Tony:

For population vs employment over national/states –

Two questions to be answered in my work:

1. How the national/state 2012 -2018 population vs employment change rate developed?
2. What is the yearly average change rate for population, employment and correlations over the whole country/states?

Conclusions:

1. National and every state/territory population average positive increasing yearly from 2012 to 2018, with national level at 1.25%, max Vic at 1.74%, and min Tas at 0.27%. The population yearly average increase rate overpass that of employment in the whole country.
2. Employment increasing every year in the whole country in the period of 2012 -2018, the national level at 0.9%, max Vic at about 1.4%, min SA at 0.04%.
3. For both population and employment change rates point of view, VIC is the fastest developed state in Australia in the period of 2012 - 2018.
4. From population vs employment correlation coefficient point of view, every state shown a very strong correlation effect with (coefficient value = 0.8 -0.99), except WA and NT with coefficient values at 0.55 and 0.65 respectively, means except WA and NT have weak correlation between population increase rate and employment increase rate, all other states including national rates shown very strong correlationship.
5. Contrary to any other state, TAS’s yearly average employment change rate 50% higher than its population increase rate, means where the job market very active, needs to be further investigated.