
Appendix B. QPRC Area Economic Impact Model

Queanbeyan-Palerang Regional Council area

Economic impact model

Industry: Building Construction
Impact modeled: ADDITION of \$70.0 million sales
Company name: Head Office

Impact Summary

Queanbeyan-Palerang Regional Council area - Modelling the effect of adding \$70.0m sales in Building Construction - Inflation adjusted

Summary	Output (\$m)	Value-added (\$m)	Local jobs	Residents jobs
Starting position Queanbeyan-Palerang Regional Council area (year ended June 2018)	--	--	--	--
Building Construction	137.71	34.22	603	875
All industries	3,790.38	1,654.62	17,857	34,462
Impacts on Queanbeyan-Palerang Regional Council area economy	--	--	--	--
Direct impact on Building Construction sector	70.00	17.40	307	--
Industrial impact	52.68	19.19	295	--
Consumption impact	5.56	2.51	34	--
Total impact on Queanbeyan-Palerang Regional Council area economy	128.24	39.10	635	388
▪ Type 1 multiplier (direct & industrial)	1.75	2.10	1.96	--
Type 2 multiplier (direct, industrial & consumption)	1.83	2.25	2.07	--
Impact on NSW economy	--	--	--	--
Total impact - NSW outside Queanbeyan-Palerang Regional Council area	50.35	22.76	178	238
Total impact NSW economy	178.58	61.86	813	626
Impact on Australian economy	--	--	--	--
Total impact outside NSW economy	52.29	23.02	240	473
Total impact on Australian economy	230.87	84.88	1,053	1,099

Source: [National Institute of Economic and Industry Research \(NIEIR\)](#) ©2019. Compiled and presented in economy.id by [.id](#), the population experts. *Note: All \$ values are expressed in 2016/17 base year dollar terms*

Impact on Output

The direct addition of \$70.0 million annual output in the Building Construction sector of the Queanbeyan-Palerang Regional Council area economy would lead to an increase in indirect demand for intermediate goods and services across related industry sectors. These indirect industrial impacts (Type 1) are estimated to be an additional \$52.68m in Output, representing a Type 1 Output multiplier of 1.75.

There would be an additional contribution to the Queanbeyan-Palerang Regional Council area economy through consumption effects as correspondingly more wages and salaries are spent in the local economy. It is estimated that this would result in a further increase in Output of \$5.56m .

The combination of all direct, industrial and consumption effects would result in total estimated rise in Output of \$128.24m in the Queanbeyan-Palerang Regional Council area economy, representing a Type 2 Output multiplier of 1.83.

These impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy to the tune of \$102.63m in Output.

The combined effect of economic multipliers in the Queanbeyan-Palerang Regional Council area and the wider Australian economy is estimated to be \$230.87m added to Australia's Output.

Impact on Local Employment (jobs)

The direct addition of \$70.0 million annual output in the Building Construction sector of the Queanbeyan-Palerang Regional Council area economy is estimated to lead to a corresponding direct addition of 307 jobs in the local Building Construction sector. From this direct expansion in the economy it is anticipated that there would be flow on effects into other related intermediate industries, creating an additional 295 jobs. This represents a Type 1 Employment multiplier of 1.96.

This addition of jobs in the local economy would lead to a corresponding increase in wages and salaries, a proportion of which would be spent on local goods and services, creating a further 34 jobs through consumption impacts.

The combination of all direct, industrial and consumption effects would result in a total estimated increase of 635 jobs located in the Queanbeyan-Palerang Regional Council area. This represents a Type 2 Employment multiplier of 2.07.

Employment impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy creating a further 418 jobs.

The combined effect of economic multipliers in the Queanbeyan-Palerang Regional Council area and the wider Australian economy is estimated to be an addition of 1,053 jobs.

Impact on value added

The direct addition of \$70.0 million annual output in the Building Construction sector of the Queanbeyan-Palerang Regional Council area economy would lead to a corresponding direct increase in value added of \$17.40m. A further \$19.19m in value added would be generated from related intermediate industries. These indirect industrial impacts represent a Type 1 value added multiplier of 2.10.

There would be an additional contribution to the Queanbeyan-Palerang Regional Council area economy through consumption effects as correspondingly more wages and salaries are spent in the local economy. It is estimated that this would result in a further increase in value added of \$2.51m.

The combination of all direct, industrial and consumption effects would result in an estimated addition in value added of \$39.10m in the Queanbeyan-Palerang Regional Council area economy, representing a Type 2 value added multiplier of 2.25.

These impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy to the tune of \$45.78m in value added.

The combined effect of economic multipliers in the Queanbeyan-Palerang Regional Council area and the wider Australian economy is estimated to be \$84.88m added to Australia's value added.

Impact on GRP

Value added by industry represents the industry component of Gross Regional Product (GRP). The impact on the Queanbeyan-Palerang Regional Council area's GRP as a result of this change to the economy is directly equivalent to the change in value added outlined in the section above.

In summary, GRP in the Queanbeyan-Palerang Regional Council area is estimated to increase by \$39.10m.

The effect on the Australian economy (including Queanbeyan-Palerang Regional Council area) is estimated to be a growth in Gross Domestic Product (GDP) of \$84.88m.

Impact on employment by industry sector

This table shows a detailed breakdown of how employment will be affected by the addition of \$70.0 million annual output in the Building Construction sector of the Queanbeyan-Palerang Regional Council area economy. This includes both the direct industrial impact (Type 1) and ongoing consumption impact (Type 2).

Employment by industry sector

Queanbeyan-Palerang Regional Council area - Impact of \$70.0 million new sales in 'Building Construction' output (Type 1 & 2 combined impact)

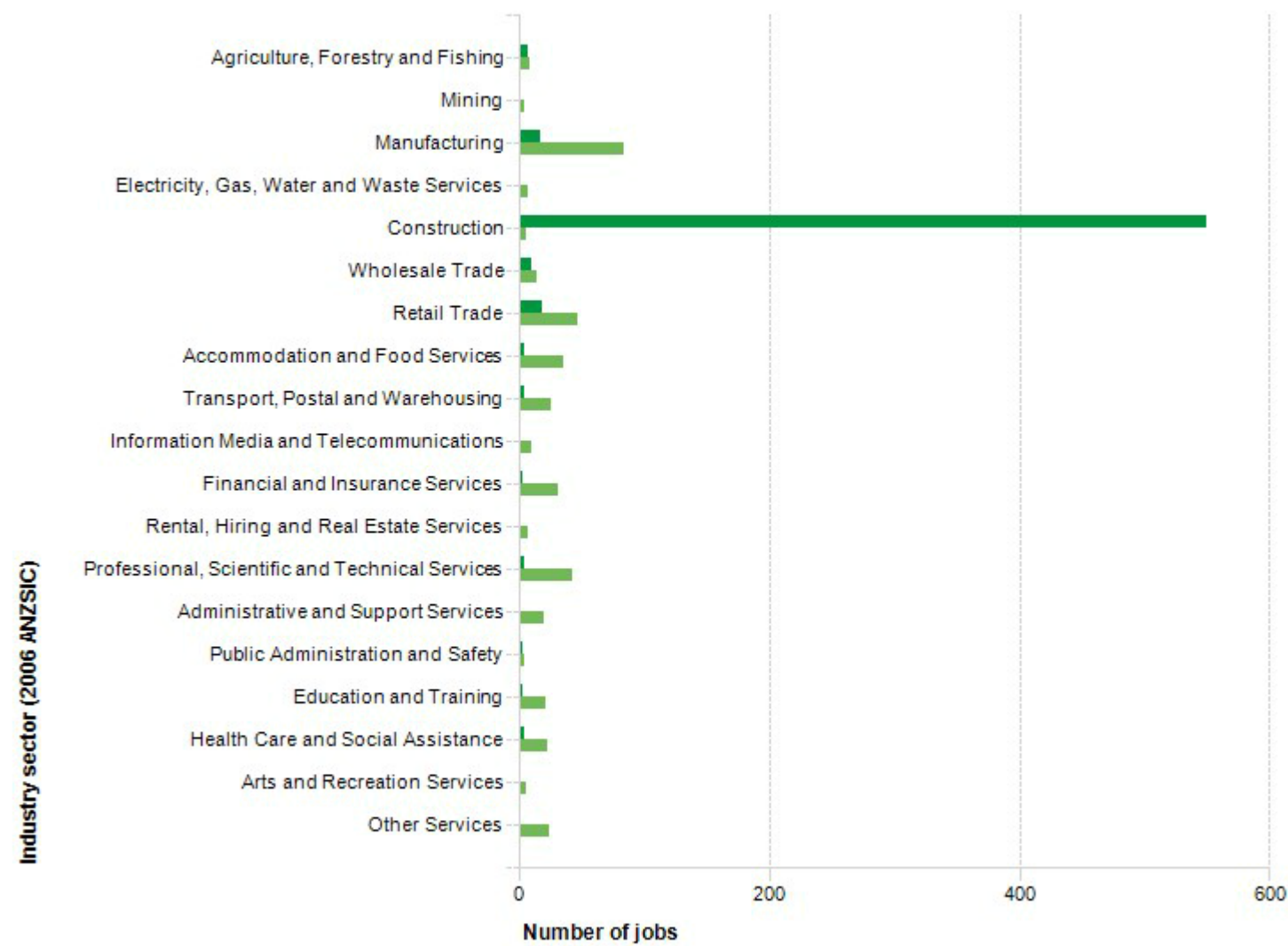
Industry sectors (1-digit ANSIC)	Employment impacts			
	Existing jobs in the Queanbeyan-Palerang Regional Council area*	Jobs created in the Queanbeyan-Palerang Regional Council area	Jobs created outside of the Queanbeyan-Palerang Regional Council area	Jobs created for Queanbeyan-Palerang Regional Council area residents
Agriculture, Forestry and Fishing	607	6	8	7
Mining	142	1	4	1
Manufacturing	1,926	18	83	15
Electricity, Gas, Water and Waste Services	277	2	7	1
Construction	3,080	550	5	324
Wholesale Trade	350	9	14	5
Retail Trade	1,743	19	47	14
Accommodation and Food Services	1,357	5	35	4
Transport, Postal and Warehousing	608	4	25	3
Information Media and Telecommunications	111	0	10	0
Financial and Insurance Services	131	3	31	3
Rental, Hiring and Real Estate Services	285	0	7	0
Professional, Scientific and Technical Services	810	4	43	3
Administrative and Support Services	430	2	20	1
Public Administration and Safety	1,952	2	4	1
Education and Training	1,171	3	21	2
Health Care and Social Assistance	1,855	4	23	3
Arts and Recreation Services	217	1	6	1
Other Services	806	1	25	1
Total Industries	17,857	635	418	388

Source: [National Institute of Economic and Industry Research \(NIEIR\)](#) ©2019. Compiled and presented in economy.id by [.id](#) The population experts

Employment by industry sector

Impact of \$70.0 million new sales in Building Construction sector

■ Jobs created in Queanbeyan-Palerang Regional Council area ■ Jobs created outside Queanbeyan-P...



Source: National Institute of Economic and Industry Research (NIEIR) ©2019
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Resident employment impacts

The combination of all direct, industrial and consumption effects of adding \$70.0 million annual output to the Building Construction sector of the Queanbeyan-Palerang Regional Council area economy would be an estimated increase of 388 jobs located in the Queanbeyan-Palerang Regional Council area and 711 jobs located outside the Queanbeyan-Palerang Regional Council area – a total of 1,099 jobs.

As some of the Queanbeyan-Palerang Regional Council area’s residents leave the area to work and residents of other areas enter the Queanbeyan-Palerang Regional Council area to work, not all of these jobs will be filled by Queanbeyan-Palerang Regional Council area residents. It is estimated that of the 1,099 jobs created, 388 or 35.3% would be expected to be filled by Queanbeyan-Palerang Regional Council area residents.

Industry employment impacts

The combination of all direct, industrial and consumption effects of adding \$70.0 million annual output to the Building Construction sector of the Queanbeyan-Palerang Regional Council area economy would result in an estimated increase of 635 jobs located in the Queanbeyan-Palerang Regional Council area.

Of the 635 jobs created within the Queanbeyan-Palerang Regional Council area, 550, or 86.6% would be added within Construction the sector. This includes the direct jobs created in the sector, and the effect of flow-on jobs within the same sector.

The largest increase in jobs outside Construction would be in Retail Trade (19), Manufacturing (18) and Wholesale Trade (9).

A total of 418 jobs are estimated to be created outside the Queanbeyan-Palerang Regional Council area, with the largest number being in Manufacturing (83) Retail Trade (47) and Professional, Scientific and Technical Services (43).

Impact on value added by industry sector

This table shows a detailed breakdown of how adding \$70.0 million annual output in the Building Construction sector of the Queanbeyan-Palerang Regional Council area economy will impact on the value added of each industry sector. This highlights the relationships between industry. This includes both the direct industrial impact (Type 1) and ongoing consumption impact (Type 2).

Value-added by industry

Queanbeyan-Palerang Regional Council area - Impact of \$70.0 million new sales in 'Building Construction' output (Type 1 & 2 combined impact)		Value added 2017-18 (\$m constant prices)	
Industry sectors (1-digit ANSIC)	Value-added to the Queanbeyan-Palerang Regional Council area	Percentage change	Value-added to Australian economy
Agriculture, Forestry and Fishing	\$0.38	0.7%	\$1.51
Mining	\$0.37	0.6%	\$1.51
Manufacturing	\$1.65	1.1%	\$8.45
Electricity, Gas, Water and Waste Services	\$0.35	1.1%	\$2.16
Construction	\$30.48	15.6%	\$31.03
Wholesale Trade	\$1.19	2.6%	\$3.83
Retail Trade	\$1.11	1.1%	\$4.04
Accommodation and Food Services	\$0.22	0.4%	\$1.87
Transport, Postal and Warehousing	\$0.72	0.9%	\$3.66
Information Media and Telecommunications	\$0.02	0.1%	\$2.32
Financial and Insurance Services	\$0.46	1.3%	\$7.55
Rental, Hiring and Real Estate Services	\$0.09	0.2%	\$1.46
Professional, Scientific and Technical Services	\$0.77	0.5%	\$6.28
Administrative and Support Services	\$0.38	1.1%	\$2.76
Public Administration and Safety	\$0.27	0.1%	\$0.69
Education and Training	\$0.19	0.2%	\$1.57
Health Care and Social Assistance	\$0.26	0.2%	\$2.10
Arts and Recreation Services	\$0.10	0.5%	\$0.47
Other Services	\$0.07	0.2%	\$1.60
Total Industries	\$39.10	2.4%	\$84.87

The combination of all direct, industrial and consumption effects of adding \$70.0 million annual output to the Building Construction sector of the Queanbeyan-Palerang Regional Council area economy would result in an estimated increase in value added of \$39.10m in the Queanbeyan-Palerang Regional Council area economy.

The Construction sector of the economy is estimated to increase in value added by 15.6%, with the total Queanbeyan-Palerang Regional Council area economy estimated to grow by 2.4%.

The main impacts in value added within Queanbeyan-Palerang Regional Council area, outside of Construction, are in Manufacturing (1.65m), Wholesale Trade (1.19m) and Retail Trade (1.11m).

Queanbeyan-Palerang Regional Council area

Economic impact model

Industry: Public Administration and Safety
Impact modeled: ADDITION of 160 jobs
Company name: Head Office

Impact Summary

Queanbeyan-Palerang Regional Council area - Modelling the effect of adding 160 jobs in Public Administration and Safety - Inflation adjusted

Summary	Output (\$m)	Value-added (\$m)	Local jobs	Residents jobs
Starting position Queanbeyan-Palerang Regional Council area (year ended June 2018)	--	--	--	--
Public Administration and Safety	475.34	299.38	1,952	9,306
All industries	3,790.38	1,654.62	17,857	34,462
Impacts on Queanbeyan-Palerang Regional Council area economy	--	--	--	--
Direct impact on Public Administration and Safety sector	38.96	24.54	160	--
Industrial impact	9.51	3.90	42	--
Consumption impact	3.43	1.55	21	--
Total impact on Queanbeyan-Palerang Regional Council area economy	51.90	29.99	222	115
▪ Type 1 multiplier (direct & industrial)	1.24	1.16	1.26	--
Type 2 multiplier (direct, industrial & consumption)	1.33	1.22	1.39	--
Impact on NSW economy	--	--	--	--
Total impact - NSW outside Queanbeyan-Palerang Regional Council area	19.65	9.25	71	88
Total impact NSW economy	71.55	39.24	294	203
Impact on Australian economy	--	--	--	--
Total impact outside NSW economy	21.47	9.44	109	199
Total impact on Australian economy	93.02	48.69	403	402

Source: [National Institute of Economic and Industry Research \(NIEIR\)](#) ©2019. Compiled and presented in economy.id by [.id](#), the population experts. *Note: All \$ values are expressed in 2016/17 base year dollar terms.*

Impact on Output

The direct addition of 160 jobs in the Public Administration and Safety sector of the Queanbeyan-Palerang Regional Council area economy is estimated to lead to a corresponding direct addition of \$38.96m in Output from the local Public Administration and Safety sector. From this direct expansion in the economy it is anticipated that there would be a flow on effects into other related intermediate industries, creating a further increase of \$9.51m in Output. This represents a Type 1 employment multiplier of 1.24.

There would be an additional contribution to the Queanbeyan-Palerang Regional Council area economy through consumption effects as correspondingly more wages and salaries are spent in the local economy. It is estimated that this would result in a further increase in Output of \$3.43m .

The combination of all direct, industrial and consumption effects would result in total estimated rise in Output of \$51.90m in the Queanbeyan-Palerang Regional Council area economy, representing a Type 2 Output multiplier of 1.33.

These impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy to the tune of \$41.12m in Output.

The combined effect of economic multipliers in the Queanbeyan-Palerang Regional Council area and the wider Australian economy is estimated to be \$93.02m added to Australia's Output.

Impact on Local Employment (jobs)

The direct addition of 160 jobs in the Public Administration and Safety sector of the the Queanbeyan-Palerang Regional Council area economy would lead to a further increase in indirect demand for intermediate good and services across related industry sectors. These indirect industrial impacts (Type 1) are estimated to result in an additional 42 jobs, representing Type 1 Employment multiplier of 1.26.

This addition of jobs in the local economy would lead to a corresponding increase in wages and salaries, a proportion of which would be spent on local goods and services, creating a further 21 jobs through consumption impacts.

The combination of all direct, industrial and consumption effects would result in a total estimated increase of 222 jobs located in the Queanbeyan-Palerang Regional Council area. This represents a Type 2 Employment multiplier of 1.39.

Employment impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy creating a further 181 jobs.

The combined effect of economic multipliers in the Queanbeyan-Palerang Regional Council area and the wider Australian economy is estimated to be an addition of 403 jobs.

Impact on value added

The direct addition of 160 jobs in the Public Administration and Safety sector of the Queanbeyan-Palerang Regional Council area economy would lead to a corresponding direct increase in value added of \$24.54m. A further \$3.90m in value added would be generated from related intermediate industries. These indirect industrial impacts represent a Type 1 value added multiplier of 1.16.

There would be an additional contribution to the Queanbeyan-Palerang Regional Council area economy through consumption effects as correspondingly more wages and salaries are spent in the local economy. It is estimated that this would result in a further increase in value added of \$1.55m.

The combination of all direct, industrial and consumption effects would result in an estimated addition in value added of \$29.99m in the Queanbeyan-Palerang Regional Council area economy, representing a Type 2 value added multiplier of 1.22.

These impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy to the tune of \$18.69m in value added.

The combined effect of economic multipliers in the Queanbeyan-Palerang Regional Council area and the wider Australian economy is estimated to be \$48.69m added to Australia's value added.

Impact on GRP

Value added by industry represents the industry component of Gross Regional Product (GRP). The impact on the Queanbeyan-Palerang Regional Council area's GRP as a result of this change to the economy is directly equivalent to the change in value added outlined in the section above.

In summary, GRP in the Queanbeyan-Palerang Regional Council area is estimated to increase by \$29.99m.

The effect on the Australian economy (including Queanbeyan-Palerang Regional Council area) is estimated to be a growth in Gross Domestic Product (GDP) of \$48.69m.

Impact on employment by industry sector

This table shows a detailed breakdown of how employment will be affected by the addition of 160 jobs in the Public Administration and Safety sector of the Queanbeyan-Palerang Regional Council area economy. This includes both the direct industrial impact (Type 1) and ongoing consumption impact (Type 2).

Employment by industry sector

Queanbeyan-Palerang Regional Council area - Impact of 160 new jobs in 'Public Administration and Safety' output (Type 1 & 2 combined impact)		Employment impacts			
Industry sectors (1-digit ANSIC)		Existing jobs in the Queanbeyan-Palerang Regional Council area*	Jobs created in the Queanbeyan-Palerang Regional Council area	Jobs created outside of the Queanbeyan-Palerang Regional Council area	Jobs created for Queanbeyan-Palerang Regional Council area residents
Agriculture, Forestry and Fishing		607	3	3	3
Mining		142	0	1	0
Manufacturing		1,926	3	32	5
Electricity, Gas, Water and Waste Services		277	1	3	0
Construction		3,080	24	2	13
Wholesale Trade		350	3	5	2
Retail Trade		1,743	8	21	6
Accommodation and Food Services		1,357	3	18	2
Transport, Postal and Warehousing		608	1	9	1
Information Media and Telecommunications		111	0	5	0
Financial and Insurance Services		131	2	15	2
Rental, Hiring and Real Estate Services		285	0	3	0
Professional, Scientific and Technical Services		810	5	17	4
Administrative and Support Services		430	1	8	1
Public Administration and Safety		1,952	162	2	71
Education and Training		1,171	2	11	1
Health Care and Social Assistance		1,855	3	12	2
Arts and Recreation Services		217	1	3	1
Other Services		806	1	11	0
Total Industries		17,857	222	181	115

Source: [National Institute of Economic and Industry Research \(NIEIR\)](#) ©2019. Compiled and presented in economy.id by [.id](#) The population experts

Resident employment impacts

The combination of all direct, industrial and consumption effects of adding 160 jobs to the Public Administration and Safety sector of the Queanbeyan-Palerang Regional Council area economy would be an estimated increase of 115 jobs located in the Queanbeyan-Palerang Regional Council area and 287 jobs located outside the Queanbeyan-Palerang Regional Council area – a total of 402 jobs.

As some of the Queanbeyan-Palerang Regional Council area’s residents leave the area to work and residents of other areas enter the Queanbeyan-Palerang Regional Council area to work, not all of these jobs will be filled by Queanbeyan-Palerang Regional Council area residents. It is estimated that of the 402 jobs created, 115 or 28.6% would be expected to be filled by Queanbeyan-Palerang Regional Council area residents.

Industry employment impacts

The combination of all direct, industrial and consumption effects of adding 160 jobs to the Public Administration and Safety sector of the Queanbeyan-Palerang Regional Council area economy would result in an estimated increase of 222 jobs located in the Queanbeyan-Palerang Regional Council area.

Of the 222 jobs created within the Queanbeyan-Palerang Regional Council area, 162, or 73.0% would be added within Public Administration and Safety the sector. This includes the direct jobs created in the sector, and the effect of flow-on jobs within the same sector.

The largest increase in jobs outside Public Administration and Safety would be in Construction (24), Retail Trade (8) and Professional, Scientific and Technical Services (5).

A total of 181 jobs are estimated to be created outside the Queanbeyan-Palerang Regional Council area, with the largest number being in Manufacturing (32) Retail Trade (21) and Accommodation and Food Services (18).

Impact on value added by industry sector

This table shows a detailed breakdown of how adding 160 jobs in the Public Administration and Safety sector of the Queanbeyan-Palerang Regional Council area economy will impact on the value added of each industry sector. This highlights the relationships between industry. This includes both the direct industrial impact (Type 1) and ongoing consumption impact (Type 2).

Value-added by industry

Queanbeyan-Palerang Regional Council area - Impact of 160 new jobs in 'Public Administration and Safety' output (Type 1 & 2 combined impact)		Value added 2017-18 (\$m constant prices)	
Industry sectors (1-digit ANSIC)	Value-added to the Queanbeyan-Palerang Regional Council area	Percentage change	Value-added to Australian economy
Agriculture, Forestry and Fishing	\$0.15	0.3%	\$0.54
Mining	\$0.10	0.2%	\$0.41
Manufacturing	\$0.28	0.2%	\$1.53
Electricity, Gas, Water and Waste Services	\$0.11	0.4%	\$1.03
Construction	\$1.49	0.8%	\$1.70
Wholesale Trade	\$0.33	0.7%	\$1.27
Retail Trade	\$0.48	0.5%	\$1.84
Accommodation and Food Services	\$0.12	0.2%	\$0.95
Transport, Postal and Warehousing	\$0.24	0.3%	\$1.24
Information Media and Telecommunications	\$0.02	0.1%	\$1.16
Financial and Insurance Services	\$0.26	0.7%	\$3.82
Rental, Hiring and Real Estate Services	\$0.05	0.1%	\$0.72
Professional, Scientific and Technical Services	\$1.00	0.7%	\$3.19
Administrative and Support Services	\$0.19	0.5%	\$1.20
Public Administration and Safety	\$24.79	8.3%	\$25.01
Education and Training	\$0.12	0.1%	\$0.87
Health Care and Social Assistance	\$0.17	0.1%	\$1.21
Arts and Recreation Services	\$0.07	0.3%	\$0.26
Other Services	\$0.03	0.1%	\$0.74
Total Industries	\$29.99	1.8%	\$48.68

Source: [National Institute of Economic and Industry Research \(NIEIR\)](#) ©2019. Compiled and presented in economy.id by [.id](#) The population experts

The combination of all direct, industrial and consumption effects of adding 160 jobs to the Public Administration and Safety sector of the Queanbeyan-Palerang Regional Council area economy would result in an estimated increase in value added of \$29.99m in the Queanbeyan-Palerang Regional Council area economy.

The Public Administration and Safety sector of the economy is estimated to increase in value added by 8.3%, with the total Queanbeyan-Palerang Regional Council area economy estimated to grow by 1.8%.

The main impacts in value added within Queanbeyan-Palerang Regional Council area, outside of Public Administration and Safety, are in Construction (1.49m), Professional, Scientific and Technical Services (1.00m) and Retail Trade (0.48m).