

Data sources for place-based planning for health in northern Queensland

INTEGRATING HEALTH CARE PLANNING FOR HEALTH AND PROSPERITY IN NORTH QUEENSLAND RESEARCH PROJECT OCTOBER 2022

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Background

The <u>Integrating Health Care Planning for Health and Prosperity in North Queensland</u> project brings together key public and private health system partners across northern Queensland, including Hospital and Health Services, Primary Health Networks and the Community Controlled Health Sector to take a regional approach to strengthening the integration of care and place-based planning of workforce and service implementation in northern Queensland. The project builds on findings and recommendations made in the Health Service Delivery Situational Analysis that was informed by widespread stakeholder engagement across northern Australia and a comprehensive review of existing knowledge.¹

The project addresses the question: How do we best develop and implement processes for prioritising integrated place-based planning to the unique contexts of NQ? There are four main project phases:

- (i) Development of an interactive map displaying various indicators of health and services across the project region using Geographic Information System technology.
- (ii) Identify gaps in service provision and integration in collaboration with place-based stakeholders in different operational contexts to identify priority communities to trial place-based planning processes, where more effective models of care or redistribution/integration of services to best meet need may be particularly beneficial.
- (iii) Design and pilot implementation of new, or modified models of care in collaboration with communities and partners.
- (iv) Monitoring and evaluation of process, outcome and impact of place-based planning processes.

Place-based planning and monitoring requires accessible, compatible and quality data that are appropriately representative of places. This document catalogues data sources identified from a data scoping exercise of publicly available health and population data for possible inclusion in the Northern Queensland Health Atlas (an online, interactive map). The data scoping exercise highlighted that data are (i) challenging to find, access, use and interpret; (ii) difficult to integrate due to varying definitions and measures used; (iii) of varying quality arising from methodology (such as self-reported data) with indicators of reliability often missing from datasets; and (iv) often do not capture diversity across communities (particularly in terms of rural and remote communities and Aboriginal and Torres Strait Islander populations). We share the findings of our scoping exercise through this catalogue in an effort to improve accessibility of data for community members, community groups and health providers in northern Queensland.

The data sources in this catalogue may be useful for place-based planning for health at regional or community levels. Most data sources/data collections are publicly available while others are publicly available with registration or are restricted. Data may be available through request processes which may also require ethics approval, and/or subscription or a one-off payment (and these have been noted where information was clearly available).

¹ Edelman A, Grundy J, Moodley N, Larkins S, Topp S, Atkinson D, et al. Northern Australia health service delivery situational analysis. Townsville; 2020, May. Available at https://crcna.com.au/resources/publications/

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List of abbreviations

GCCSA Greater Capital City Statistical Areas
HHS Hospital and Health Service

IARE Indigenous Area
IREG Indigenous Region

LASN Local Ambulance Service Network

LGA Local Government Area

LHN Local Hospital Network

MMM Modified Monash Model

PHA Population Health Area

PHN Primary Health Network

RA Remoteness Area

SA1 Statistical Area Level 1

SA2 Statistical Area Level 2 SA3 Statistical Area Level 3

SA4 Statistical Area Level 4

Workforce

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Australian Bureau of Statistics	Labour Force Survey – Occupation and Employment	Detailed monthly and quarterly Labour Force Survey data, including hours, regions, families, job search, job duration, casual, industry and occupation.	Monthly	Public	Datasheets		https://www.abs.gov.a u/statistics/labour/emp loyment-and- unemployment/labour- force-australia- detailed/latest- release#
Australian Bureau of Statistics	Census of Population and Housing — Employment, Income and Education	Data based on the Census of Population and Housing.	Every 5 years	Public with registration	TableBuilder tool for customisable downloads	All standard geography units	https://www.abs.gov.a u/statistics/microdata- tablebuilder/tablebuild er
Department of Health and Aged Care	National Health Workforce Dataset	Data for health professions registered through AHPRA. Based on AHPRA registration data and an annual workforce survey collected through the registration renewal process.	Annual	Public (with registration)	Online database with datasheet export available	LGA, SA2, SA3, SA4, RA, MMM, PHN, State/Territory, National	https://hwd.health.gov .au/datatool/
Department of Health and Aged Care	Medical Education and Training Dataset	Data about medical education - university, pre-vocational, vocational, international and special purpose training programs.	Annual	Public (with registration)	Online database with datasheet export available	RA, State/Territory, National	https://hwd.health.gov .au/datatool/

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Department of Health and Aged Care	Health Demand and Supply Utilisation Patterns Planning (HeaDS UPP)	HeaDS UPP brings health data together to visually highlight how the community uses and accesses health services and the health workforce. It provides a single access point to workforce data from a number of data sets such the Medicare Benefits Schedule, Australian General Practitioner Training, Royal Flying Doctor Service Program, National Health Workforce data set, National Health Service Directory, and others.		Restricted access will be available for Rural Workforce Agencies, PHNs, Medical colleges, Regional training organisations	Online platform	Standard geographic units plus GP Catchments	https://hwd.health.gov .au/headsupp/
Department of Health and Aged Care	General Practice Workforce	The Department of Health manages workforce data collections which describe the characteristics of the general practice workforce providing primary care services.	Annual	Public	Report, datasheets	State/Territory, RA	https://hwd.health.gov .au/resources/data/gp- primarycare.html
Health Workforce Queensland	Health Workforce Needs Assessment	Regional health workforce needs assessments are available. These are at state level with analysis for remoteness areas MMM 2-7. Analyses of workforce gaps are presented and some estimate of need based on data at SA2 level and GP FTE estimates.	Annual	Public	Reports	MMM, SA2	https://www.healthwo rkforce.com.au/hwna

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Health Workforce Queensland	Minimum Dataset	Health Workforce Queensland maintains an up-to-date database of the general practitioner workforce in remote, rural and regional Queensland that is informed by an annual survey of General Practices and General Practitioners, and a variety of other strategies.	Annual	Public	Reports	RA	https://www.healthwo rkforce.com.au/minimu m-data-set
Queensland Health	Queensland Health System Performance Reporting (SPR) platform	An interactive tool for health service performance information, workforce, and infographic reporting for hospital and health services	-	Restricted	N/A		https://www.health.qld .gov.au/system- governance/strategic- direction/health- workforce-information- gateway/data-and- analytics

Service delivery/performance

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Australian Government Services Australia	Medicare Item Reports	Online database that can be used to produce statistics on requested items in the Medicare Benefits Schedule or the Pharmaceutical Benefits Schedule.	Monthly, Quarterly, Annual	Public Customised by request, with appropriate ethics approval, and may incur a fee	Online database with datasheet export available	State/Territory	http://medicarestatistic s.humanservices.gov.au /statistics/mbs_item.js p
Australian Institute of Health and Welfare	MyHospitals	National reporting platform for access to hospitals, hospitals activity, spending on hospital services, hospital workforce and safety and quality	Annual	Public	Reports, datasheets	Facility, LHN	https://www.aihw.gov. au/reports- data/myhospitals

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Australian Institute of Health and Welfare	GEN (Aged Care Data)	GEN is a comprehensive "one-stop shop" for data and information about aged care services in Australia. It reports on capacity and activity in the aged care system focusing on the people, their care assessments and the services they use.	Varies	Public Aggregated data may be available by request.	Reports, datasheets	ACPR, SA3	https://www.gen- agedcaredata.gov.au/
Australian Institute of Health and Welfare	Australia's Health Performance Framework	Data for national indicators of the Australian Health Performance Framework.	-	Public	Report, datasheets	State/Territory, National	https://www.aihw.gov. au/reports- data/australias-health- performance
Australian Institute of Health and Welfare	Aboriginal and Torres Strait Islander Health Performance Framework	Data for national indicators of the Aboriginal and Torres Strait Islander Health Performance Framework	-	Public	Report, datasheets	PHN, State/Territory, National	https://www.indigenou shpf.gov.au/
CheckUp	Outreach Service Schedule	CheckUP is a not-for-profit organisation dedicated to better health for people and communities who need it most. CheckUp manage various funding programs for outreach services and provide a service schedule of these outreach services that includes health professionals involved in delivering the service, the number of visits and clinics, and the mode of service delivery.	Rolling updates	Public	Datasheet	Communities or small geographic areas	https://www.checkup.o rg.au/page/Initiatives/ Outreach Services/

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Department of Health and Aged Care	Services Australia Medicare and PBS Item/Group Reports Medicare Statistics	Statistics under Medicare. Available from September quarter 1984 onwards and financial year 1984-85 onwards. Rolling 12-month time series statistics are available from July 2009 to June 2010 onwards.	Annual, Quarterly	Public	Datasheets	MMM, State/Territory, National	https://www1.health.g ov.au/internet/main/p ublishing.nsf/Content/ Medicare+Statistics-1
Department of Social Services	NDIS Demand Map	Map provides forecast of NDIS demand by postcode by drawing on NDIS, census and DSS data to forecast to 2023. In Beta phase.	-	Public	Online database with datasheet export available.	Postcode	https://blcw.dss.gov.au /ndis-demand-map/
Government of Australia	National Disability Insurance Scheme (NDIS)	Datasets cover activity in areas of Agency operations, including: participant location, goals, outcomes and more, providers, budgets and plan management and plan utilisation, payments, support line items, market concentration.	Quarterly	Public Request process available	Reports, datasheets	LGA, SA2, SA3, SA4, Commonwealth Electorate Divisions, Planning region	https://data.ndis.gov.a u/data-downloads
Health Direct Australia	National Health Services Directory	The National Health Services Directory (NHSD) is a national directory of health services and the practitioners who provide them.	-	Public Restricted access to background information - by request for eligible stakeholders	Online directory	_	https://about.healthdir ect.gov.au/nhsd
Health Direct Australia	HealthMap	Healthmap is a Healthdirect Australia initiative to make important Australian health data available to everyone.	-	Public Restricted access to background information - by request for eligible stakeholders	Online map	-	https://healthmap.com .au/

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Productivity Commission	Report on Government Services	This report provides information on equity, effectiveness and efficiency of government services in Australia.	Annual	Public	Reports, some topics have datasheets	State/Territory, National	https://www.pc.gov.au /research/ongoing/rep ort-on-government- services
Queensland Government Open Data Portal	Public dental waiting lists	Public oral health waiting list statistics per clinic in Queensland.	Monthly	Public	Datasheets	Clinic	https://www.data.qld.g ov.au/dataset/public- dental-waiting-list
Queensland Government Open Data Portal	Queensland Ambulance Service Incidents by LASN	Queensland Ambulance Service incidents per Local Area Service Network.	Monthly	Public	Datasheets	LASN	https://www.data.qld.g ov.au/dataset/queensl and-ambulance- service-incidents-by- lasn-2020-2021
Queensland Government Open Data Portal	Emergency departments	Summary file about emergency departments with information on activity and performance measures.	Quarterly	Public	Datasheets	Facility	https://www.data.qld.g ov.au/dataset/emergen cy-departments- quarterly-data
Queensland Government Open Data Portal	Retrieval Services Queensland (RSQ) activity	Adult, neonatal, paediatric, and high risk obstetric clinical coordination activity for Queensland.	Annual	Public	Datasheets	Facility	https://www.data.qld.g ov.au/dataset/retrieval -services-queensland- rsq-activity
Queensland Government Open Data Portal	Elective surgery	Summary files on elective surgery and performance measures by hospital.	Quarterly	Public	Datasheets	Facility	https://www.data.qld.g ov.au/dataset/elective- surgery
Queensland Health	Hospital Performance	The website contains detailed, up-to- date and regular information on the activity and performance of Queensland Health's 106 hospitals that provide reportable information.	Quarterly	Public	Online platform. Downloadable data not available	Facility	http://www.performan ce.health.qld.gov.au/
Queensland Health	Inform My Care	Find and compare information about public and private hospitals and residential aged care facilities in Queensland.	-	Public	Online platform. Downloadable data not available	Facility	https://www.informmy care.health.qld.gov.au/ home

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Queensland Health	Queensland Statistical Services Branch	Collects, processes, analyses and disseminates statistics on the health of Queenslanders and their use of health services. Datasets include: Queensland Hospital Admitted Patient Data Collection, Perinatal Data Collection, Queensland Health Non-Admitted Patient Data Collection, Monthly Activity Collection, Emergency Data Collection, Information System for Oral Health, Integrated electronic Medical Record, Pathology, National Hospital Cost Data Collection, Queensland Ambulance Service Clinical and Dispatch data, Queensland Cancer Registry, Queensland Births, Deaths and Marriages – Death registration data, Vaccination Information and Vaccination Administration System.		Restricted Aggregated data may be available by request.	Datasheets	Facility, SA2, HHS, other	https://www.health.qld .gov.au/hsu
Queensland Health	InfoBank	Statistical reporting dashboards on activity, hospital, population, etc	-	Restricted to Queensland Health staff	_	-	https://www.health.qld .gov.au/system- governance/strategic- direction/health- workforce-information- gateway/data-and- analytics

Health behaviours

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Australian Bureau of Statistics	Health topics	Includes National Health Survey, National Aboriginal and Torres Strait Islander Health Survey, National Study of Mental Health and Wellbeing and the Survey of Disability, Ageing and Carers	-	Public	Datasheets	Varies with dataset: SA2 (modelled estimates for some areas), PHN, State/Territory, National	https://www.abs.gov.au/sta tistics#health
Australian Institute of Health and Welfare	Cancer screening and monitoring data	Population-based cancer screening and monitoring data for national screening programs for breast cancer, bowel cancer, cervical cancer.	Quarterly Annual	Public	Reports, datasheets	SA2, SA3, PHN, State, National	https://www.aihw.gov.au/r eports-data/health-welfare- services/cancer- screening/overview
Australian Institute of Health and Welfare	National perinatal data collection	Data are released for this collection as part of the mothers and babies topic. Includes antenatal care, health behaviours, perinatal deaths and births.	Annual	Public	Reports, datasheets	State/Territory, PHN, SA3	https://www.aihw.gov.au/r eports-data/population- groups/mothers- babies/data
Department of Health and Ageing	Childhood Immunisation Coverage	Annualised coverage data (quarterly reports) from 2015 sourced from the Australian Immunisation Register.	Quarterly	Public	Datasheets	SA3, PHN	https://www.health.gov.au/ resources/collections/childh ood-immunisation- coverage-data-phn-and-sa3
Department of Health and Ageing	Vaccination numbers and statistics	These reports list the percentage of people who have been vaccinated against COVID-19.	Monthly	Public	Reports, datasheets	LGA, SA3, SA4 (remote areas suppressed)	https://www.health.gov.au/ initiatives-and- programs/covid-19- vaccines/numbers-statistics
Queensland Government Open Data Portal	Queensland COVID-19 Case Line List – location and source of infection	A line list of Queensland's COVID-19 cases by date of individual's notification of COVID-19 detection, location of usual residence as well as the individual's source of COVID-19 infection.	Weekly	Public	Datasheets	Postcode, LGA, SA2	https://www.data.qld.gov.a u/dataset/queensland- covid-19-case-line-list- location-source-of-infection

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Queensland Government Open Data Portal	Queensland COVID-19 Case Line List – age groups	A line list of Queensland's COVID-19 cases by date of individual's notification of COVID-19 detection, as well as the individual's age group at time of notification.	Weekly	Public	Datasheets	State	https://www.data.qld.gov.a u/dataset/queensland- covid-19-case-line-list-age- groups
Queensland Health	Preventive Health Survey	Queensland Health conducts telephone surveys to learn more about the health and wellbeing of Queensland adults and children. Each year 12,500 adults and the parents of 2,500 children aged 5 through 17 years participate. Surveys focus on key preventive health indicators such as obesity, adult smoking, physical activity, nutrition, sunburn and sun protection, and adult alcohol consumption.	Annual	Public	Datasheets	LGA, HHS, PHN, State	https://www.health.qld.gov .au/research- reports/population- health/preventive-health- surveys/about
Queensland Health	Planning Portal	The Planning Portal provides interactive dashboards and reports for Queensland: demographics, socio-economic disadvantage, risk and protective behaviours adults and children, deaths	-	Public	Online platform, data not downloadable	SA2, SA3, HHS, State	https://www.health.qld.gov .au/system- governance/strategic- direction/plans/health- service

Health status

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Australian Bureau of Statistics	Census 2021: Health conditions	Information on selected long-term health conditions using Census of Population and Housing 2021.	First release	Public	Datasheets	ABS and non-ABS geography	https://www.abs.gov.a u/statistics/health/heal th-conditions-and- risks/health- census/2021
Australian Commission on Safety and Quality in Healthcare	Australian Atlas Healthcare Variation	Maps variations in care (various topics) using data routinely gathered to investigate if observed variations reflect differences in healthcare choices, treatment options and needs.	2 to 3 years	Public	Report, topic may have downloadabl e datasheets	Varies	https://www.safetyand quality.gov.au/publicati ons-and- resources/australian- atlas-healthcare- variation-series
Australian Institute of Health and Welfare	Mortality Over Regions and Time (MORT) books	MORT books are Excel workbooks that contain recent mortality data for specific geographical areas of Australia, sourced from the AIHW National Mortality Database. The workbooks also present the leading 20 causes of death by sex for specific geographical areas of Australia.	-	Public	Datasheets	LGA, GCCSA, SA3, SA4, PHN, RA, State, National	https://www.aihw.gov. au/reports/life- expectancy- death/mort- books/contents/about
Australian Institute of Health and Welfare	AIHW data by geography	The AIHW releases data at a range of geographies, including by areas smaller than states and territories. Reporting at these smaller, more 'local' areas can show results that may be masked by results for the whole of Australia, or for states and territories — allowing a better understanding for the local community, clinicians, policymakers and researchers.	Varies	Public	Report, datasheets	Varies	https://www.aihw.gov. au/about-our- data/aihw-data-by- geography

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Australian Institute of Health and Welfare	General Record of Incidence of Mortality (GRIM) books	GRIM books are Excel workbooks that contain national level, historical and recent mortality data for specific causes of death. The tables present age- and sex-specific counts and rates by cause of death, along with other summary measures.	-	PublicRequest process available	Datasheets	National	https://www.aihw.gov. au/reports/life- expectancy- deaths/grim- books/contents/about
Australian Institute of Health and Welfare	Suicide and Self Harm monitoring	The Suicide and Self-harm Monitoring System draws on multiple national data sources to address suicide and self-harm in Australia – including ambulance, hospital and mortality.	-	• Public	Report, datasheets	SA3, SA4, PHN, RA, State/Territory, National	https://www.aihw.gov. au/suicide-self-harm- monitoring
Cancer Council Queensland	Queensland Cancer Statistics Online (QCSOL)	An interactive platform that provides statistics on cancer diagnoses, deaths, survival and prevalence for the most common cancers among Queensland residents.	-	• Public	Online dashboard, datasheets	State	https://cancerqld.org.a u/research/queensland -cancer- statistics/queensland- cancer-statistics-online- qcsol/
Cancer Council Queensland	Australian Childhood Cancer Statistics Online	Provides recent incidence, survival and mortality data by sex and age group for the most common cancers among children in Australia. Information on changes in these measures over time are also presented.	-	• Public	Online dashboard	National	https://atlas.cancer.org .au/
Cancer Council Queensland, Queensland University of Technology, FrontierSI	Australian Cancer Atlas	The Australian Cancer Atlas is the first online, interactive platform showing how cancer diagnosis and survival vary across small areas for many different cancer types.	-	• Public	Online map, datasheets	SA2, RA, State/Territory	https://atlas.cancer.org .au/

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Department of Health and Ageing	National Notifiable Disease Surveillance System	Summary and record data for notifiable communicable diseases. NNDSS being decommissioned and replaced with a new system.	Annual, Fortnightly	PublicRequest process available	Reports, datasheets	State, National	https://www1.health.g ov.au/internet/main/p ublishing.nsf/Content/o hp-pub-datasets.htm
Heart Foundation	Australian Health Maps	Mortality, hospitalisations and prevalence for various cardiovascular diseases.	-	• Public	Online maps and area profiles	LGA, electorate, region, State/Territory	https://www.heartfoundation.org.au/health-professional-tools-(2)/interactive-heart-map-australia
National Diabetes Services Scheme	Australian Diabetes Map	The Australian Diabetes Map is the only national map monitoring the prevalence of diabetes in Australia. The data contained in the Australian Diabetes Map is derived from the NDSS Registrant database and the Australian Bureau of Statistics (ABS) and shows people diagnosed with diabetes who are registered on the NDSS.	-	PublicRequest process available	Online map with downloadabl e datasheets	LGA, postcode, PHN, State electorate, State/Territory, Federal electorate, National	https://www.ndss.com. au/about-the- ndss/diabetes-facts- and-figures/australian- diabetes-map/
Queensland Health	Notifiable Conditions Report	Reporting of notifiable conditions (communicable disease notifications).	Weekly, Annual	PublicRequest process available	Online report, data download unavailable	HHS, PHU, State	https://www.health.qld .gov.au/clinical- practice/guidelines- procedures/diseases- infection/surveillance/r eports
Queensland Health	Chief Health Officer Report	Reports on the health status of the Queensland population	Every 2 years	Public	Report, datasheets	HHS, PHN, State	https://www.health.qld .gov.au/research- reports/population- health

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
RHD Australia	Queensland RHD Register and Control Program	Queensland patient register and recall system for Acute Rheumatic Fever (ARF) and Rheumatic Heart Disease (RHD) for collection and provision of data for national monitoring and reporting and measuring program effectiveness in the detection and management. State-wide coordination unit based in Cairns and Clinical Nurse Consultants and Indigenous Health	-	PublicRequest process available	Datasheets and reports	National, State/Territory	https://www.rhdaustra lia.org.au/queensland
		Workers located in Hospital and Health Services in North West, Townsville and Mackay, Cairns and Hinterland and Torres Cape.					

Other topics

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Australian Bureau of Statistics	Statistics	Various topics: economy, labour, industry, people, health, environment, COVID-19.	Varies	 Public Subscription and restricted access for 'microdata' Customised by request and may incur a fee 	Geopackages (for spatial software); Datapack (excel & similar); Table builder	Varies: SA1, SA2, SA3, SA4, RA, LGA, SLA	https://www.abs.gov.a u/statistics
Australian Institute of Health and Welfare	Reports and data by topic/theme	Topics include housing assistance, homelessness, perinatal health, disability, cancer, hospitals and hospital activity, primary health care, alcohol and other drugs, and mortality.	Varies	Public	Report, datasheets	Varies	https://www.aihw.gov. au/reports-data/a-z- topics

Source	Data collection	Description	Frequency of data release	Availability	Format	Geography	Website
Australian Institute of Health and Welfare	Regional Insights for Indigenous Communities	Interactive map with data for Indigenous communities at various geographic levels: People and communities, education and work, mothers and babies, health risk factors, health conditions, life expectancy and mortality, housing circumstances and health.	-	Public	Online map, datasheets	IARE, IREG, SA2, SA3, State/Territory	https://www.rific.gov.a u/regional-overview
Public Health Information Development Unit (PHIDU)	Health Atlases of Australia	Since 2008, PHIDU has offered free online access to a comprehensive range of current (and some historical) data at national, jurisdictional, regional and small area levels for Australia. Socioeconomic and geographical variations in health are highlighted in interactive atlases and graphs, and supported by data tables and metadata. Where available, data are analysed by age, sex and Indigenous status.	Varies	Public	Online maps, datasheets	PHA, LGA, PHN, IA, State/Territory	https://phidu.torrens.e du.au/
Queensland Government	Queensland Government Statistician's Office	Statistics provided by theme and product. Regional tools and statistics page has Queensland regional profiles that has downloadable, customised reports.	Varies	Public	Datasheets, customisable regional profiles are downloadable.	Varies	https://www.qgso.qld. gov.au/statistics