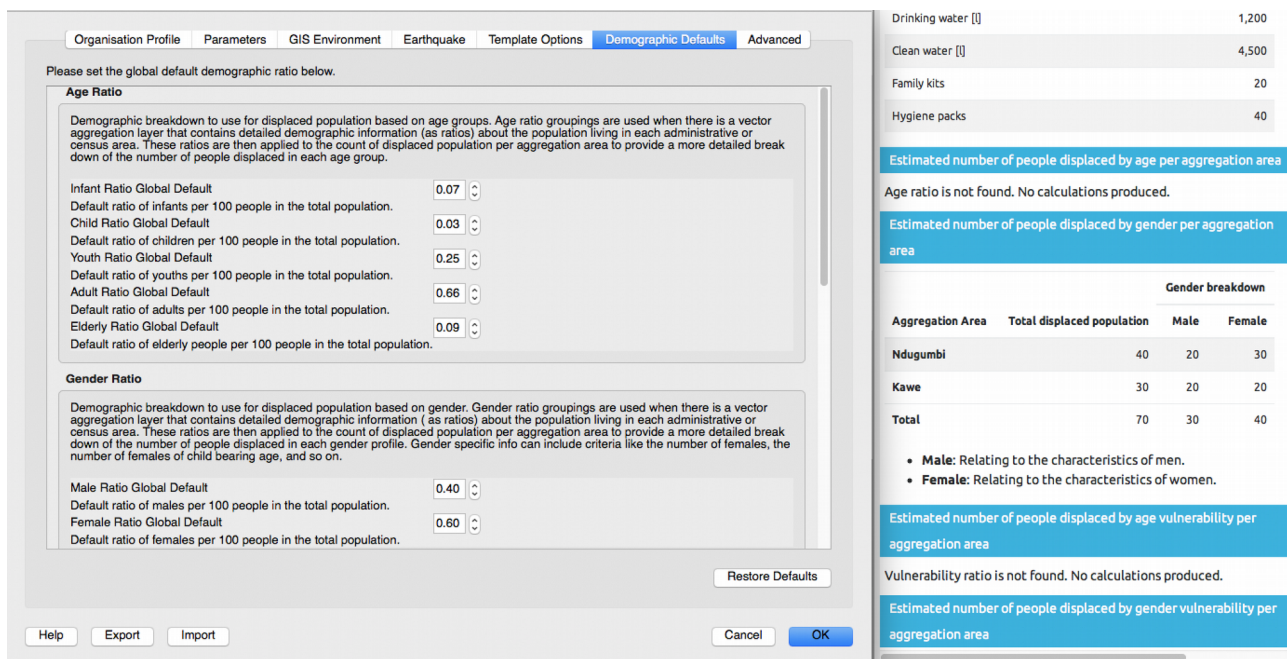




## Understanding the InaSAFE Options

*"InaSAFE provides numerous configuration options – in this worksheet we see how they can be used."*

The options in InaSAFE provide you the ability to control certain aspects of the InaSAFE analysis and reporting process. These customisations include organisation details, thresholds for population displacement, options relating to how QGIS integration works, earthquake specific options, report template options, demographic related options and options aimed for power users.



Organisation Profile Parameters GIS Environment Earthquake Template Options **Demographic Defaults** Advanced

Please set the global default demographic ratio below.

**Age Ratio**

Demographic breakdown to use for displaced population based on age groups. Age ratio groupings are used when there is a vector aggregation layer that contains detailed demographic information (as ratios) about the population living in each administrative or census area. These ratios are then applied to the count of displaced population per aggregation area to provide a more detailed breakdown of the number of people displaced in each age group.

Infant Ratio Global Default: 0.07  
Default ratio of infants per 100 people in the total population.

Child Ratio Global Default: 0.03  
Default ratio of children per 100 people in the total population.

Youth Ratio Global Default: 0.25  
Default ratio of youths per 100 people in the total population.

Adult Ratio Global Default: 0.66  
Default ratio of adults per 100 people in the total population.

Elderly Ratio Global Default: 0.09  
Default ratio of elderly people per 100 people in the total population.

**Gender Ratio**

Demographic breakdown to use for displaced population based on gender. Gender ratio groupings are used when there is a vector aggregation layer that contains detailed demographic information (as ratios) about the population living in each administrative or census area. These ratios are then applied to the count of displaced population per aggregation area to provide a more detailed breakdown of the number of people displaced in each gender profile. Gender specific info can include criteria like the number of females, the number of females of child bearing age, and so on.

Male Ratio Global Default: 0.40  
Default ratio of males per 100 people in the total population.

Female Ratio Global Default: 0.60  
Default ratio of females per 100 people in the total population.

Restore Defaults

Help Export Import Cancel OK

Drinking water [l]	1,200
Clean water [l]	4,500
Family kits	20
Hygiene packs	40

Estimated number of people displaced by age per aggregation area

Age ratio is not found. No calculations produced.

Estimated number of people displaced by gender per aggregation area

Aggregation Area	Total displaced population	Gender breakdown	
		Male	Female
Ndugumbi	40	20	30
Kawe	30	20	20
Total	70	30	40

- **Male:** Relating to the characteristics of men.
- **Female:** Relating to the characteristics of women.

Estimated number of people displaced by age vulnerability per aggregation area

Vulnerability ratio is not found. No calculations produced.

Estimated number of people displaced by gender vulnerability per aggregation area



### You try:

**Goal: Understand how to use InaSAFE options.**

- Use the options dialog to set the gender ratio to 0.40 for males and 0.60 for females.
- Run the keywords wizard on Tandale Wards
- Set the gender ratio options to 'default' for males and females
- Run the flood on population analysis for Tandale
- Review the "Estimated number of people displaced by gender per aggregation area" in the analysis results to see if they are consistent with the settings specified in InaSAFE options.

### Check your results:

Did the report show males:females at a 40:60 ratio?



## More about InaSAFE options

Some options in InaSAFE will fundamentally change the numbers produced in reports. In particular the Demographic Defaults and the Parameters tabs contain options that should be carefully reviewed. We want to caution you to set these options based on fact based information and not to simply 'guess' these values.

The demographics defaults are only applied **when you assign keywords** to a layer, and if you opt to use defaults. The parameters tab was introduced in InaSAFE 4.3 and will be covered in a separate worksheet.

Other options in InaSAFE will only be useful when you create custom templates and reports (see worksheet 22-inasafe-composer-variables).

The earthquake options are also important to understand: the earthquake models are based on building damage rates and fatality rates from historical Indonesian quakes. If you are using InaSAFE in a different earthquake prone region you should consider contributing more appropriate localised models to the developer team of InaSAFE so that it can be incorporated.

The GIS Environment options should generally be left at their default values, though one option you may want to be aware of is the 'Location for results' option. This setting determines where InaSAFE writes its analysis outputs to. If you use InaSAFE a lot you may wish to go to that location in your file manager from time to time to clear away old analysis results. Also if you are looking to share the analysis outputs with others, it is hand to be aware of where the data is being written to. A special note for Linux and MacOS users: if your results location is on /tmp, the results folder will be completely erased each time InaSAFE restarts.



## Check your knowledge:

1. **InaSAFE options are intended only for system administrators?**
  - a) true
  - b) false
2. **Mark all the correct statements:**
  - a) Changing demographic defaults will instantly update all layers using those defaults.
  - b) It is possible to change the location where the analysis outputs are written to.
  - c) Earthquake models tend to be region specific.



## Further reading:

Read about the InaSAFE options in the manual: <http://manual.inasafe.org/en/index.html#options>