

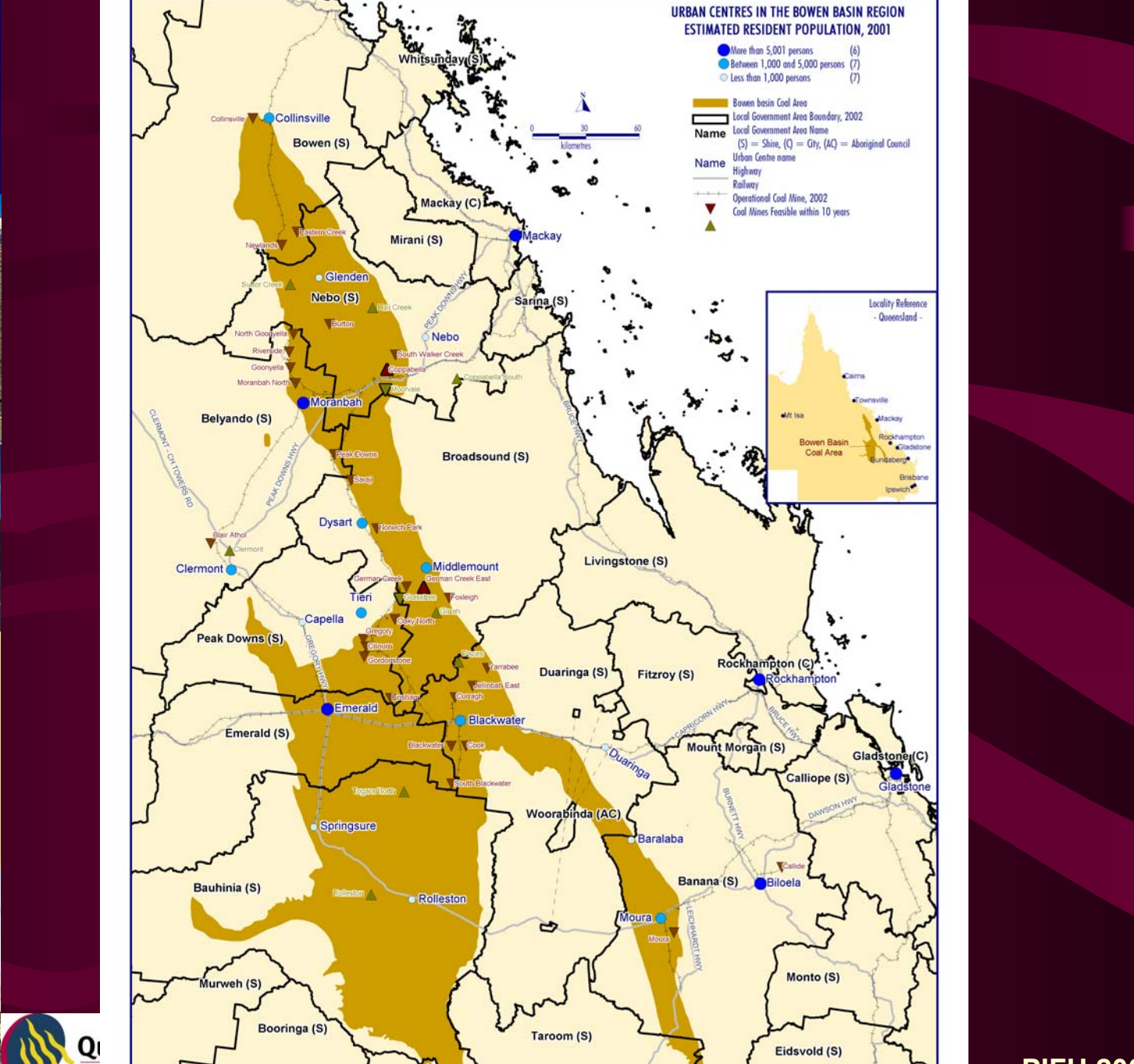
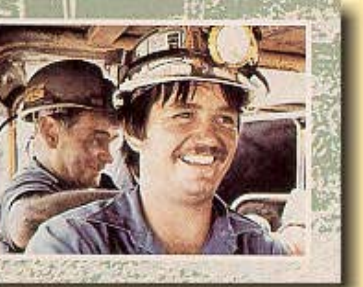
Central Highlands Regional Population Forum

Presenters: Alison Taylor and Ross Barker
Planning Information and Forecasting Unit
Department of Local Government and Planning

Central Highlands Regional Population Forum,
Emerald, 18 February 2005

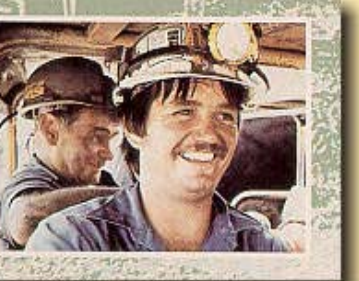
The Program

- 9.30 Welcome – Cr Peter Maguire
- 9.40 Current population trends – Alison Taylor
 - » Introduction
 - » Current & past patterns of growth
- 10.30 Morning tea
- 11.00 Population concepts workshop – Ross Barker
 - » Understanding population terms
 - » Discussion
- 12.00 Lunch
- 1.00 Population projections
 - » Current projections (Alison Taylor)
 - » Belyando case study (Ross Barker)
- 2.30 Afternoon tea
- 3.00 Action planning in groups
- 4.30 Thanks – Cr Tim Stevenson

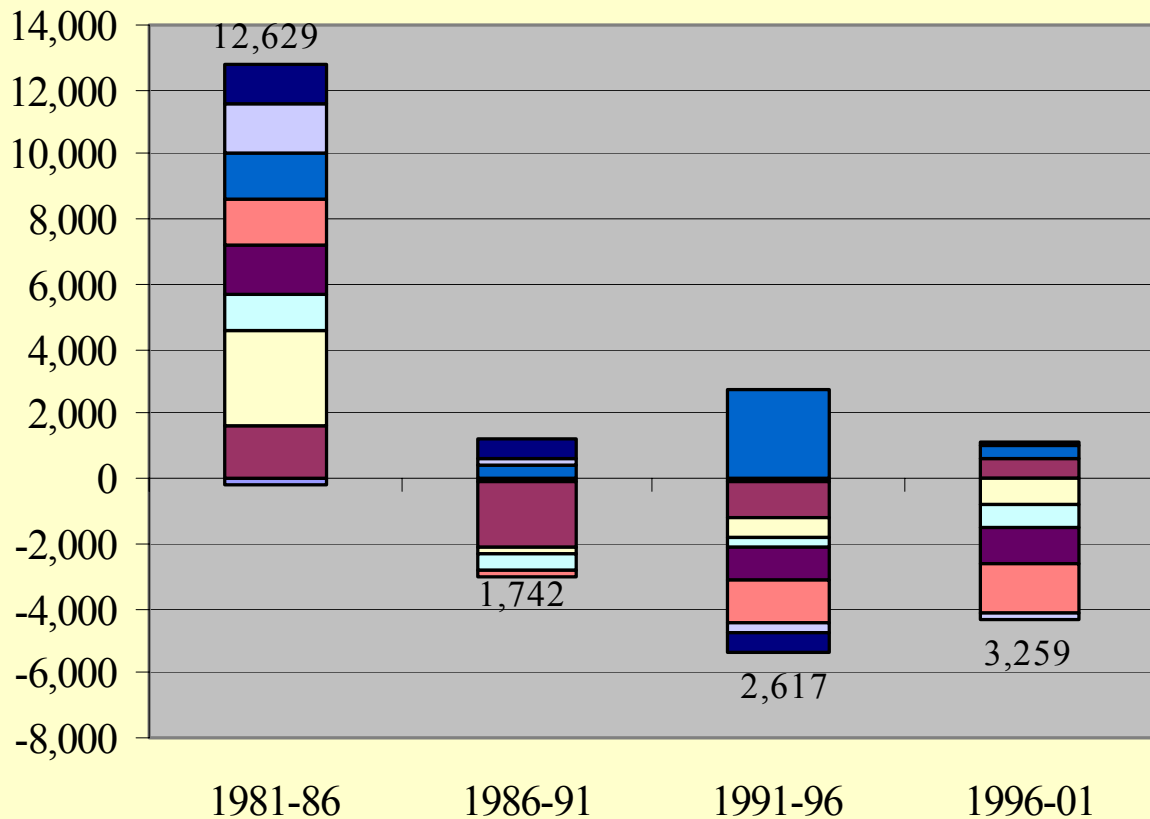
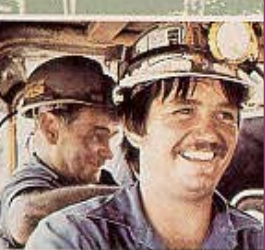


Current patterns of growth

- Population trends last 20 years
 - Local government areas
 - Urban centres and localities
 - Indicators of current growth
 - School enrolments
 - Mining industry workers estimates
- Socio-economic characteristics
 - Age structure
 - Broad characteristics
 - Journey to work patterns

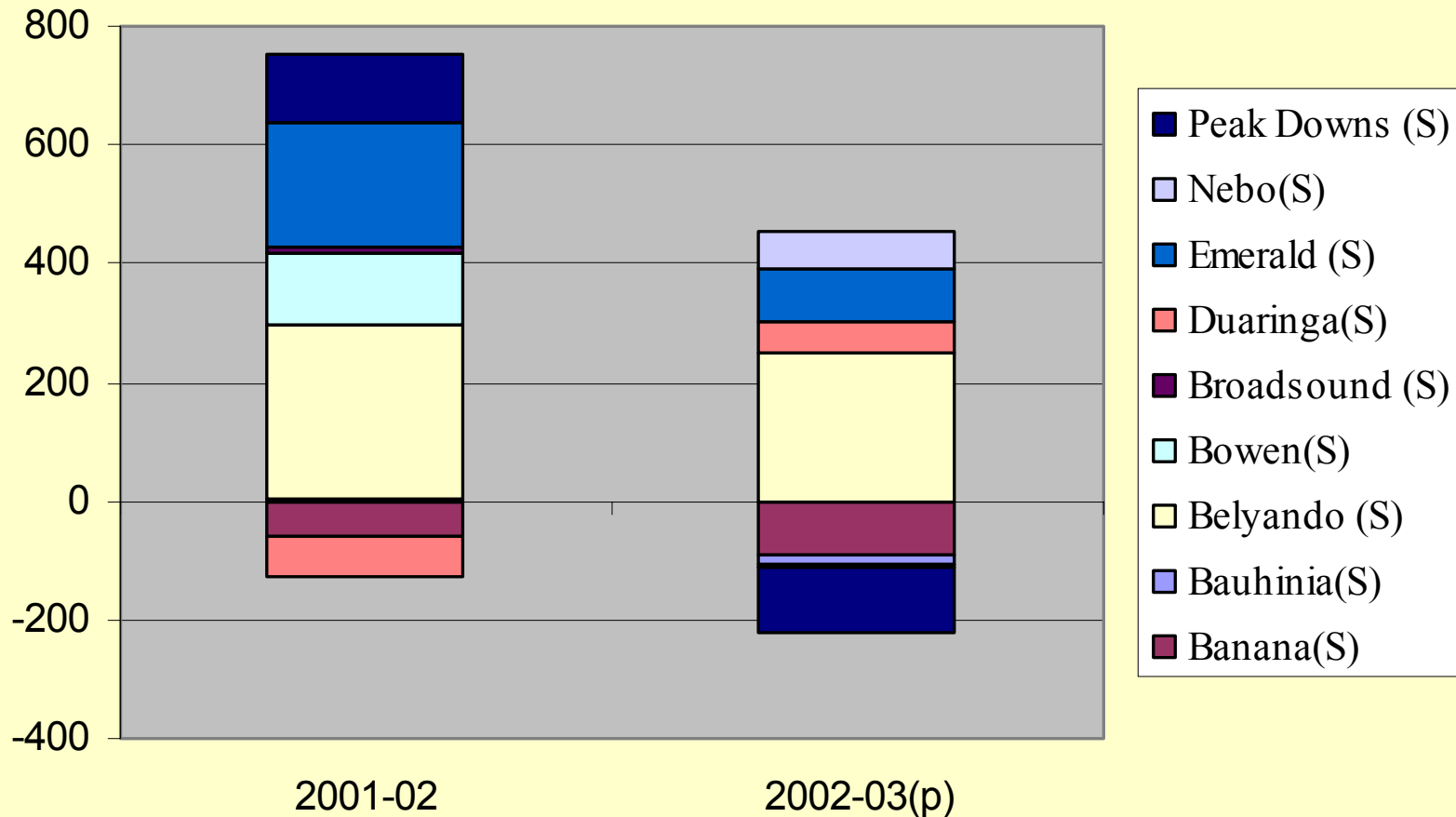


Bowen Basin population change



- Peak Downs (S)
- Nebo(S)
- Emerald (S)
- Duaringa(S)
- Broadsound (S)
- Bowen(S)
- Belyando (S)
- Banana(S)
- Bauhinia(S)

More recent population estimates



Average annual pop change

	1981-86	1986-91	1991-96	1996-01
Banana(S)	329	-401	-223	113
Bauhinia(S)	-30	-18	-25	3
Belyando (S)	592	-46	-108	-162
Bowen(S)	220	-104	-70	-147
Broadsound (S)	294	-4	-204	-214
Duaringa(S)	291	-24	-264	-315
Emerald (S)	293	87	544	98
Nebo(S)	289	44	-55	-33
Peak Downs (S)	248	117	-119	4
Total Bowen Basin LGAs	2,526	-348	-523	-652

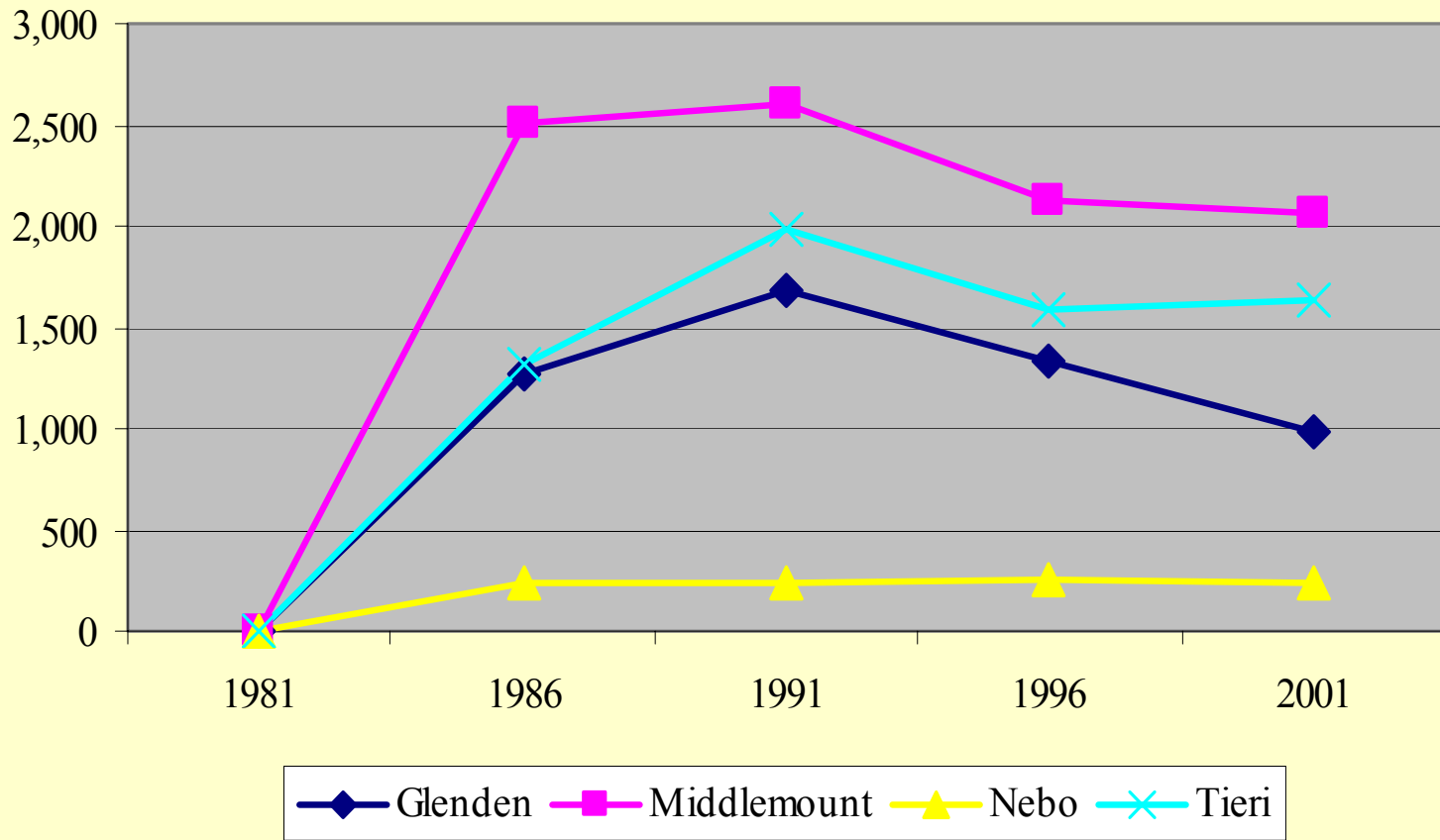
Source: ABS, Cat No 3218.0

Recent average annual pop change

	1996-01	2001-02	2002-03
Banana(S)	113	-59	-90
Bauhinia(S)	3	6	-14
Belyando (S)	-162	291	249
Bowen(S)	-147	122	1
Broadsound (S)	-214	8	-7
Duaringa(S)	-315	-70	50
Emerald (S)	98	209	93
Nebo(S)	-33	3	60
Peak Downs (S)	4	112	-110
Woorabinda AC	na	1	0
Total Bowen Basin LGAs	-652	622	232

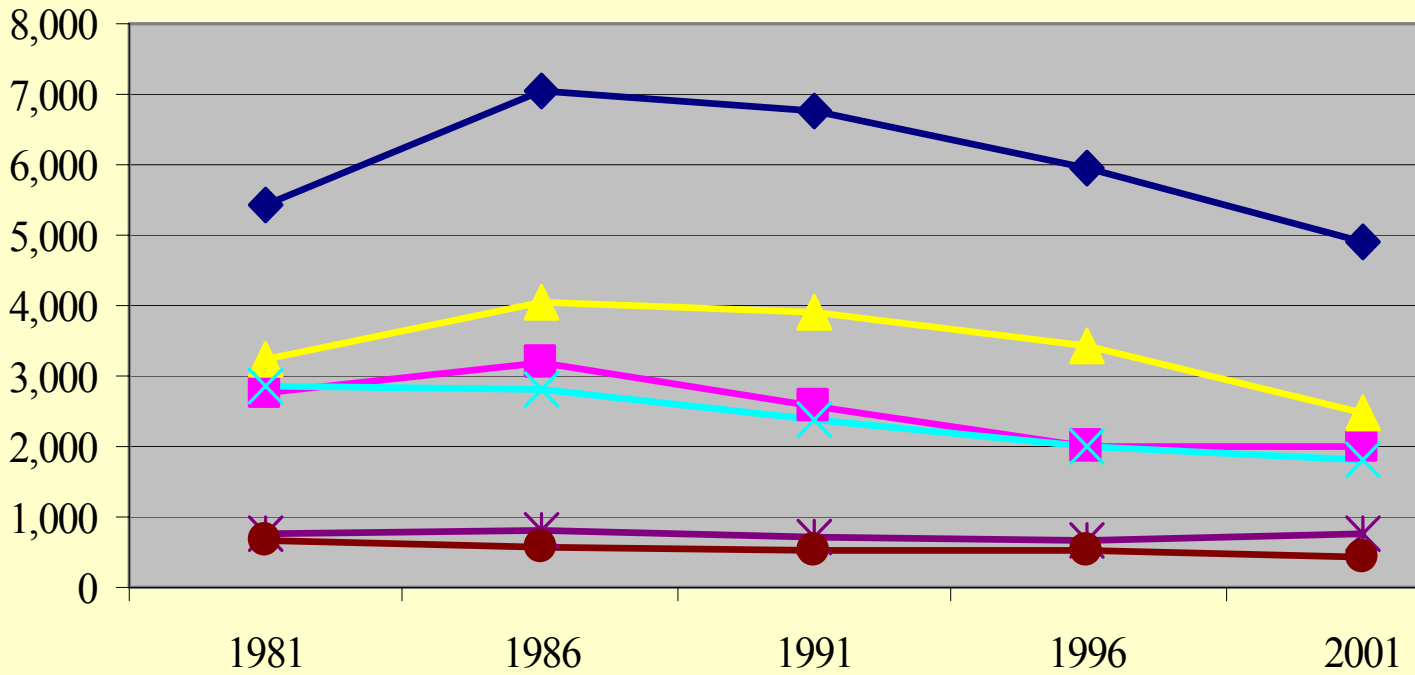
Source: ABS, Cat No 3218.0

Towns that grew from very little



Source: ABS, Census of Population & Housing

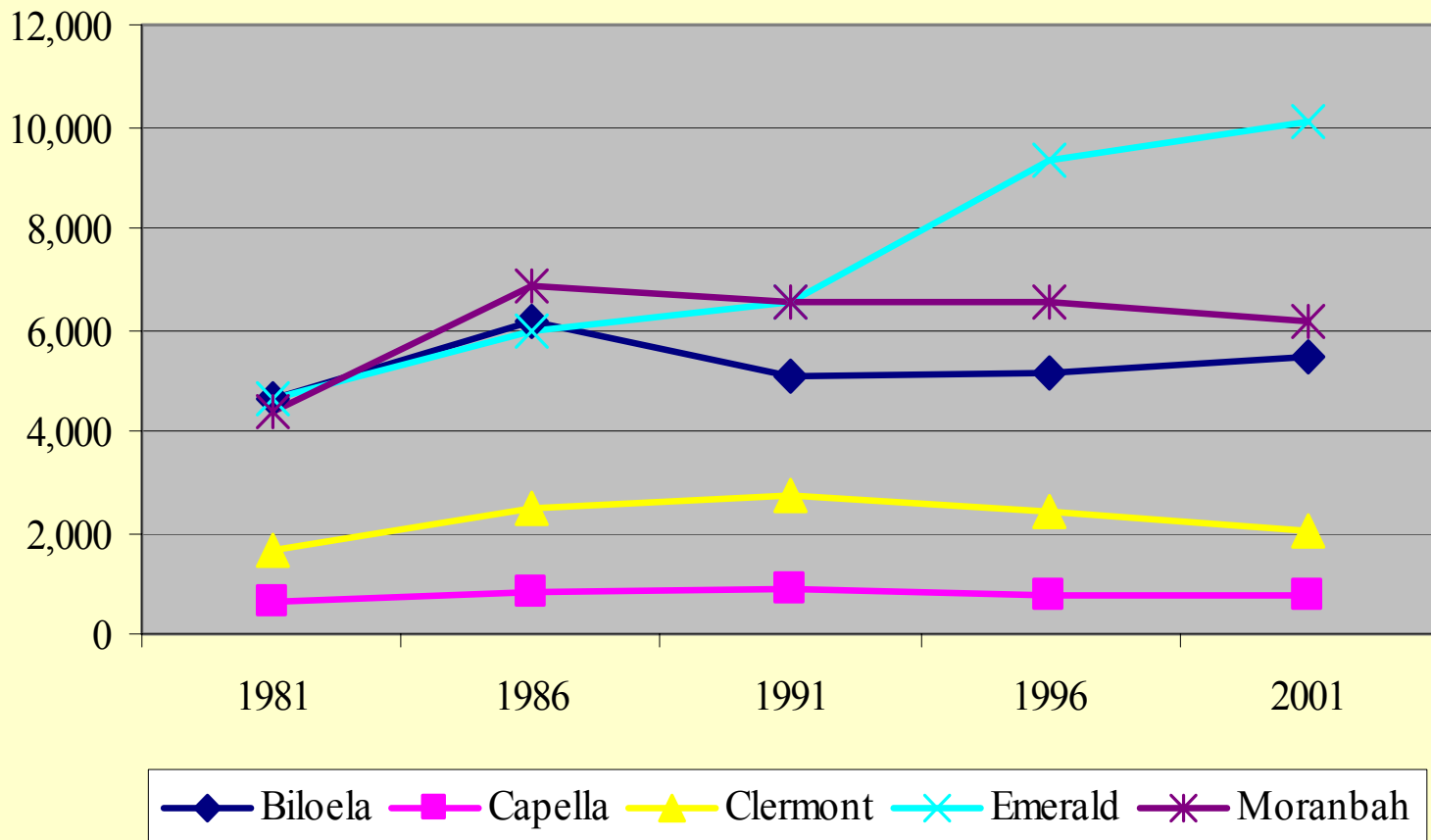
Towns that declined 1981-2001



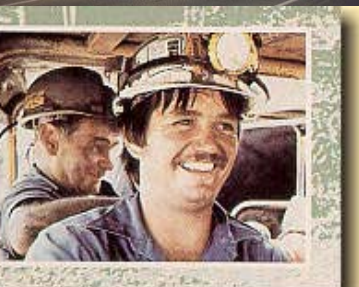
◆ Blackwater ■ Collinsville ▲ Dysart ✕ Moura
✱ Springsure ● Theodore



Towns that grew 1981-2001

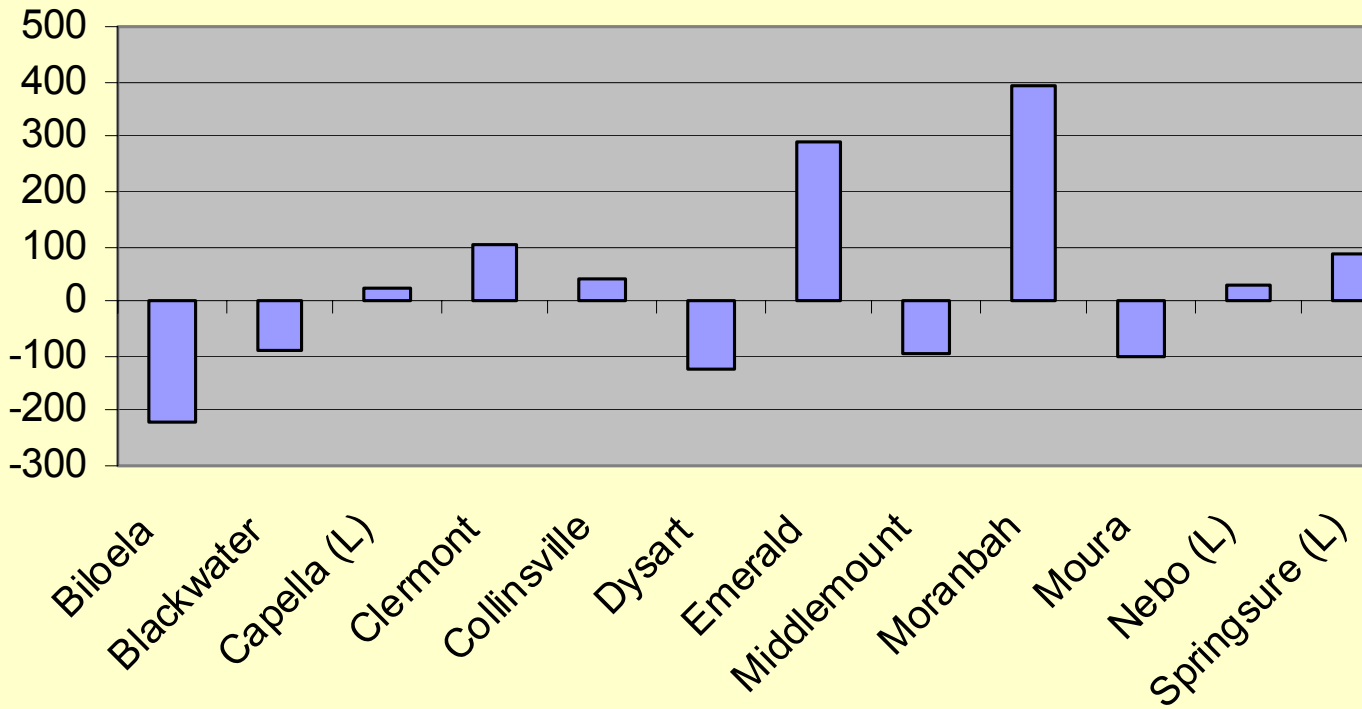
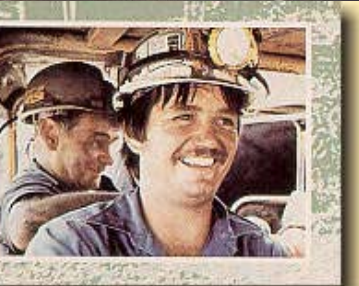


Population estimates for urban centres and localities

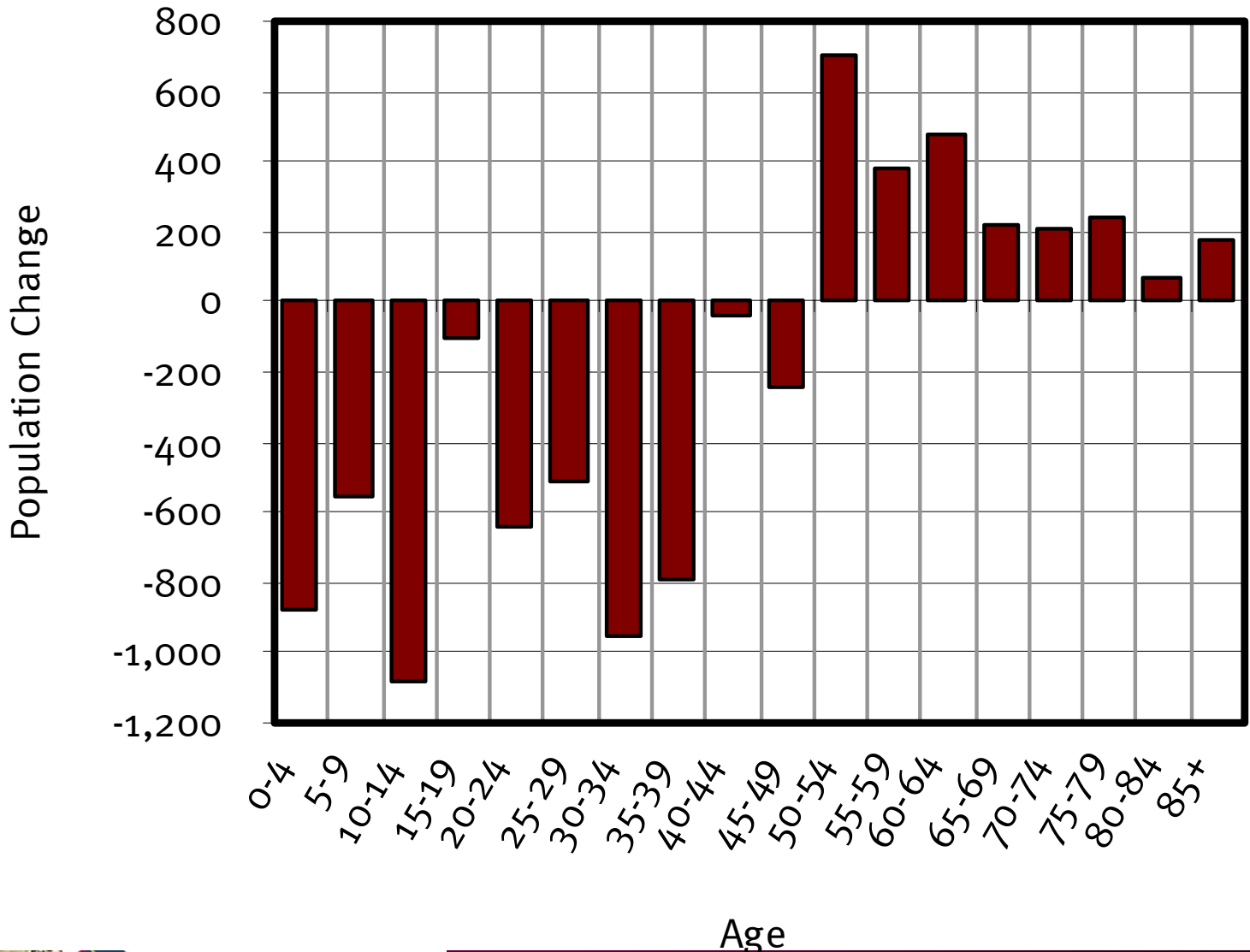


UCL	1,996	2,001	2,003	change 01-03
Biloela	5,269	5,714	5,496	-218
Blackwater	6,034	4,838	4,747	-91
Capella (L)	735	731	754	23
Clermont	2,376	1,994	2,099	105
Collinsville	2,076	2,045	2,087	42
Dysart	3,635	2,598	2,476	-122
Emerald	9,282	9,793	10,081	288
Glenden (L)	1,388	902	914	12
Middlemount	2,223	2,115	2,020	-95
Moranbah	6,757	6,281	6,673	392
Moura	1,999	1,933	1,831	-102
Nebo (L)		195	224	29
Springsure (L)	661	760	848	88
Theodore (L)	525	464	445	-19
Tieri	1,615	1,606	1,610	4
Total	44,575	41,969	42,305	336

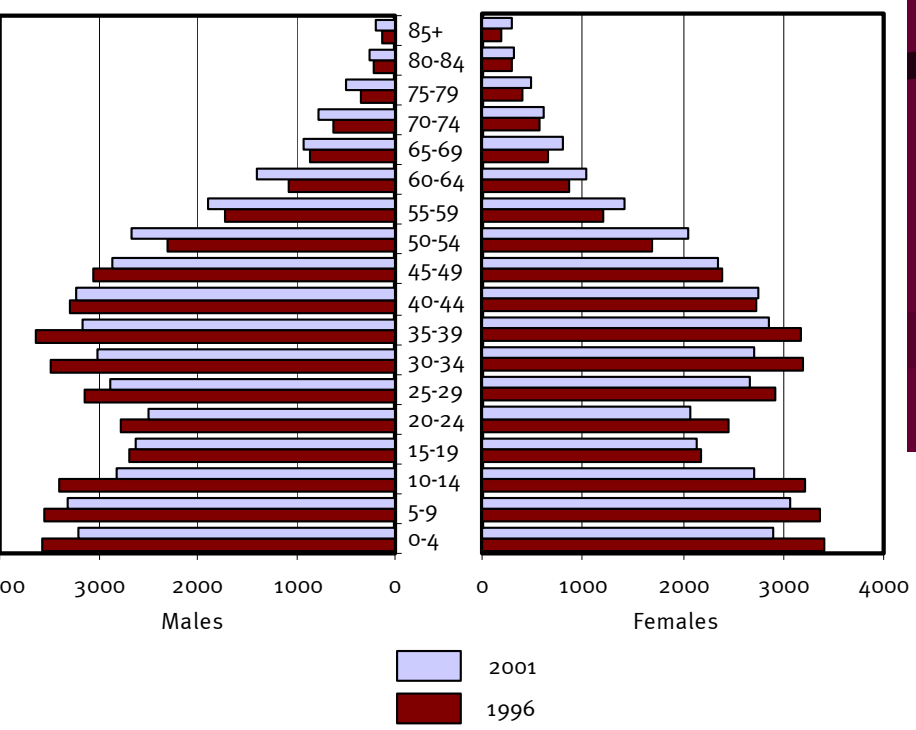
Locality population change 2001-03



Population change between 1996 - 2001, Bowen Basin Localities

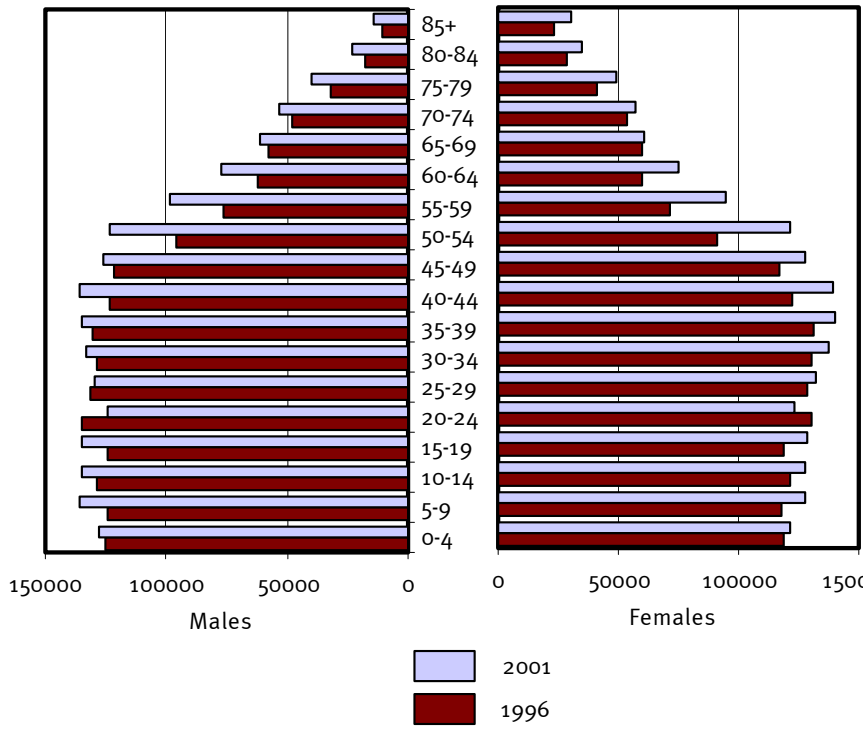


Graph 2: Changing age structure

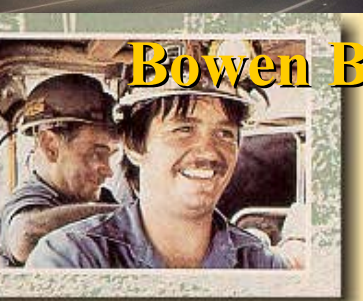


Queensland

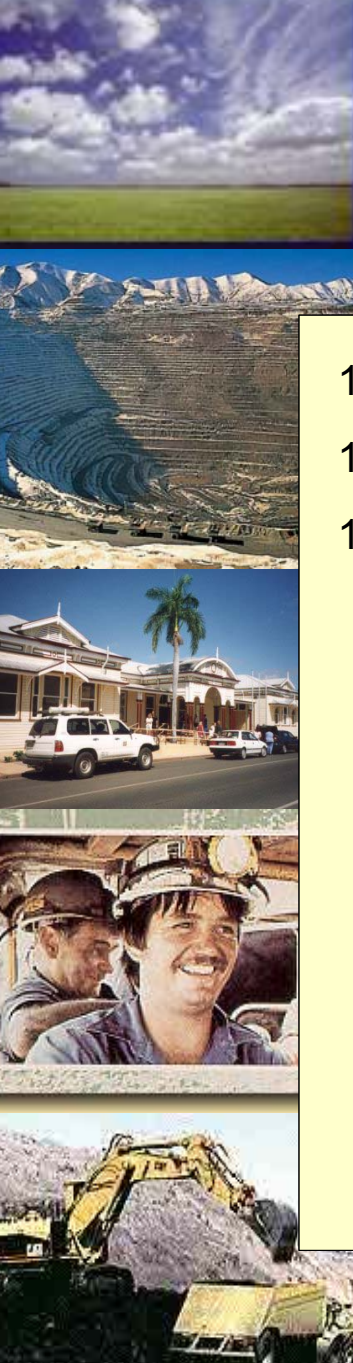
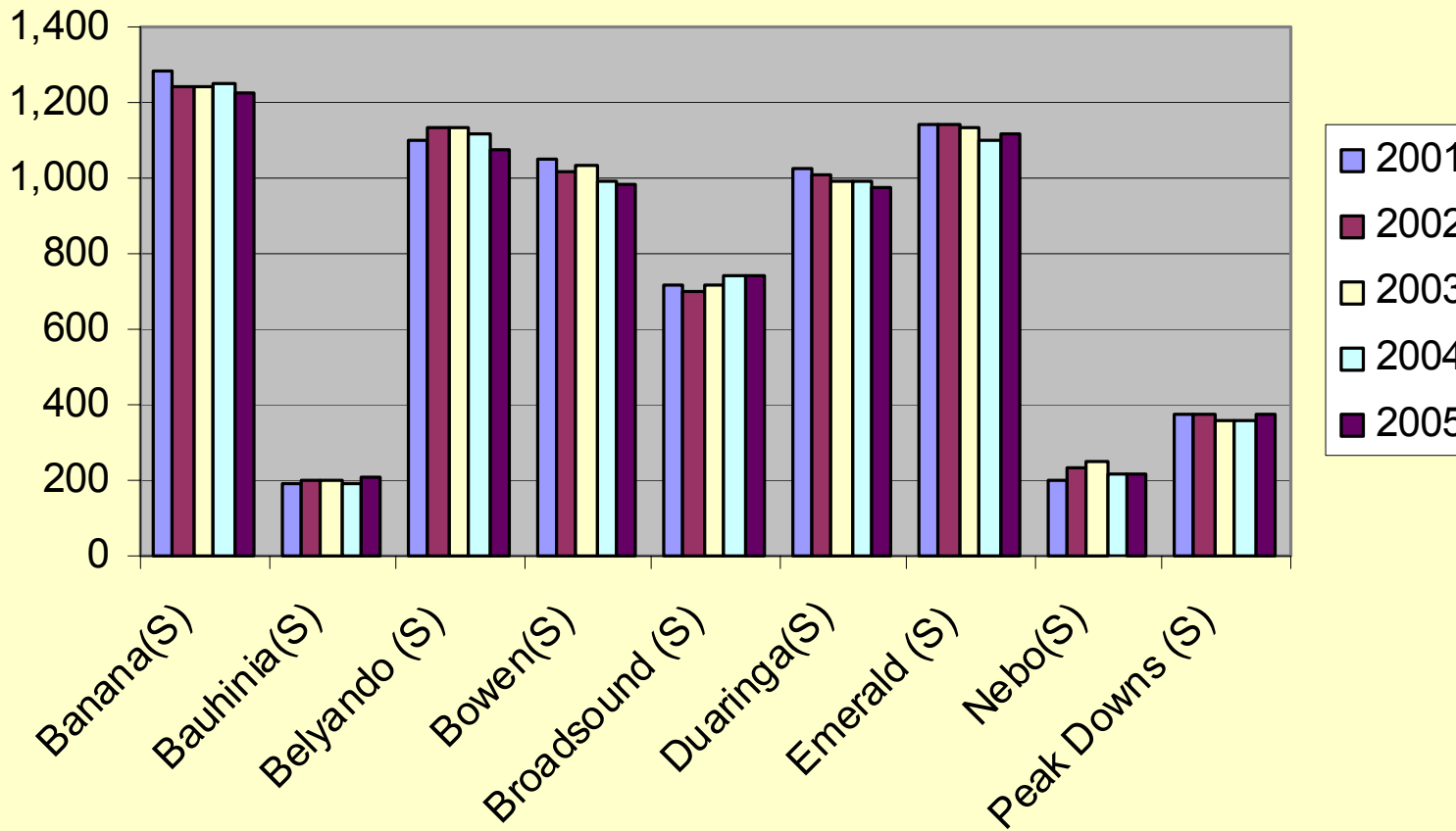
Graph 3: Changing age structure, Queensland



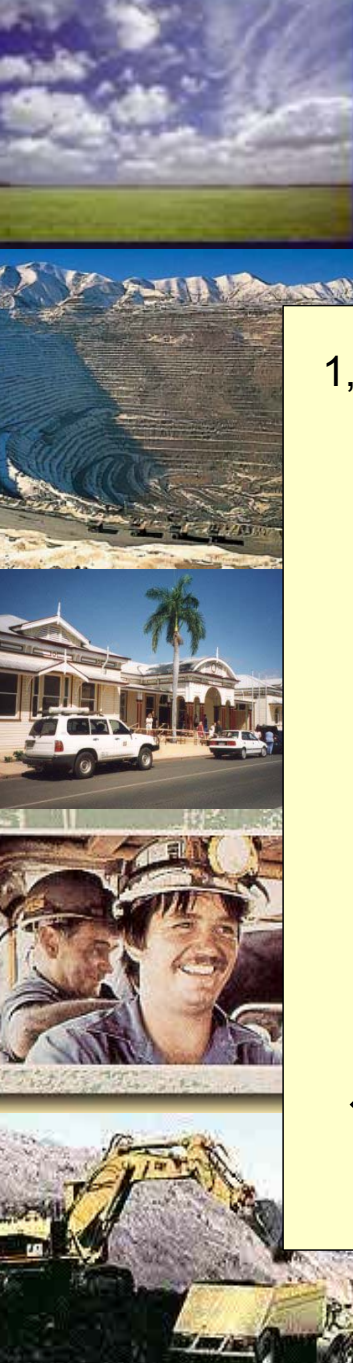
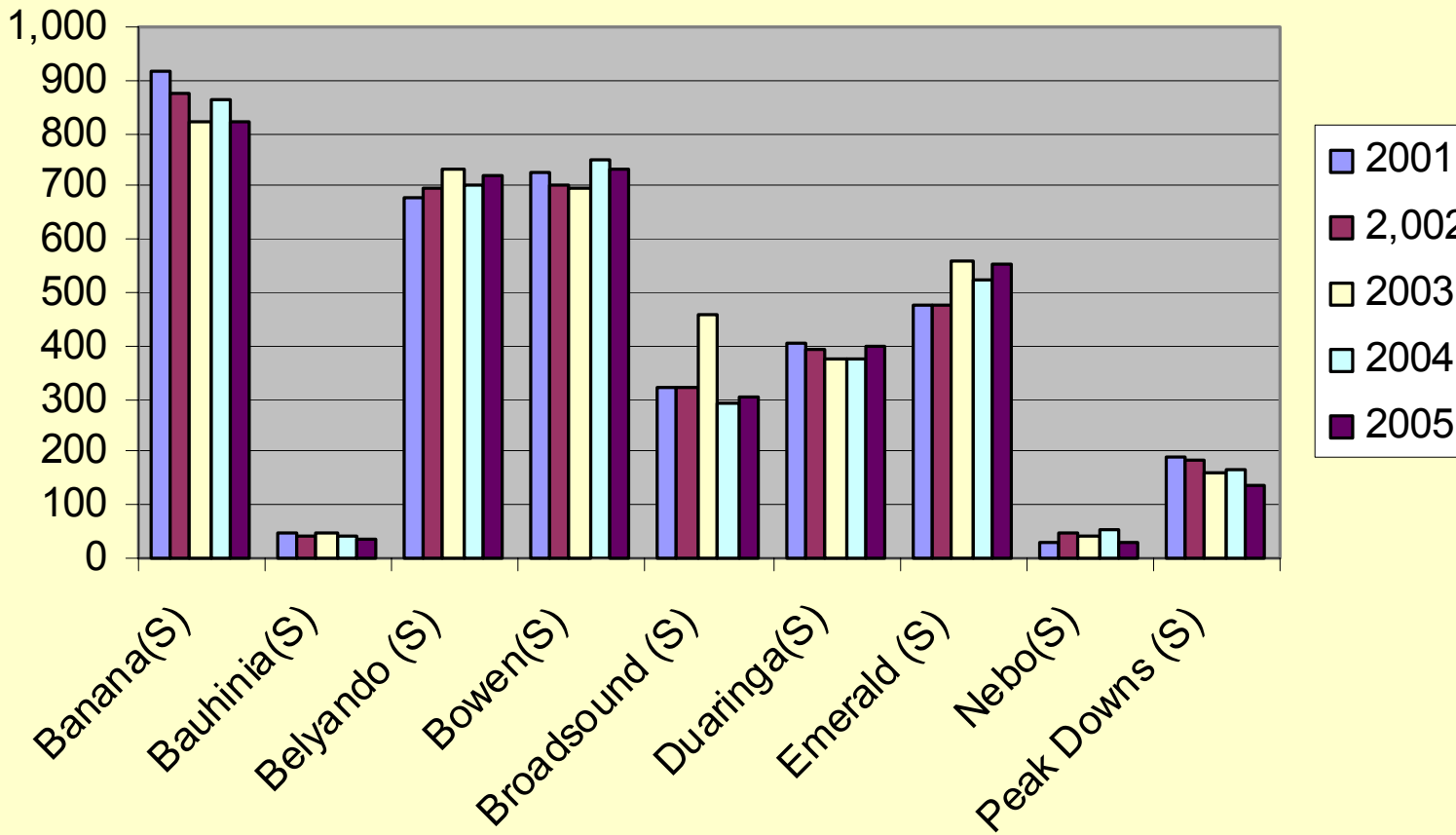
Bowen Basin Localities



Primary school enrolments - one indicator of recent change



Secondary school enrolments - one indicator of recent change

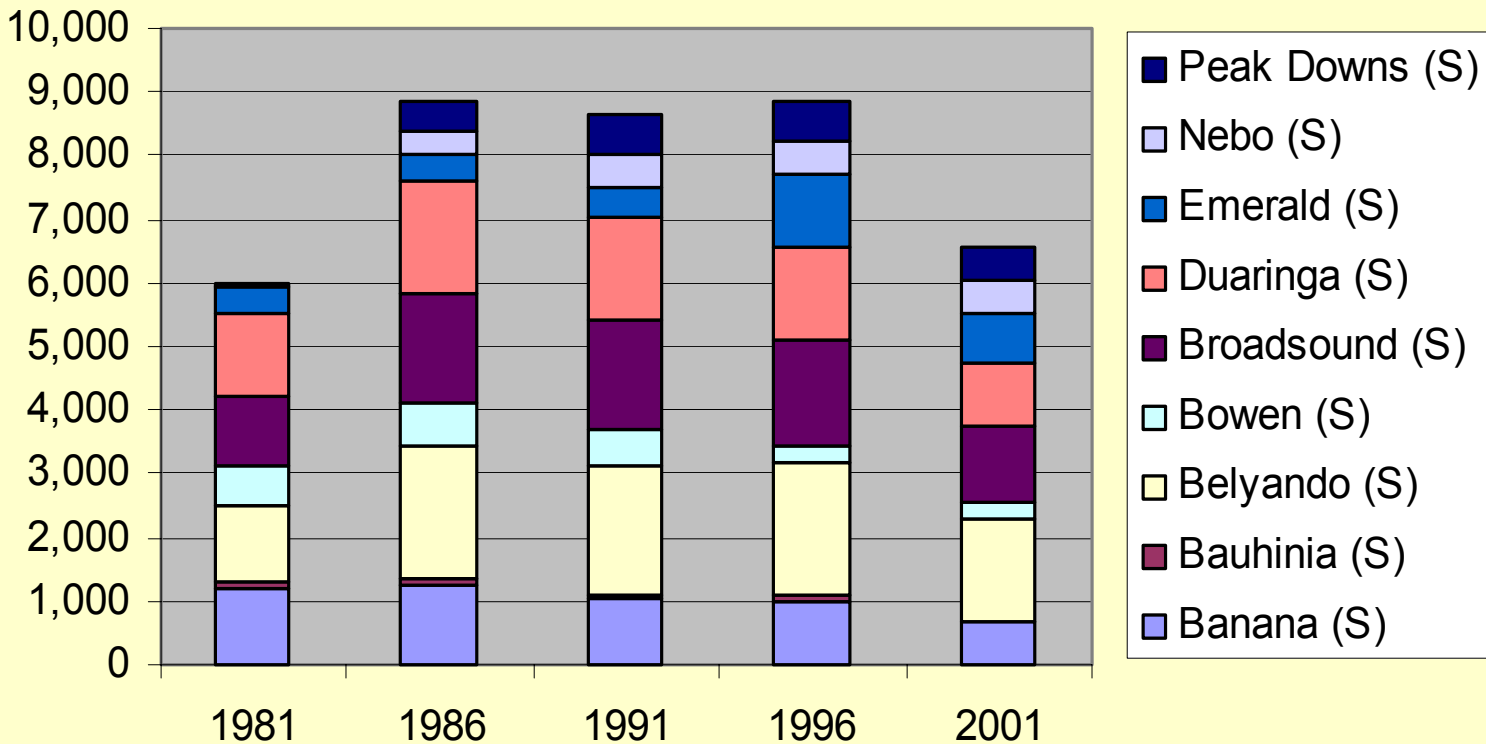


Mining industry workers by location on Census night

	1981	1986	1991	1996	2001
Banana (S)	1,173	1,260	1,051	1,005	657
Bauhinia (S)	130	87	64	106	45
Belyando (S)	1,220	2091	2012	2068	1591
Bow en (S)	589	651	575	279	267
Broadsound (S)	1,106	1,722	1,724	1,652	1,170
Duaringa (S)	1,280	1,779	1,591	1,468	1,032
Emerald (S)	434	429	504	1,149	735
Nebo (S)	6	390	474	521	544
Peak Dow ns (S)	66	464	631	616	542
Bow en Basin LGAs	6,004	8,873	8,626	8,864	6,538

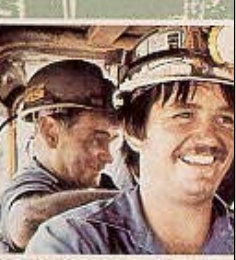
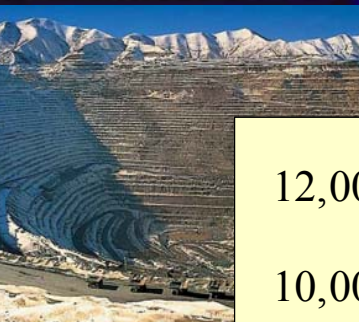
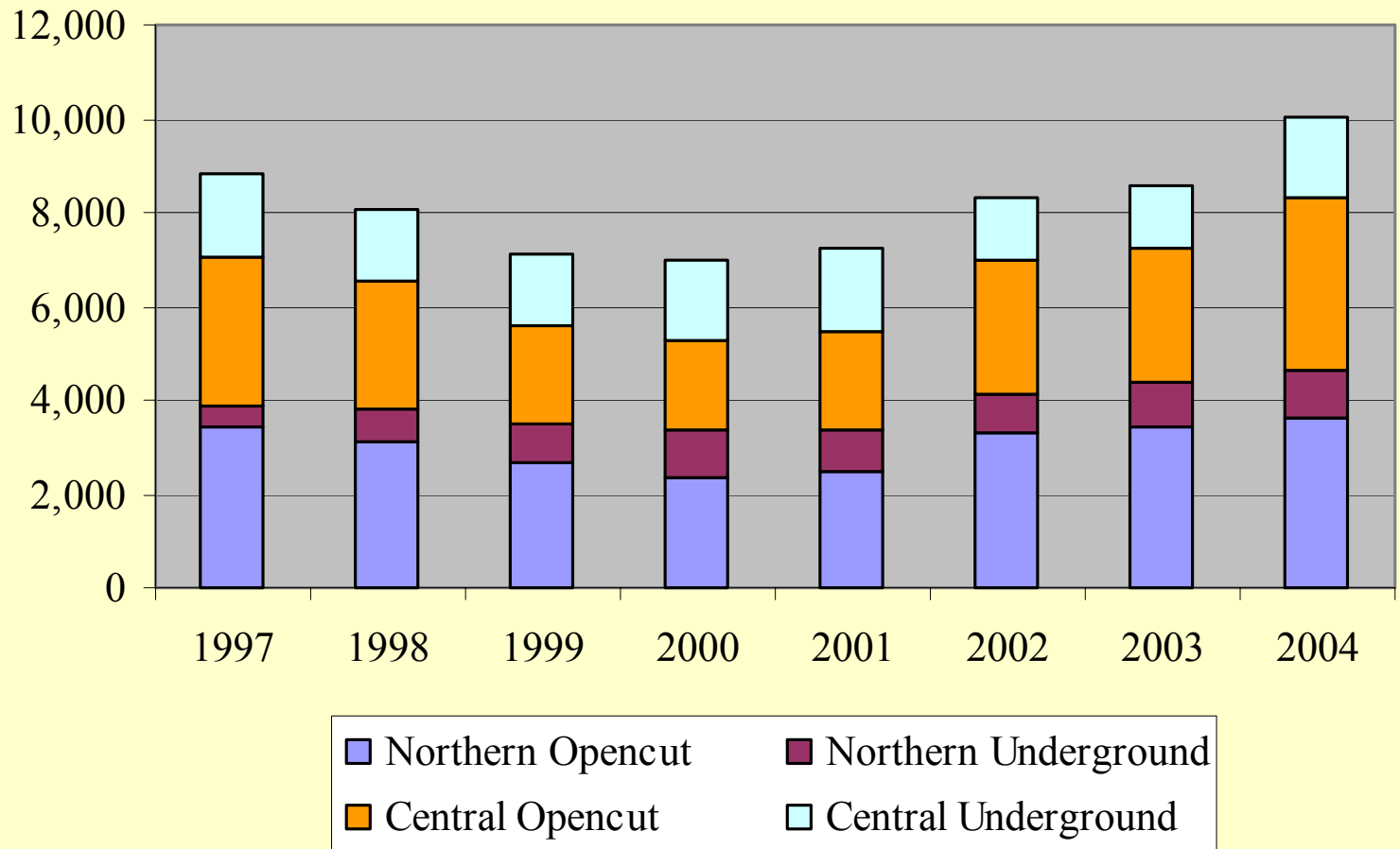
Source: ABS, Census of Population & Housing

Mining industry workers by location on Census night

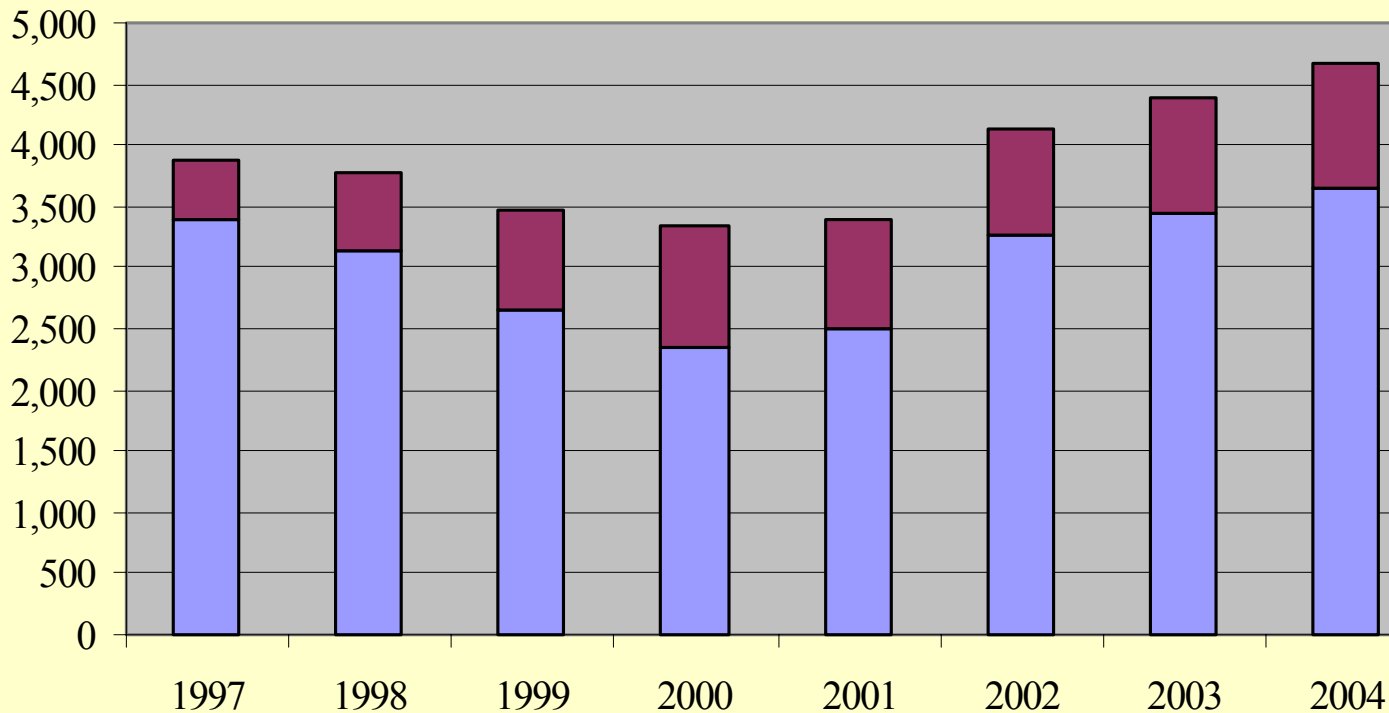


Source: ABS, Census of Population & Housing

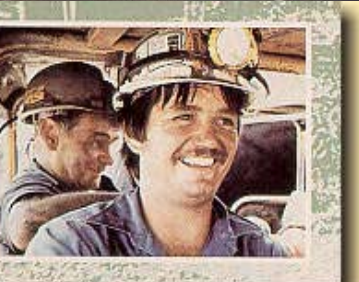
Changing coal industry employment, Bowen Basin Northern & Central Districts



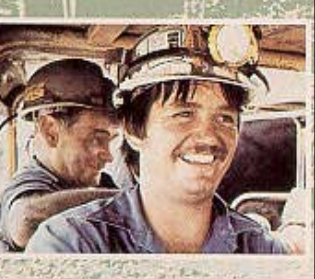
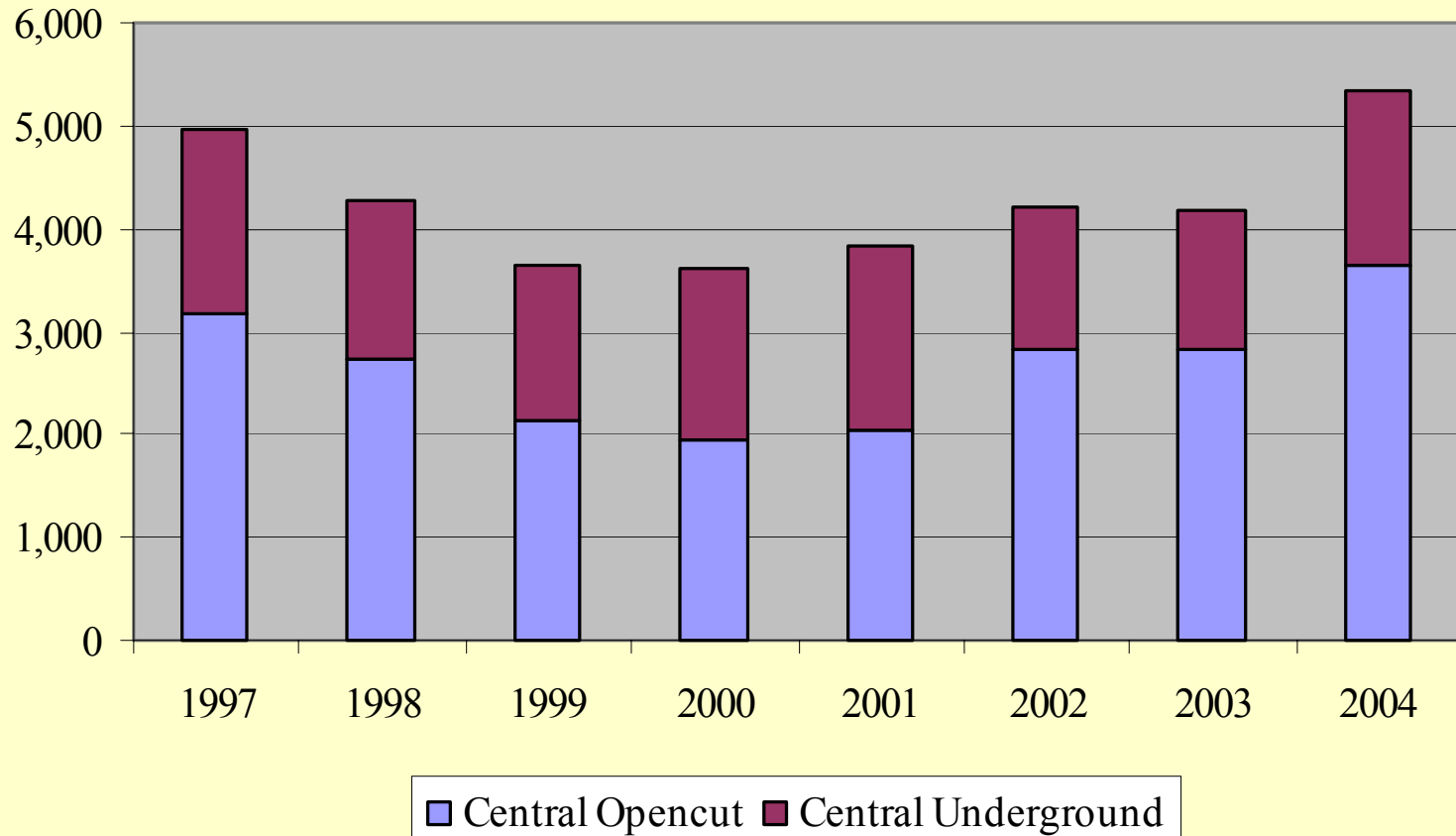
Coal industry employment estimates – Northern District



■ Northern Opencut ■ Northern Underground

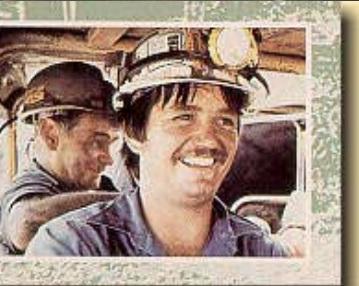


Coal industry employment estimates – Central District



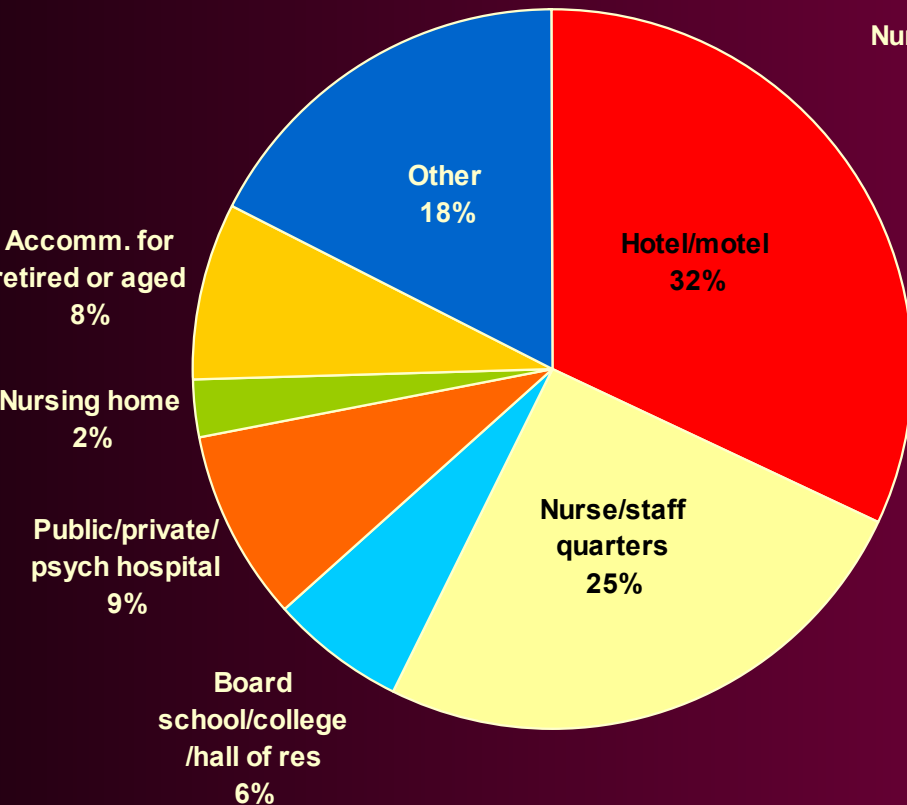
Socio-economic characteristics of Bowen Basin communities

- Housing
 - Lots of private rental
 - Many in non-private dwellings
- Comparatively well-off
- More clerical, sales & service jobs, plus professionals & managers
- Growth in services & trade industries
- 40% of Queensland's mining jobs, but are they residents?

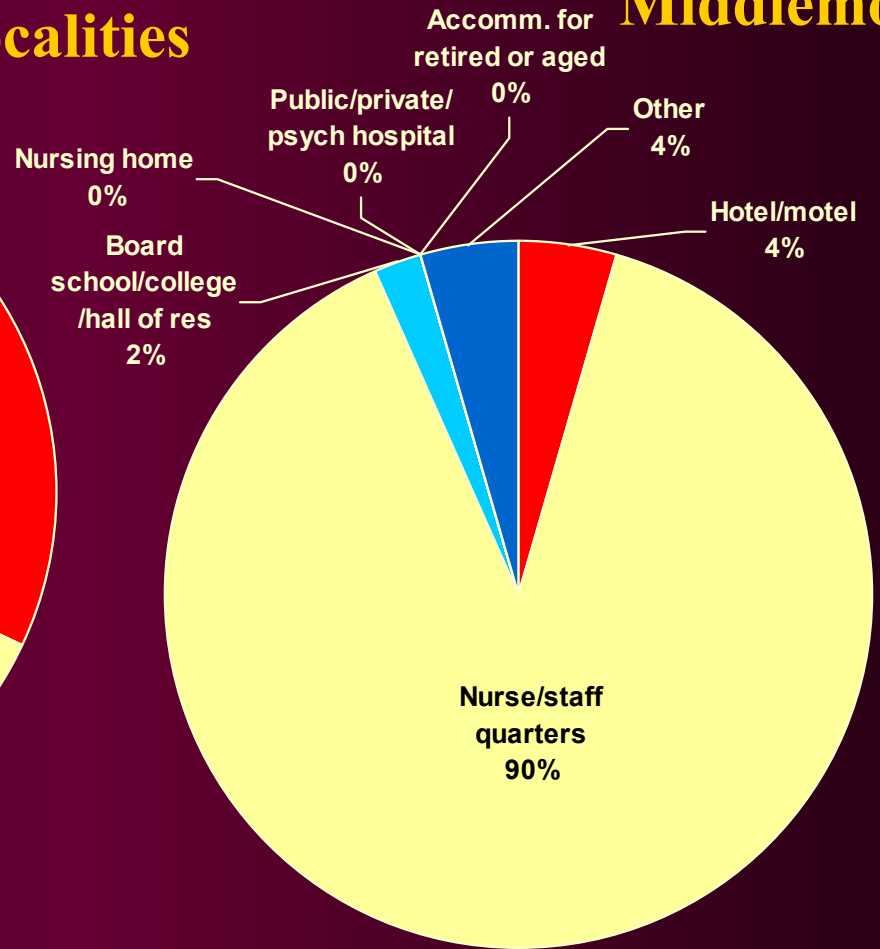


Persons in non-private dwellings 2001

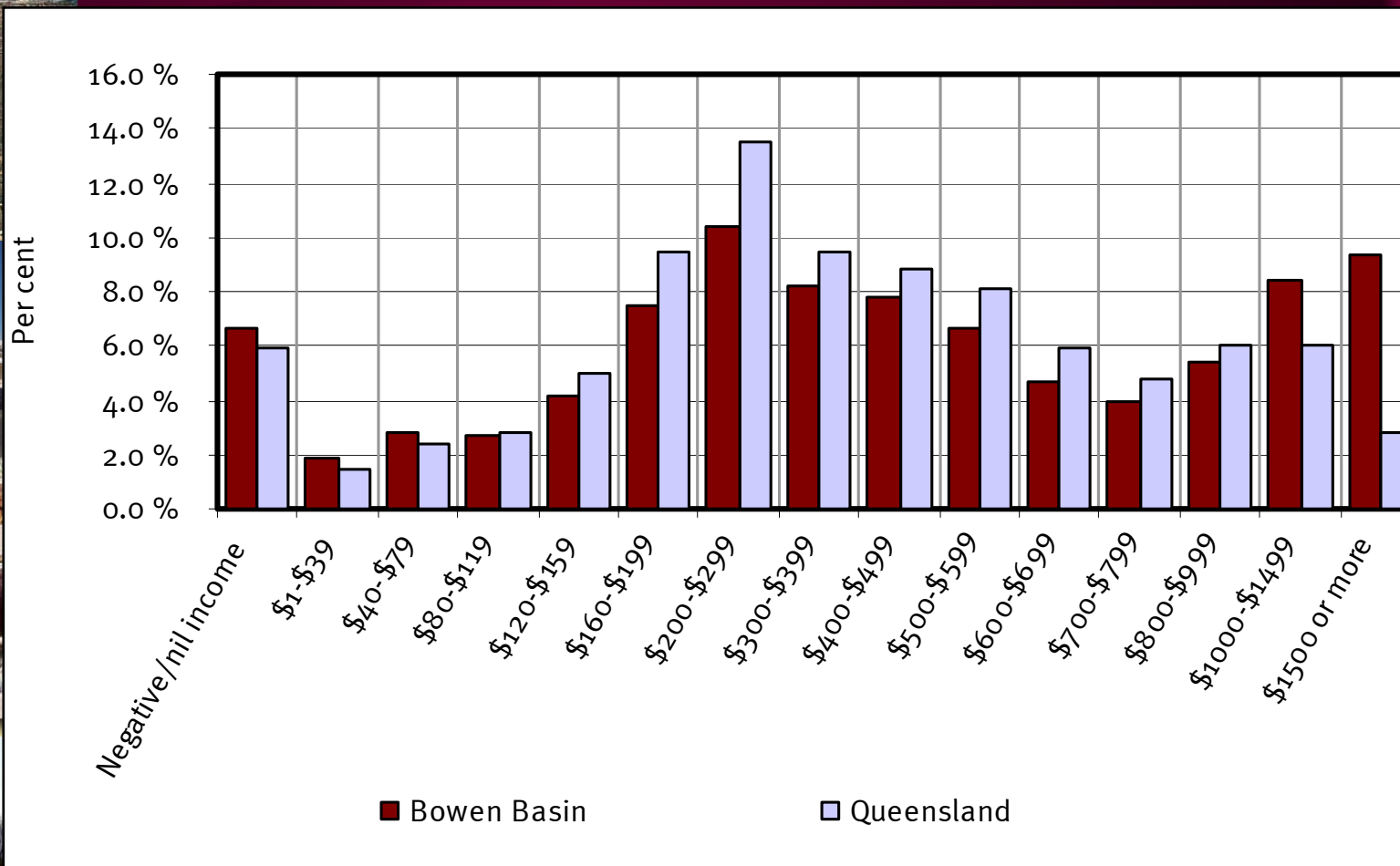
Bowen Basin Localities



Middlemound

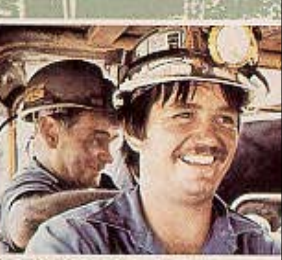


Distribution of weekly individual income, Bowen Basin Localities, 2001

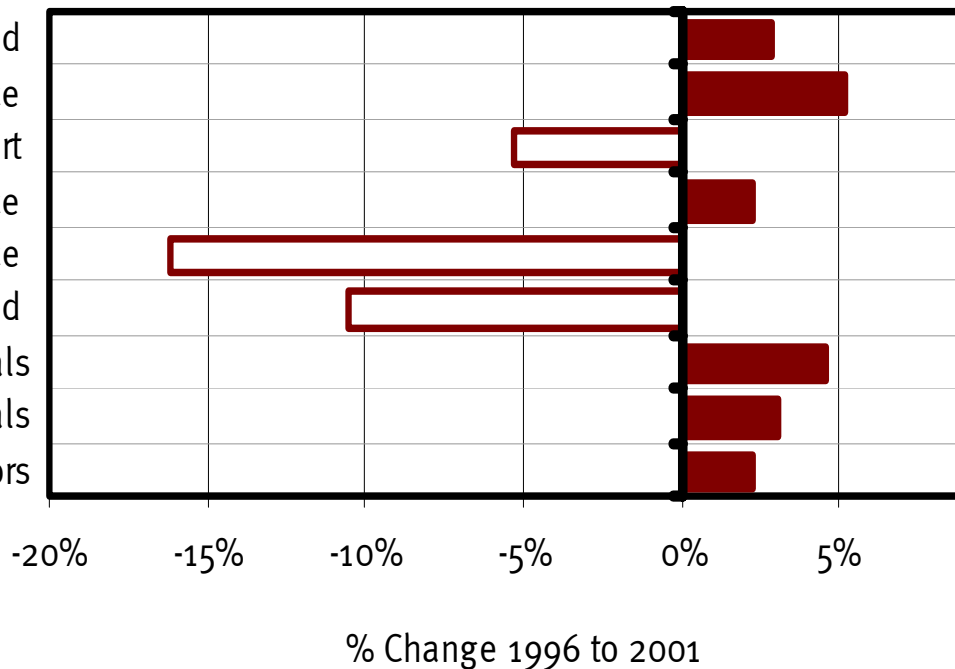


Source: ABS, Census of Population & Housing

Change in occupation 1996-2001, Bowen Basin Localities



Labourers & related
 Elementary clerical, sales & service
 Intermediate production & transport
 Intermediate clerical, sales & service
 Advanced clerical & service
 Tradespersons & related
 Associate professionals
 Professionals
 Managers & administrators

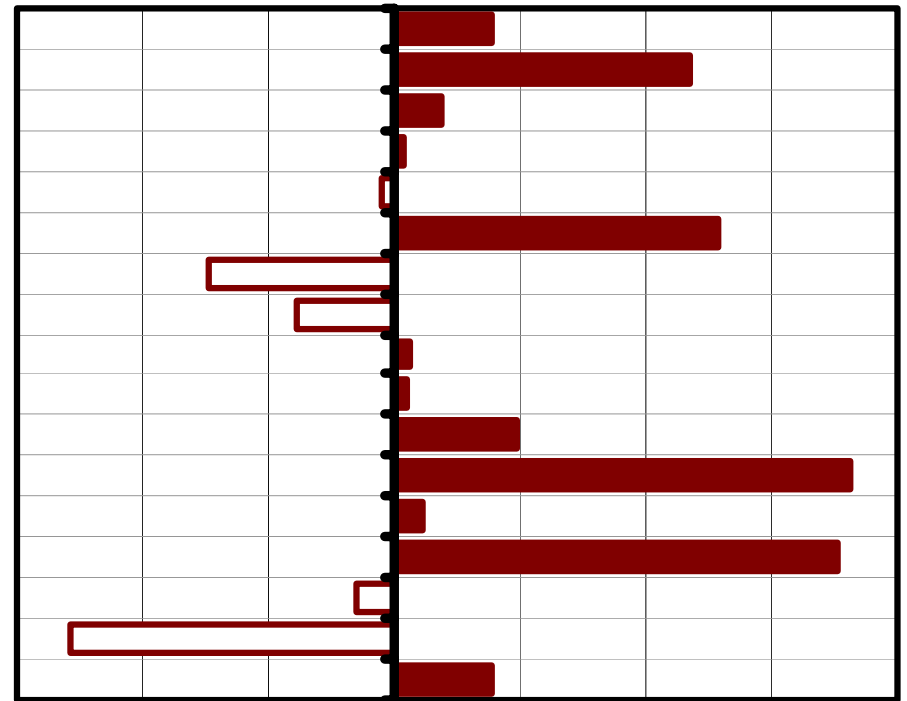


Source: ABS, Census of Population & Housing

Change in industry 1996-2001, Bowen Basin Localities



- Personal and other services
- Cultural and recreational services
- Health and community services
- Education
- Government administration and defence
- Property and business services
- Finance and insurance
- Communication services
- Transport and storage
- Accommodation, cafes and restaurants
- Retail trade
- Wholesale trade
- Construction
- Electricity, gas and water supply
- Manufacturing
- Mining
- Agriculture, forestry and fishing

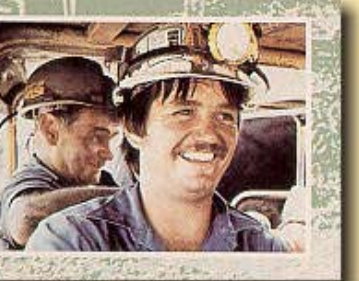


% Change 1996 to 2001

Journey to work analysis

In an area there are:

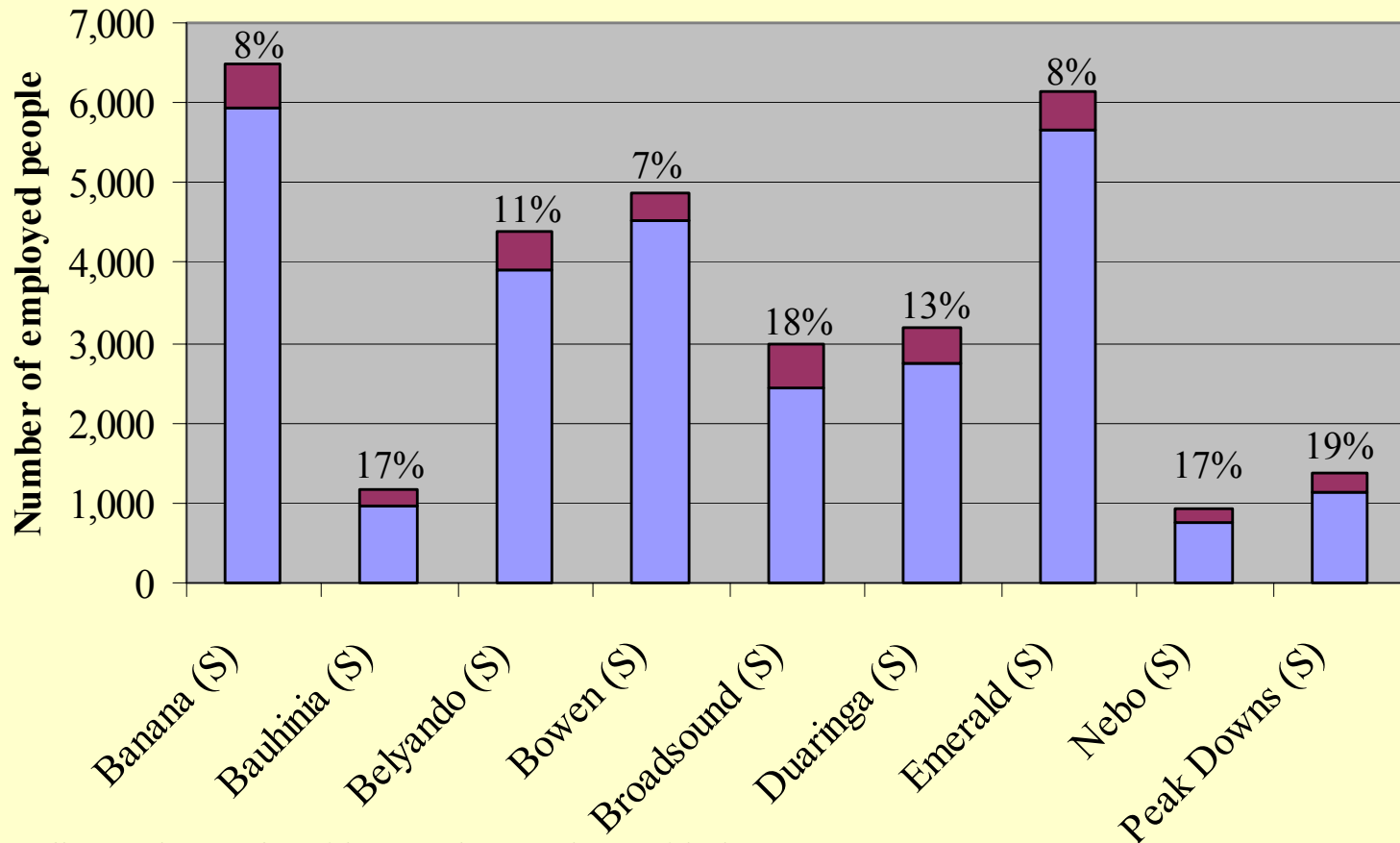
- A number of jobs occupied by workers who are either
 - residents or
 - from outside the area
- A number of workers who either work
 - In the area or
 - Outside the area



Journey to work patterns, 2001

	Total jobs	Employed Residents	Work in another LGA	
			No.	%
Banana (S)	6,611	6,479	537	8.3
Bauhinia (S)	1,219	1,173	205	17.0
Belyando (S)	4,673	4,408	501	11.4
Bowen (S)	5,233	4,862	316	6.5
Broadsound (S)	3,295	2,982	547	18.3
Duaringa (S)	3,862	3,180	424	13.3
Emerald (S)	6,701	6,149	503	8.2
Nebo (S)	1,652	927	159	17.2
Peak Downs (S)	1,590	1,378	256	18.6
Bowen Basin	34,836	31,538		

Where residents worked, 2001



% reflects share of residents who work outside home LGA

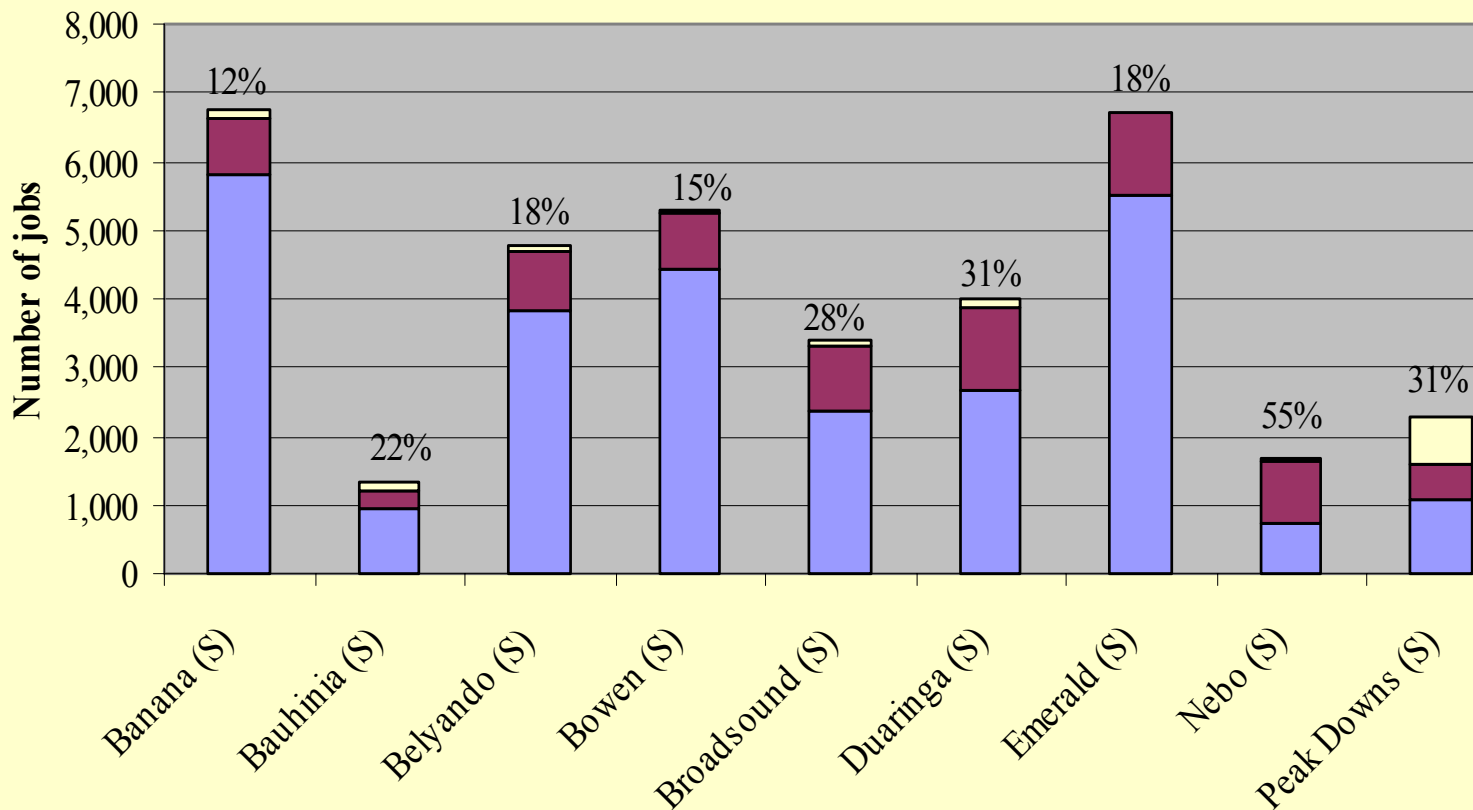
Work locally Work elsewhere



Jobs held by non-resident workers, 2001

	Total jobs	Employed Residents	Jobs held by non-residents	
			No.	%
Banana (S)	6,611	6,479	804	12.2
Bauhinia (S)	1,219	1,173	268	22.0
Belyando (S)	4,673	4,408	862	18.4
Bowen (S)	5,233	4,862	796	15.2
Broadsound (S)	3,295	2,982	929	28.2
Duaringa (S)	3,862	3,180	1,202	31.1
Emerald (S)	6,701	6,149	1,183	17.7
Nebo (S)	1,652	927	904	54.7
Peak Downs (S)	1,590	1,378	496	31.2
Bowen Basin	34,836	31,538		

Where workers live, 2001



% reflects share of local jobs held by non residents

■ Live in LGA
 ■ Live outside
 ■ NFA

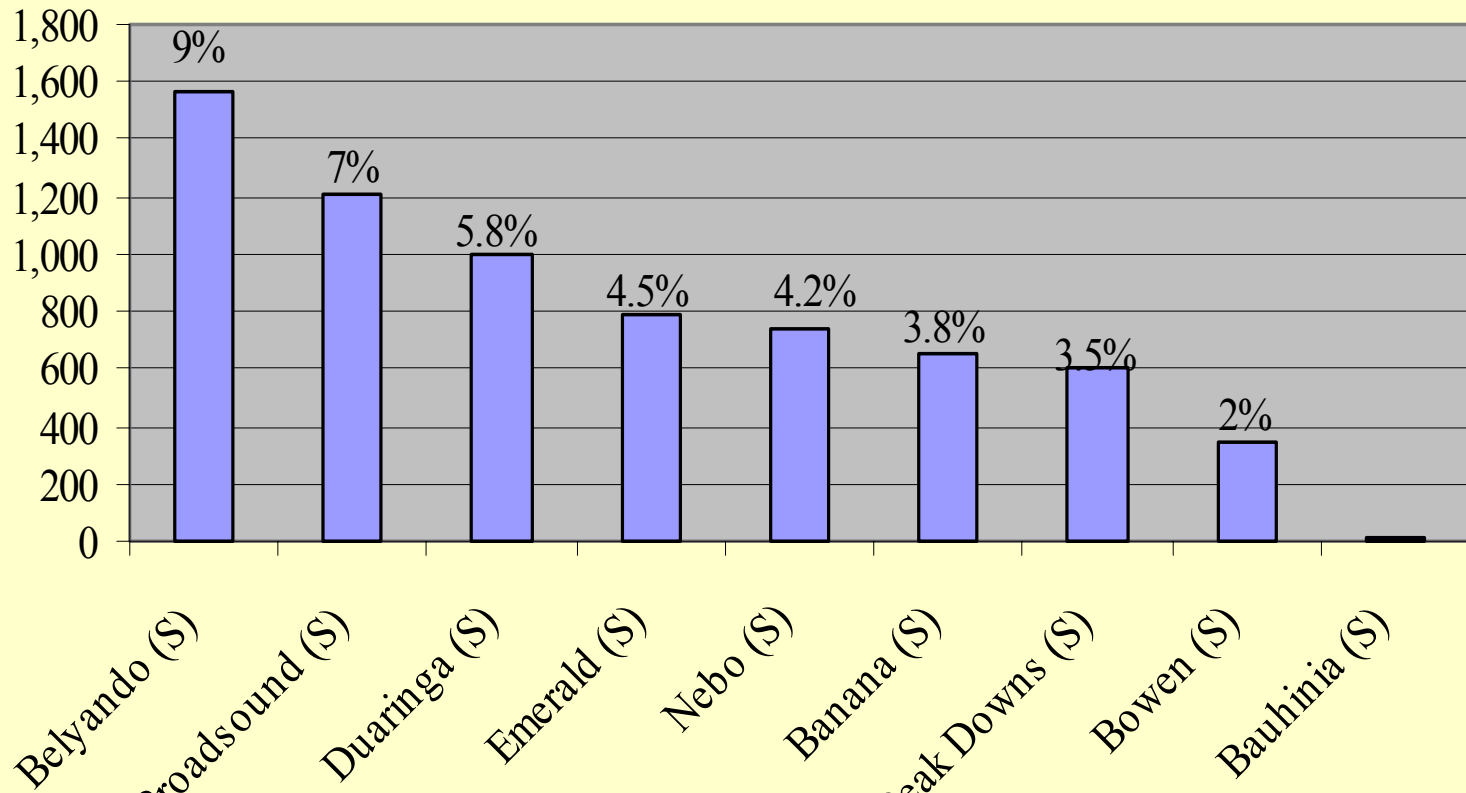
Jobs in the mining industry, 2001

- 25 LGAs in Queensland had more than 100 jobs in mining
- Top 20 LGAs each had more than 200 jobs in mining
- 8 of top 20 LGAs in Bowen Basin
- Total of 17,368 jobs in mining in Queensland
- 40% of mining jobs in Bowen Basin

LGA	No. of jobs
Brisbane (C)	2,200
Mt Isa (C)	2,140
Belyando (S)	1,560
Broadsound (S)	1,210
Duaringa (S)	1,000

Source: ABS, 2001 Census,
Customised matrix

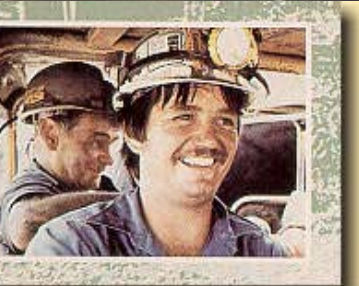
Jobs in the mining industry in Bowen Basin LGAs,



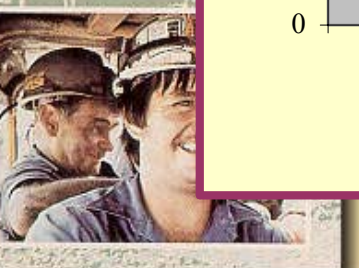
% reflects share of total mining industry jobs in Queensland

Emerald (S) journey to work patterns, 2001

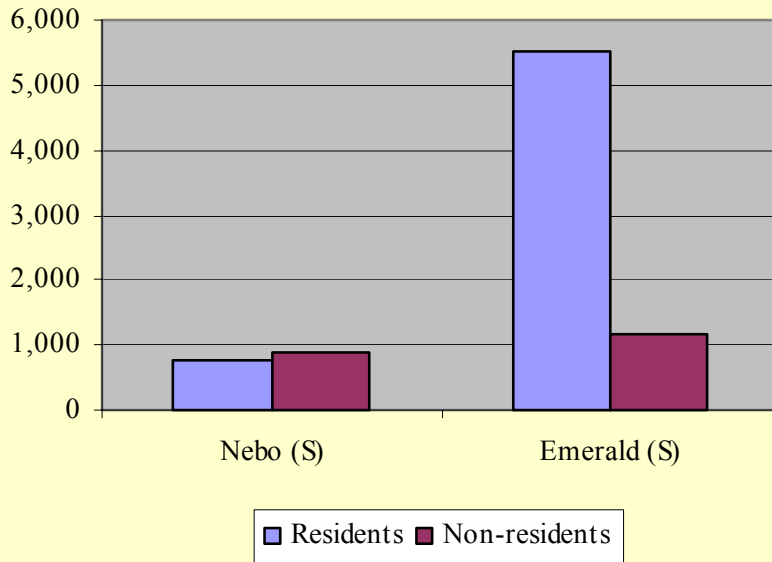
- 6,701 jobs in Shire, 6,149 employed residents
- 8% of employed residents worked outside the Shire (503 people)
- NFA-128, Peak Downs-112, Bauhinia-93, Duaringa-88, ---Brisbane-22, Mackay-13
- 18% of jobs filled by non-residents (1,183 people)
- Duaringa-149, Thuringowa-141 (Townsville-98), Peak Downs-133, Bauhinia-80
- Cooloola-55, Rocky-50, Livingstone-49, Brisbane-22



Nebo & Emerald – different functions

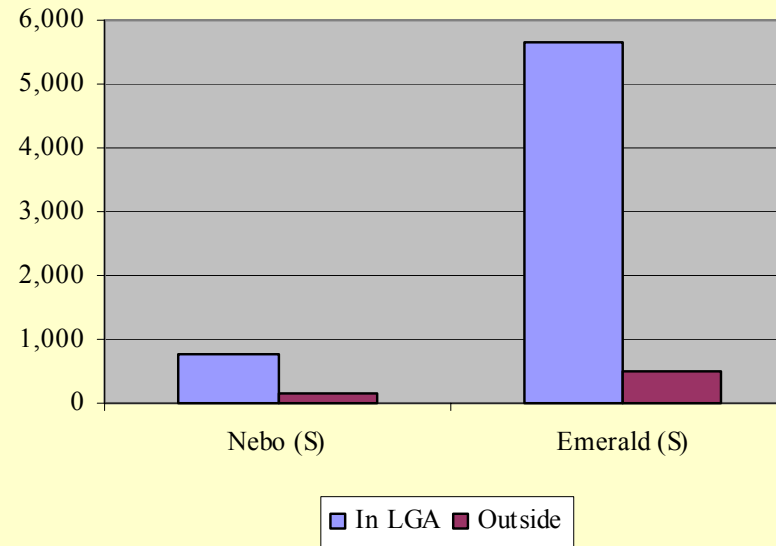


Local Jobs



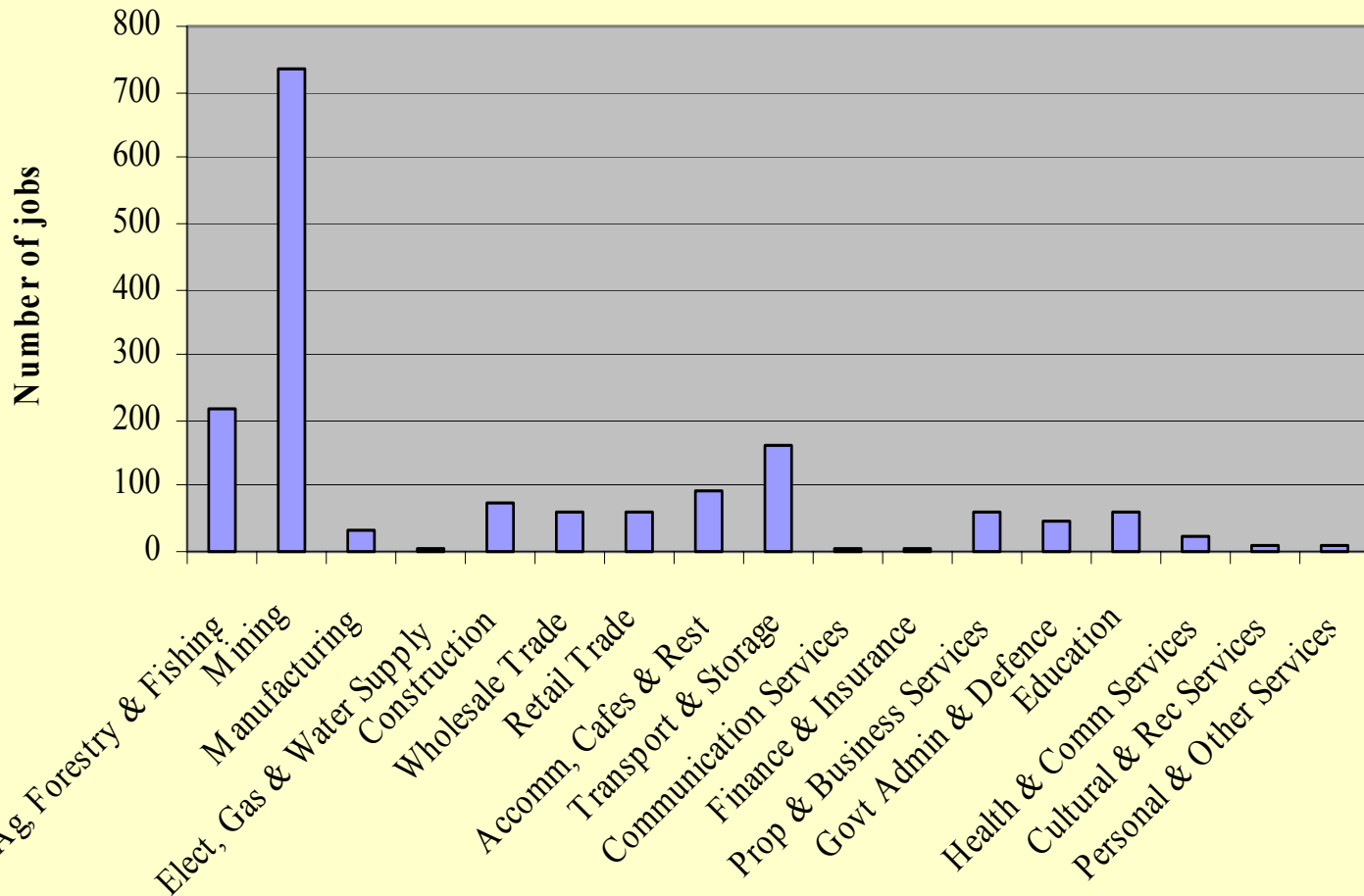
Nebo (S) imports workers from nearby Mackay (C)

Local Workers

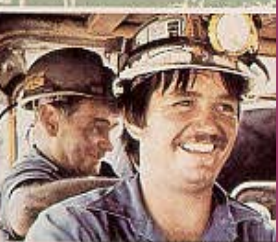


Emerald (S) is a service and accommodation centre

Nebo (S) industry structure, 2001



Emerald (S) industry structure, 2001



Number of jobs

