MAJOR RESOURCE PROJECTS
Western Australia — 2015

Major projects operating or under development in 2015 with an actual/anticipated value of annual production of greater than $A10 million are shown in blue
Proposed or potential major projects with a capital expenditure estimated to be greater than $A20 million are shown in red
Care and maintenance projects are shown in purple

INSET A
SCALE 1:1 200 000
50 km

Mutineer, Fletcher, Finucane, Exeter, Lambert Deep, Hermes, Lambert, Searipple, Athena, Eaglehawk, Egret, Angel, Capella, Montague, Cossack, Perseus, Persephone, Wanaea, Forestier, North Rankin, Ajax, Gaea, Hurricane, Goodwyn, Echo/Yodel, Keast, Goodwyn S/Pueblo, Rankin/Sculptor, Tidepole, Dockrell, Pemberton, Dixon/W.Dixon, Wheatstone, Saffron, Sage, Reindeer, Caribou, Gnu, Wandoo, Corvus, Tusk, Stag, Oryx, Chamois, Larsen Deep, Noblige, Larsen, Chandon, Yellowglen, Io, Urania, Jansz, Pluto, Eris, Iago, Wilcox, Winchester, Io South, Geryon, Eurytion, Xena, Toporoa, Brunello, Balnaves, Chrysaor/Dionysus, Maenad, Orthrus, Julimar, Bravo, Glencoe, Briseis, Nimblefoot, Achilles, Acme, Clio, West Tryal Rocks, The Grafter, Clio South, Clio North, Pontus, Gorgon, John Brookes, Satyr, Rosella, Wonnich, Wonnich Deep, Bambra, Ulidia, Lee, Rose, Monty, Josephine, Baker, Bambra East, Harriet, Maitland, North Atkinos, Rosella North, Spar, Halyard, Agincourt, Simpson, South Plato, Victoria, Pedirka, Double Island, Little Sandy, Narvik, Gorgon LNG, Barrow Island, West Cycad, Mentorc, Chester, Sappho, Bianchi, Zola, Antiope, Tallaganda, Bunyip, Pasco, Flinders Shoal, Ramillies, Coniston, Novara, Van Gogh, Vincent, Nimrod, Eskdale, Enfield, Toro, Stybarrow, Crosby, Stickle, Macedon, Scafell, Laverda, Ravensworth, Pyrenees, Black Pearl, Leatherback, Outtrim, Corowa, Blencathra, Skate, Roller, Coaster, Ashburton North, Onslow, Onslow Salt, Wheatstone LNG, Macedon Gas, Nasutus, Cyrano, Mardie, South Chervil, Cadell, Australind, Saladin, Crest, Cowle, Mesa A – Warramboo, Mesa J, Middle Rose Mesas, Phoenix South, Sino/Citic, Balmoral South, Whundo Zn Cu, Munni Munni Pt Pd, Devil Creek Gas, Maitland River, Cape Preston, Cape Preston East, Radio Hill, Pasco, Cape Lambert, Sherlock Bay, Dampier Salt, Yara Pilbara Fertilisers, Yara Pilbara Nitrates, Dampier, WMSV LNG, Pluto LNG, Anketell, Cape Lambert, Sherlock Bay, Cape Lambert, Ord Stage 2, Ord Stage 1, Ord River Hydro Energy, Speewah V Ti Fe, Speewah Fl, Smoke Creek, Ridges, Argyle, Matsu, Savannah, McIntosh Gr, Copernicus, Panton Pt Pd, Lamboo, Koongie Park Zn Cu Pb, Hastings REE Nb Zr, Browns Range REE, Kapok West Pb Zn Ag, Sorby Hills Pb Zn Cu, Wyndham, Blacktip, Turtle, Mitchell Plateau, Cape Bougainville, Gwydion, Prometheus/Rubicon, Petrel, Frigate, Tern, Cornea, Echuca Shoals, Prelude, Mimia, Concerto, Lasseter, Crown, Kronos, Pharos, Ichthys West, Ichthys, Torosa, Scott Reef, Brecknock, Calliance, Burnside, Laminaria East, Irvine Island, Cockatoo Island, Koolan Island, Oobagooma, Point Torment, Derby, Broome, Thunderbird, Browse LNG Precinct, Canning Basin tight gas, Boundary, Sundown, Joy, West Terrace, Blina, Ellendale, Ungani, Valhalla, Duchess–Paradise, Pictor East, Admiral Bay Zn Pb, Phoenix South, Port Hedland Salt, Port Hedland, Ridley, Balla Balla, Salt Creek Zn Cu Pb, Balla Balla Fe Ti, Whim Creek Cu Zn Pb, Pilgangoora Li, Wodgina Ta, Wodgina, Abydos, Sulphur Springs Zn Cu Pb, Iron Bridge Mag Nom, Tabba Tabba Ta, Spinifex Ridge Mo Cu, Mt Webber, McPhee Creek, Cookes Creek W, Nifty Cu, Woodie Woodie Mn, Telfer Au Cu, O'Callaghans W Cu Zn Pb, Nullagine/Millennium, Nullagine CID, Investigator, Firetail, Murrays Hill, Mesa – Ant Hill Mn, Yeneena Cu, Maroochydore Cu Co, Kintyre, Cloud Break, Christmas Creek, Roy Hill, Marillana/Brockman, Nyidinghu, Iron Valley, Yandicoogina/Hi, Jimidi, Rhodes Ridge, Ophthalmia, Hope Downs 4, JB Jimblebar JV, Wheelarra JV, Davidson Creek, Robertson Range, Lake Disappointment K, Coobina Cr, Prairie Downs Zn Pb Ag, Carley Bore, Nullagine CID, Bungaroo Creek, Bungaroo South, Pilbara/Flinders, Homestead, Serenity, West Pilbara, Silver Swan, Nammuldi, Western Turner Syncline, Brockman 4, Beasley River, Rocklea CID, Hardey, Turee Syncline, Western Range, Paraburdoo, Eastern Range, Channar, Mt Whaleback, 35, Koodaideri, Cashmere Downs, Mt Forrest, Yandi, Jimblebar, Railway, Mining Area C, Southern Flank, West Angelas, Womumunna, Giles Mini, Mt Bevan, Mt Mason, Mt Ida, Sons of Gwalia, Nicholas Downs Mn, Lawlers MgCO3, Lawlers, Agnew–Emu, Mt Magnet, Ben Hur – Epsilon, Marshall Pool, Windarra, Murrin Murrin, NiWest, Lavarton/Focus, Brightstar Alpha, Mt Weld Phos, Mt Weld REE, Granny Smith – Wallaby, Sunrise Dam, Red October, Fortitude, Second Fortune, Tropicana, Cyclone, Mackay K, Thatcher Soak, Gruyere–Yamarna, Moolart Well, Garden Well & Rosemont, Rosie, Odysseus–Cosmos, Leinster, Parlot, Bronzewing, Yakabindie, Cliffs, Lake Maitland, Mt Keith, Yeelirrie, Gidgee, Hollandaire–Eelya Cu Au Ag, Barrambie V Ti Fe, Murchison / Silver Lake, Great Fingall, Big Bell, Nowthanna, Gabanintha V Ti Fe, Hillview, Hinkler Well, Honeymoon Well, Lake Way, Matilda, Wiluna West, Wiluna, Paroo Station Pb, Jundee–Nimary, Andy Well, Meekatharra, Weld Range, Jack Hills, Goburn, Telecom Hill, Peak Hill, DeGrussa, Thaduna Cu Ag, Doolgunna Cu Au, Plutonic, Grosvenor, Beyondie, Plutonic Dome, Glenburgh, Yalbra Gr, Deception, Lake Giles, Highway, Goongarrie, Windarling Range, Mt Jackson 1, Marda, Jackson 4, Carina, Scotia, Aphrodite, Canegrass, Mulga Rock, South Laverton – Carosue Dam, Ponton, Aldiss, Nova–Bollinger, Mt Thirsty, Eucla West, Lake Johnston – Maggie Hays, Mt Henry, Lounge Lizard, Spotted Quoll, Blue Vein – Mt Holland, Flying Fox, Sparks Kin, Salmon Gums, Scaddan, Ravensthorpe, Phillips River – Trilogy Au Cu, Esperance, Southdown, Albany wind, Albany, Whicher Range, Greenbushes Li, Flat Rock Wind, Bilberatha Hill, Deflector Au Cu Ag, Golden Grove Cu Zn Pb, Kirkalocka, Shine, Hinge, Mungada, Mt Mulgine W, Karara Mag Hem, Magnetite Range, Extension Hill Hem, Extension Hill Mag, Thirsty Springs Zn, Irwin River, Eneabba, Warro, Dandaragan K Phos, Badgingarra wind, Atlas, Cooljarloo/Tronox, Mogra Chert, Emu Downs wind, Catsby, Yeregin, Gingin West, Rod Gully, Wandoo, Boonanarring, Chandala mineral separation and synthetic rutile, Collgar wind, Nevoria, Mt Caudan, Mulga Rock, Ponton, Ucarari Cu, Butcherbird Mn, Abra Pb Cu Zn, Cape Cuvier, Lake MacLeod Gp, Lake MacLeod Salt, Shark Bay Salt, Dongara, Tarantula, Senecio/Waitsia, Centauri 1, Xyris, Erdmia, Hovea, Apium, Jingemia, Evandra, Redback, Redback South, Cliff Head, Beharra Springs N, Beharra Springs, Oakajee, Geraldton, Narngulu synthetic rutile, Geraldton brick, Alinta wind, Mumbida wind, Eradu Pig Iron, Mineral separation, Greentough River solar, Irwin River, Eneabba, Warro, Dandaragan K Phos, Badgingarra wind, Atlas, Cooljarloo/Tronox, Mogra Chert, Emu Downs wind, Catsby, Yeregin, Gingin West, Rod Gully, Wandoo, Boonanarring, Chandala mineral separation and synthetic rutile, Collgar wind, Nevoria, Mt Caudan, Mulga Rock, Ponton, Aldiss, Nova–Bollinger, Mt Thirsty, Eucla West, Lake Johnston – Maggie Hays, Mt Henry, Lounge Lizard, Spotted Quoll, Blue Vein – Mt Holland, Flying Fox, Sparks Kin, Salmon Gums, Scaddan, Ravensthorpe, Phillips River – Trilogy Au Cu, Esperance, Southdown, Albany wind, Albany, Whicher Range, Greenbushes Li, Flat Rock Wind, Bilberatha Hill, Deflector Au Cu Ag, Golden Grove Cu Zn Pb, Kirkalocka, Shine, Hinge, Mungada, Mt Mulgine W, Karara Mag Hem, Magnetite Range, Extension Hill Hem, Extension Hill Mag, Thirsty Springs Zn, Irwin River, Eneabba, Warro, Dandaragan K Phos, Badgingarra wind, Atlas, Cooljarloo/Tronox, Mogra Chert, Emu Downs wind, Catsby, Yeregin, Gingin West, Rod Gully, Wandoo, Boonanarring, Chandala mineral separation and synthetic rutile, Collgar wind, Nevoria, Mt Caudan, Mulga Rock, Ponton, Aldiss, Nova–Bollinger, Mt Thirsty, Eucla West, Lake Johnston – Maggie Hays, Mt Henry, Lounge Lizard, Spotted Quoll, Blue Vein – Mt Holland, Flying Fox, Sparks Kin, Salmon Gums, Scaddan, Ravensthorpe, Phillips River – Trilogy Au Cu, Esperance, Southdown, Albany wind, Albany, Whicher Range, Greenbushes Li, Flat Rock Wind, Bilberatha Hill, Deflector Au Cu Ag, Golden Grove Cu Zn Pb, Kirkalocka, Shine, Hinge, Mungada, Mt Mulgine W, Karara Mag Hem, Magnetite Range, Extension Hill Hem, Extension Hill Mag, Thirsty Springs Zn, Irwin River, Eneabba, Warro, Dandaragan K Phos, Badgingarra wind, Atlas, Cooljarloo/Tronox, Mogra Chert, Emu Downs wind, Catsby, Yeregin, Gingin West, Rod Gully, Wandoo, Boonanarring, Chandala mineral separation and synthetic rutile, Collgar wind, Nevoria, Mt Caudan, Mulga Rock, Ponton, Aldiss, Nova–Bollinger, Mt Thirsty, Eucla West, Lake Johnston – Maggie Hays, Mt Henry, Lounge Lizard, Spotted Quoll, Blue Vein – Mt Holland, Flying Fox, Sparks Kin, Salmon Gums, Scaddan, Ravensthorpe, Phillips River – Trilogy Au Cu, Esperance, Southdown, Albany wind, Albany, Whicher Range, Greenbushes Li, Flat Rock Wind, Bilberatha Hill, Deflector Au Cu Ag, Golden Grove Cu Zn Pb, Kirkalocka, Shine, Hinge, Mungada, Mt Mulgine W, Karara Mag Hem, Magnetite Range, Extension Hill Hem, Extension Hill Mag, Thirsty Springs Zn, Irwin River, Eneabba, Warro, Dandaragan K Phos, Badgingarra wind, Atlas, Cooljarloo/Tronox, Mogra Chert, Emu Downs wind, Catsby, Yeregin, Gingin West, Rod Gully, Wandoo, Boonanarring, Chandala mineral separation and synthetic rutile, Collgar wind, Nevoria, Mt Caudan

INSET B
SCALE 1:1 500 000
5 km

Mount Horner, Corybas, Dongara, Seneco/Waitsia, Centauri 1, Xyris, Erdmia, Hovea, Apium, Jingemia, Evandra, Dongara, Tarantula, Beharra Springs N, Redback, Beharra Springs, Redback South, Cliff Head

Elevation (metres above sea level): 1250, 1000, 750, 500, 250, 0

INSET C
SCALE 1:1 200 000
25 km

Wesbeam timber, Felicitas, Nerabup/Nowgen, Middle Swan brick, Malaga brick, Caversham tile, Midland brick, Airport brick, Armadale brick, Carmup brick, Keysbrook, Huntly, Pinjarra Al, Boddington Au Cu, Marradong, Saddleback, Willowdale, Wagerup Al, Southern Seawater desalination, Kemerton Sisd, Worsley Al, Bluewaters 1–2, Collie, Ewington, Premier, Muja, Muja South, Cristal mineral separation, Wesfi timber, Wespine timber, Dardanup, Collie–Shotts urea, Capel North synthetic rutile, Wonnerup North, Tutunup, Wonnerup South, Tutunup South, Yoongarillup

Kwinana–Rockingham
- Alumina refinery
- Ammonium nitrate
- Bulk terminal
- Cement and lime
- Chlor alkali
- Desalination
- Fused alumina
- Fused zirconia
- LNG
- LPG
- Nickel refinery
- Oil refinery
- Power plant
- Sodium cyanide
- Titanium pigment
- Zirconia

Kemerton
- Chlor alkali
- Silicon smelter
- Titanium pigment

SEE INSET A
SEE INSET B
SEE INSET C
SEE INSET D

INSET D
SCALE 1:1 500 000
50 km

Siberia, Kalgoorlie North, Cawse, Paddington, Oril Bando, Broad Arrow, Kanowna, Kurnalpi, Castle Hill, Black Flag, Kanowna Belle, Frogs Leg, Kundana, White Foil, Nickel smelter, Nimbus–Boorara, Ag Au Zn, Superpit, Blair, Bullabulling, Mt Monger, Coolgardie–Redemption, South Kal, Carnilya Hill, Randalls, Mt Marion Li Ta Mica, Nepean, Long–Victor, Nickel concentrator, St Ives and Toll Treatment plant, Lanfranchi, Bald Hill Ta, Mitel, Mariners, Trident, Lindsays, Black Swan, Kalgoorlie–Boulder, Lake Lefroy, Lake Cowan

MINERAL SYMBOLS
- Precious mineral (Dmd (or as shown))
- Precious metal (Au (or as shown))
- Steel alloy metal (Ni (or as shown))
- Speciality metal (Ti–Zr (or as shown))
- Base metal (as shown)
- Iron (Fe (or as shown))
- Alumina (Bx (or as shown))
- Coal or lignite
- Uranium
- Industrial mineral (as shown)
- Processing plant

PETROLEUM SYMBOLS
- Gas field
- Oil field
- Oil and gas field
- Significant gas field discovery
- Significant oil field discovery
- Significant oil and gas field discovery
- Processing plant

INFRASTRUCTURE SYMBOLS
- Radio-astronomy observatory
- Port
- Irrigation/Water/Desalination
- Power plant

COMMODITY CODES
Ag..... Silver
Al..... Aluminium
Au..... Gold
Bx..... Bauxite
Co..... Cobalt
Cr..... Chromium
Cu..... Copper
Dmd..... Diamond
Fe..... Iron
Fl..... Fluorite
Gp..... Gypsum
Gr..... Graphite
Grt..... Garnet
Hem..... Hematite
K..... Potassium
Kln..... Kaolin
Li..... Lithium
LNG..... Liquefied natural gas
LPG..... Liquefied petroleum gas
Lst..... Limestone
Mag..... Magnetite
$MgCO_3$.. Magnesite
Mn..... Manganese
Mo..... Molybdenum
Nb..... Niobium
Ni..... Nickel
Pb..... Lead
Pd..... Palladium
Phos..... Phosphate
Pt..... Platinum
PGE..... Platinum group elements
REE..... Rare earth elements
Sisd..... Silica sand
Ta..... Tantalum
Ti..... Titanium
Tlc..... Talc
V..... Vanadium
W..... Tungsten
Zn..... Zinc
Zr..... Zirconium

- Major road
- Formed road
- Track
- Railway, operating
- Railway, proposed
- Gas pipeline
- Gas pipeline, proposed
- Oil pipeline
- Oil pipeline, proposed
- City (PERTH)
- Townsite: population 10 000–15 000 (KARRATHA); 1000–10 000 (CARNARVON); less than 1000 (Wiluna)
- Homestead (Carnegie)
- Aboriginal community (Warmun)
- Locality (Pardoo Roadhouse)
- Watercourse, predominantly ephemeral
- Lake
- Paleodrainage, inactive or rarely active
- Bathymetric contour, metres (200 m)

Compiled by RW Cooper, PB Abeysinghe, C Strong and F Irimies 2015
Edited by K Greenberg and MA Ferland
Cartography by AK Francois
Information on mineral projects held in MINEDEX database, DMP, January 2015
Information on petroleum fields and significant petroleum discoveries in Western Australia (onshore and in State-controlled waters) is held in WAPIMS database, DMP. November 2014 Field data for offshore Commonwealth-controlled waters is up-to-date as of December 2014; enquiries for the latest information on fields in offshore waters should be addressed to the National Offshore Petroleum Titles Administrator (NOPTA) at info@nopta.gov.au.
Relief shading by GSWA using Shuttle Radar Topography Mission (SRTM) data from NASA <http://jpl.nasa.gov>, processed by CIAT <http://gisweb.ciat.cgiar.org>
Topography from Landgate, 2013
For up-to-date information see online databases
MINEDEX, WAPIMS, and GeoVIEW.WA at <http://www.dmp.wa.gov.au>

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Government of **Western Australia**
Department of **Mines and Petroleum**
HON. BILL MARMION MLA
MINISTER FOR MINES AND PETROLEUM

Geological Survey of Western Australia
RICK ROGERSON
EXECUTIVE DIRECTOR

SCALE 1:3 000 000
0 100 200 300 400
KILOMETRES
ALBERS EQUAL AREA PROJECTION WITH CENTRAL MERIDIAN 121° AND STANDARD PARALLELS 17°30' AND 31°30'
HORIZONTAL DATUM: GEOCENTRIC DATUM OF AUSTRALIA 1994 (GDA94)