa acquired Alumina Limited, its Joint Venture (JV) partner in Alcoa World Alumina and Chemicals (AWAC), which included its Western Australian assets, in August 2024. Alcoa previously held a 60 percent ownership interest in AWAC.
	Willowdale	
South32	Boddington	
<b>Coal</b>		
Griffin Coal Mining Company	Collie	
Yancoal	Premier	
<b>Copper-Lead-Zinc</b>		
29Metals	Golden Grove	
Aeris Resources	Jaguar	Aeris Resources announced in September 2023 that it was to suspend production at the Jaguar project and place it into care and maintenance.
Abra Mining	Abra	Abra Mining is owned by Galena Mining (60 per cent) and Toho Zinc Co. Ltd (40 per cent).
Sandfire Resources	DeGrussa	Mining was completed in October 2022 with processing operations continuing until the project's transition to care and maintenance in late June 2023. The final sales of stockpiles from the project occurred in the September quarter 2024.
<b>Gold</b>		
AngloGold Ashanti	Sunrise Dam	
	Tropicana	Tropicana is owned by a JV of AngloGold Ashanti (70 per cent) and Regis Resources (30 per cent).
Aurenne Group Mining	Mt Ida	New project commissioned in May 2023.
Auric Mining	Jeffrey's Find	New project. A first gold pour from the initial stage of mining occurred in July 2023, with sales completed in August 2023. A second stage commenced in March 2024, with sales in April 2024.
Barto Gold Mining	Southern Cross	Minjar Gold manages the Southern Cross project on behalf of Barton Gold.
Beacon Minerals	Jaurdi	
Bellevue Gold	Bellevue	New project, with the first gold poured in October 2023.

Company	Projects	Comments
Brightstar Resources	Menzies	New project. The maiden gold pour and mining campaign from the Selkirk open-pit cutback within the project occurred in March 2024. The Selkirk deposit is jointly owned by Brightstar Resources and Selkirk Mining.
	Second Fortune	Brightstar Resources completed the acquisition of Linden Gold Alliance, the previous owner of the Second Fortune gold project, in May 2024.
Catalyst Metals	Plutonic	
Calidus Resources	Warrawoona	Calidus Resources went into receivership in June 2024 with its Warrawoona gold mine placed into care and maintenance in July 2024.
Capricorn Metals	Karlawinda	
Evolution Mining	Mungari	Includes the Mungari and Kundana mines.
FMR Investments	Gordon - Sirdar	
Focus Minerals	Coolgardie	
Genesis Minerals	Gwalia	
Gold Fields	Agnew	
	Granny Smith	
	Gruyere	Gruyere is a JV of Gold Fields (50 per cent) and Gold Road Resources (50 per cent).
	St Ives	
Legacy Iron Ore	Mt Celia	New project. Mining commenced in November 2023.
Newmont Corporation	Boddington	
	Telfer	Newmont Corporation acquired Newcrest Mining, the previous owner of the Telfer project, in November 2023. Newmont Corporation subsequently entered into a binding agreement with Greatland Gold for the sale of the project in September 2024.
Northern Star Resources	Carosue Dam	Part of the Kalgoorlie production centre. Includes Carosue Dam and Porphyry.
	Fimiston / Mt Charlotte	Part of the Kalgoorlie production centre.
	Jundee	Part of the Yandal production centre.
	Kanowna Belle	Part of the Kalgoorlie production centre.
	Thunderbox	Part of the Yandal production centre. Includes Thunderbox and Bundara (Wonder).
	South Kalgoorlie	Part of the Kalgoorlie production centre.
	Bronzewing	Part of the Yandal production centre.
Norton Gold Fields	Paddington	Norton Gold Fields is a subsidiary of Zijin Mining. Includes Paddington and Binduli.
Ora Banda Mining	Davyhurst	
Pantoro	Norseman	

Company	Projects	Comments
Ramelius Resources	Edna May	Part of the Edna May production centre. Ramelius Resources announced in July 2024 plans to process existing stockpiles at Edna May and then place the operation into care and maintenance in 2025.
	Marda	Part of the Edna May production centre.
	Mt Magnet	Part of the Mt Magnet production centre.
	Penny	Part of the Mt Magnet production centre.
	Symes	Restarted project. Mining operations commenced and were completed at Symes within the 2023–24 financial year. The haulage of the stockpiled ore at Symes to Edna May will continue into 2024–25.
	Tampia	Part of the Edna May production centre. Mining operations were completed in May 2023 with the haulage of stockpiled ore from the project to Edna May for processing ongoing.
Regis Resources	Duketon	Includes Duketon and Garden Well.
Resource Mining	Goongarrie Lady	Restarted project. There were several mining campaigns across 2023–24.
Resources & Energy Group	East Menzies	Restarted project. There was a single period of sales for the March quarter 2024 related to the Maranoa deposit.
Vault Minerals	Darlot	Red 5 was the previous owner of Darlot. It merged with Silver Lake Resources to form Vault Minerals in June 2024.
	Deflector	Silver Lake Resources was the previous owner of Deflector. It merged with Red 5 to form Vault Minerals in June 2024.
	Mt Monger	Includes Mt Monger and Aldiss.
	King of the Hills	Red 5 was the previous owner of King of the Hills. It merged with Silver Lake Resources to form Vault Minerals in June 2024.
Westgold Resources	Murchison	Includes Murchison, Cue and Fortnum.
	Higginsville	Includes Higginsville, Spargos Reward, and Polar Bear. Karora Resources was the previous owner of Higginsville. It merged with Westgold Resources in August 2024 with the new entity trading as Westgold Resources.
Wiluna Mining	Wiluna	Wiluna Mining entered voluntary administration in July 2022 and was subsequently under the control of FTI Consulting. Despite the cessation of mining at the Wiluna project in December 2022, the ramp-up of the company's Wiltails retreatment circuit has continued to date with first ore processed in October 2023.

Company	Projects	Comments
<b>Iron ore</b>		
10M	Twin Peaks	Restarted project. The first shipment from the re-start took place in March 2024, under an ore purchase agreement between 10M and Fenix Resources. 10M was later taken into administration in June 2024.
Atlas Iron	Miralga Creek	Atlas Iron is a subsidiary of Hancock Prospecting.
	Mt Webber	
	Sanjiv Ridge	
BHP	Jimblebar	
	Mining Area C	
	Newman	Includes Newman East and Newman West.
	South Flank	
	Yandi	
Extension Hill	Mt Gibson	Restarted project. Extension Hill acquired the asset from Fenix Resources in November 2023, with first sales in the March quarter 2024.
CITIC Pacific Mining Management	Sino Iron	
Fenix Resources	Iron Ridge	
Fortescue	Chichester	Includes Cloudbreak and Christmas Creek.
	Iron Bridge	New project. It achieved its first shipment in September 2023. The project is a JV between Fortescue (69 per cent) and Formosa Steel (31 per cent).
	Western	Includes Solomon and Eliwana.
Gold Valley Wiluna West	Wiluna West	Gold Valley West Wiluna acquired the Wiluna West project from GWR Group in December 2023.
Hancock Prospecting	Roy Hill	A JV between Hancock Prospecting (70 per cent), Marubeni Corporation (15 per cent) and Pohrang Iron and Steel Co (12.5 per cent).
Hedland Mining	Poondano	Restarted project. It had a single period of sales in the March quarter 2024.
Karara Mining	Karara	Karara Mining is a subsidiary of Ansteel Group Corporation.
Kimberley Metals Group	Ridges	Restarted project.
Mineral Resources	Yilgarn	Includes Koolyanobbing and Parker Range. In June 2024, it was announced that the Yilgarn operations would transition to care and maintenance in early 2025.
	Onslow	
	Pilbara	Includes Iron Valley and Wonmunna. Mineral Resources acquired BCI Minerals' Iron Valley assets in July 2024. It has previously been the operator of the project.
Mount Gibson Iron	Koolan Island	
Newcam Minerals	Mt Gould	New project.

Company	Projects	Comments
Rio Tinto	Brockman 2 – Nammuldi – Silvergrass	
	Brockman 4	
	Greater Paraburdoo	Includes Channar, Paraburdoo and Eastern Range.
	Gudai-Darri	
	Hope Downs	Includes Hope Downs 1 and 4.
	Marandoo	
	Mount Tom Price	Includes Tom Price and Western Turner Syncline.
	Robe Valley	Includes Mesa A and Mesa J.
	West Angelas	
	Yandicoogina	
Sinosteel Midwest Corporation	Blue Hills	Operated by Kimberley Metals Group.
<b>Lithium</b>		
Arcadium Lithium	Mt Cattlin	The Mt Cattlin project is to be transitioned to care and maintenance by mid-2025. It was announced in October 2024 that Rio Tinto had entered into a transaction agreement to acquire Arcadium Lithium, owner of Mt Cattlin, with the transaction expected to close by mid-2025.
Covalent Lithium	Mt Holland	New project. It was officially opened in March 2024, with a first shipment of spodumene concentrate occurring in the same month. Covalent Lithium is a JV between Wesfarmers (50 per cent) and Sociedad Quimica Y Minera De Chile S.A. (SQM) (50 per cent).
Mineral Resources	Bald Hill	Mineral Resources acquired the Bald Hill project and its associated companies in November 2023. The project was transitioned into care and maintenance in early December 2024.
	Mount Marion	Mount Marion is owned under a JV between Mineral Resources (50 per cent) and Jiangxi Ganfeng Lithium Co., (50 per cent). The project is operated by Mineral Resources.
	Wodgina	Wodgina is owned by the MARBL JV with interests held by Mineral Resources (50 per cent) and Albemarle Corporation (50 per cent). The project is operated by Mineral Resources.
Pilbara Minerals	Pilgangoora	The Ngungaju plant, part of the Pilgangoora operations, was to be placed into care and maintenance from December 2024.
Talison Lithium	Greenbushes Lithium	Talison Lithium is a JV of Tianqi Lithium and IGO (51 per cent) and Albemarle Corporation (49 per cent).



Company	Projects	Comments
<b>Manganese</b>		
Consolidated Minerals	Woodie Woodie	
Element 25	Butcherbird	Mining ceased at Butcherbird with production shifting to processing stockpiles in late 2023. Processing operations were subsequently suspended in the March quarter 2024.
<b>Mineral sands</b>		
Australian Garnet	Lucky Bay	
Doral	Yalyalup mine and Picton dry separation plant	Doral is owned by Iwatani Corporation.
GMA Garnet	Keysbrook	
GMA Garnet	Port Gregory mine and Geraldton dry plant	
Iluka Resources	Mid West	Active operations at Mid West comprised the Cataby mine and the Narngulu mineral separation plant.
	South West	Active operations at South West comprised the two synthetic rutile kilns at North Capel (SR1 and SR2). SR1 was placed offline in October 2023 due to reduced demand. SR2 was also placed offline for planned maintenance in October 2023, recommencing operations in February 2024.
Image Resources	Boonanarring	The final sales from Boonanarring were completed in November 2023.
Kimberley Mineral Sands	Thunderbird	New project. The first ore was produced in October 2023 with a maiden shipment completed in January 2024.
Tronox	Cooljarloo mine and Chandala mineral separation plant	
	Wonnerup North mine and North Shore mineral separation plant	
Strandline Resources	Coburn	
<b>Nickel</b>		
BHP	Cliffs	BHP announced in July 2024 it will suspend its Nickel West operations from October 2024. It intends to review the decision by February 2027.
	Leinster	
	Mt Keith	
First Quantum Minerals	Ravensthorpe	Ravensthorpe was placed into care and maintenance in May 2024.

Company	Projects	Comments
IGO	Cosmos	Cosmos was transitioned into care and maintenance in June 2024. The commissioning of the processing plant at Cosmos was completed in the December quarter 2023, with the first concentrate produced in mid-November. The first shipment of concentrate was completed in April 2024.
	Forrestania	Forrestania was transitioned into care and maintenance in October 2024, with final shipments to be completed during the December quarter 2024.
	Nova	
Minara Resources	Murrin Murrin	Minara Resources is a subsidiary of Glencore Plc.
Mincor Resources	Kambalda	Mincor Resources is a wholly owned subsidiary of Wyloo Metals. Wyloo Metals put the Kambalda operations into care and maintenance from May 2024.
Panoramic Resources	Savannah	Panoramic Resources entered administration in December 2023. Administrators for Panoramic Resources subsequently put the Savannah project into care and maintenance in January 2024.
Westgold Resources	Beta Hunt	Both gold and nickel were produced from Beta Hunt during 2023–24 with nickel being the primary commodity. Karora Resources was the previous owner of Beta Hunt. It merged with Westgold Resources in August 2024 with the new entity trading as Westgold Resources.
<b>Rare Earths</b>		
Lynas Corporation	Mt Weld	
<b>Salt</b>		
Dampier Salt	Dampier	Dampier Salt is a JV of Rio Tinto (68 per cent), Marubeni Corporation (22 per cent) and Sojitz Corporation (10 per cent).
	Port Hedland	
Leichhardt Industrials	Lake MacLeod	Leichhardt Industrials acquired Dampier Salt's Lake MacLeod operation in December 2024.
Onslow Salt	Onslow	Onslow Salt is a subsidiary of Mitsui & Co.
Shark Bay Salt	Shark Bay	Shark Bay Salt is a subsidiary of Mitsui & Co.
WA Salt Koolyanobbing	Lake Deborah	

Company	Projects	Comments
<b>Silica sand</b>		
Hanson	Gnangara	
T T Sand	Mindijup	
Simcoa Operations	Moora	
<b>Talc</b>		
Imerys Talc Australia	Three Springs	
<b>Tantalum</b>		
Global Advanced Metals	Greenbushes Tantalum	
	Wodgina Tantalite	Project has been operating on and off since 2010. Sales value exceeded the threshold for list inclusion for the first time in 2023–24.

## Basic raw materials

Company
Aglime of Australia (Westdeen Holdings)
Boral
Brookdale Contractors
Cockburn Cement (Adbri)
Heidelberg Materials
Holcim
Kimberley Quarry
MLG Oz
Mobile Concreting Solutions
North West Quarries
Spinifex Crushing & Screening Services
Urban Resources

## Principal mineral processing operations

Company	Projects	Comments
<b>Alumina</b>		
Alcoa	Kwinana alumina refinery	The curtailment of production at the Kwinana refinery was announced in January 2024 and completed in June. Alcoa acquired Alumina Limited, its JV partner in AWAC which included its WA assets, in August 2024. Alcoa previously held a 60 percent ownership interest in AWAC.
	Pinjarra alumina refinery	
	Wagerup alumina refinery	
South32	Worsley alumina refinery	
<b>Gold</b>		
Gold Corporation	Perth Mint	
<b>Nickel</b>		
BHP	Kalgoorlie nickel smelter	BHP announced in July 2024 it will suspend its Nickel West operations from October 2024. It intends to review the decision by February 2027.
	Kambalda nickel concentrator	
	Kwinana nickel refinery	
Minara Resources	Murrin Murrin nickel refinery	Minara Resources is a subsidiary of Glencore plc.
<b>Mineral sands</b>		
Tronox	Bunbury pigment plant	The Bunbury pigment plant comprises facilities at Kemerton and Australind.
	Kwinana pigment plant	
Doral	Rockingham fused zirconia plant	Doral is owned by Iwatani Corporation.
<b>Rare earths</b>		
Lynas Rare Earths	Kalgoorlie cracking and leaching plant	The facility started producing mixed rare earth carbonate in the June quarter 2024.
<b>Silica sand</b>		
Simcoa	Kemerton silicon smelter	
<b>Lithium</b>		
Tianqi Lithium	Kwinana lithium hydroxide plant	The plant is owned by the Tianqi Lithium Energy Australia JV of Tianqi Lithium (51 per cent) and IGO (49 per cent).
Albemarle Corporation	Kemerton lithium hydroxide plant	

## Principal petroleum projects

Operator	Projects	Field	Type	Area	Comments
Beharra Springs Deep	Domestic gas	Onshore	Beharra Springs is owned by Beach Energy (50 per cent) and Mitsui & Co (50 per cent).	Onshore	Beharra Springs is owned by Beach Energy (50 per cent) and Mitsui & Co (50 per cent). The Redback and Redback South fields ceased production in 2021.
Ungani	Oil	Onshore		Onshore	Production from Ungani was temporarily suspended in July 2023 as a result of unseasonal rain in the Kimberley, and the closure of the temporary low-level river crossing at Fitzroy Crossing. They were suspended once again in August 2023 due to uncertainties regarding the Fitzroy River crossing.  Buru Energy assumed full ownership of the Ungani Oilfield on 30 September 2023, following agreement with Roc Oil for its 50 per cent interest in the asset.  Buru Energy subsequently entered into a farm-in agreement in June 2024 under which Sabre Energy could earn a 70 per cent interest in the Ungani project. However, this agreement was terminated in September 2024 after Sabre Energy was unable to meet its commitments under the agreement.
Chevron Corporation	Barrow Island	Barrow Island	Oil	Onshore	Barrow Island is owned by Chevron Corporation (57.14 per cent), Santos (28.57 per cent) and ExxonMobil (14.29 per cent).
	Gorgon	Jansz-lo, Gorgon	LNG, condensate and domestic gas	Offshore	Gorgon is owned by Chevron Corporation (47.33%), ExxonMobil (25%), Shell (25%), Osaka Gas (1.25%), MidOcean Energy (1%) and JERA (0.42%)
	Wheatstone	Brunello, Iago, Julimar, Wheatstone	LNG, condensate and domestic gas	Offshore	Wheatstone is a JV of Chevron Corporation (64.14 per cent), Kuwait Petroleum Corp (KPC) (13.4 per cent), Woodside (13 per cent), JOGMEC (3.36 per cent), Mitsubishi Corp (3.18 per cent), Kyushu Electric (1.46 per cent), Nippon Yusen Kabushiki Kaisha (NYK Line) (0.82 per cent) and JERA (0.64 per cent).  The Julimar and Brunello fields are owned by Woodside Energy (65 per cent) and Kuwait Foreign Petroleum Exploration Company (35 per cent). "
INPEX Corporation	Ichthys	Ichthys	Condensate	Offshore	Ichthys is a JV of INPEX Corporation (66.25%), Total (26%), CPC (Taiwan) (2.63%), Tokyo Gas (1.58%), Kansai Electric (1.2%), Osaka Gas (1.2%), JERA (0.73%) and Toho Gas (0.41%).  Only the condensate produced via a Floating, Production, Storage and Offloading installation is considered as a project for Western Australia. The gas fields are located off the coast of Western Australia but natural gas is transported to Darwin for processing and export.
Jadestone Energy	Stag	Stag	Oil	Offshore	
Mitsui & Co	Waitsia	Waitsia	Domestic gas	Onshore	Waitsia is a JV of Mitsui & Co (50 per cent) and Beach Energy (50 per cent).
Santos	Reindeer/Devil Creek	Reindeer	Domestic gas and condensate	Offshore	The Reindeer field is expected to reach its end of life in late 2024.
	Van Gogh	Coniston, Novara, Van Gogh	Oil	Offshore	Van Gogh is owned by Santos (52.5 per cent) and INPEX Corporation (47.5 per cent).
	Varanus Island	Greater East Spar (Spar, Halyard and East Spar), John Brookes, Spartan	Domestic gas and condensate	Onshore	
Shell	Prelude	Prelude	LNG, condensate, and LPG	Offshore	Prelude is jointly owned by Shell (67.5 per cent), INPEX Corporation (17.5 per cent), Korea Gas Corporation (10 per cent), and CPC Corporation (5 per cent).
Strike Energy	Walpyring	Walpyring	Domestic gas	Onshore	New project. The first gas from the Walpyring project was produced in September 2023.
Triangle Energy	Cliff Head	Cliff Head	Oil		Cliff Head had its final oil sales in August 2024 and is subject to a sale to Pilot Energy.
Vermilion Energy	Wandoo	Wandoo	Oil	Offshore	Wandoo restarted in September 2023 following a 10-month shutdown for inspection and repairs.

Operator	Projects	Field	Type	Area	Comments
Woodside Energy	Enfield/Vincent	Cimatti, Laverda Canyon, Norton over Laverda, Vincent	Oil	Offshore	Enfield/Vincent is owned by Woodside Energy (60 per cent) and Mitsui & Co (40 per cent).
	Macedon	Macedon	Domestic gas	Offshore	Macedon is owned by Woodside Energy (71.4 per cent) and Santos (28.6 per cent).
	North West Shelf	Cossack, Goodwyn, Hermes, Keast/Dockrell, Lady Nora/Pemberton, Lambert, Lambert Deep, North Rankin, Persephone, Perseus/Searipple, Rankin, Sculptor, Tidepole, Wanaea	LNG, condensate, oil, domestic gas, and LPG	Offshore	The North West Shelf project is owned by a range of JVs.
	Pluto	Pluto, Pyxis, and Xena	LNG, condensate, domestic gas, and LPG	Offshore	Pluto is owned by Woodside Energy (90 per cent), Kansai Electric (5 per cent) and MidOcean Energy (5 per cent).
	Pyrenees	Crosby, Moondyne, Ravensworth, Stickle, Tanglehead, Wild Bull	Oil	Offshore	Pyrenees is owned by Woodside Energy, Santos and INPEX Corporation.

Government of Western Australia

**Department of Energy, Mines, Industry Regulation  
and Safety**

8.30am – 4.30pm

Mineral House, 100 Plain Street  
East Perth, Western Australia 6004  
Tel: +61 8 9222 3333  
Fax: +61 8 9222 3862

**Online**

Website: [www.demirs.wa.gov.au](http://www.demirs.wa.gov.au)  
Email: [statistics@demirs.wa.gov.au](mailto:statistics@demirs.wa.gov.au)

**Mailing address**

Locked Bag 100  
East Perth WA 6892

**National Relay Service: 13 36 77**

**Translating and Interpreting Service (TIS) 13 14 50**

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