Research on the Ageing of Myanmar’s Farmers: Implications for Agriculture and Food Security. Secondary Data Analysis

*Data availability – Overview*

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| **Source** | **Outline** | **Time/Geography** | **Example Variables/domains** | **Access/Quality** |
| [Department of Settlement and Land Records, Ministry of Agriculture and Irrigation.](http://myanmargeneva.org/e-com/Agri/expind/agri-index/myanmar.com/Ministry/agriculture/statistics.htm) | Myanmar (official) agricultural statistics on land use, irrigation, inputs, outputs | Some trends 1961/1991-2001,  Mostly just 2001 as the single and most recent data point.  Limited and inconsistent geography (10-20 states) for water resource, land potential, but not most other variables. | Land utilisation, irrigated areas, size of holdings, cropping intensity, rice types, yield, production, fertiliser use, mechanisation, crop loans.. | Open access, but manual extraction.  Data quality suspect, no documentation, unclear sources, definition, latest data 2001. |
| [UNFPA (2015 ) Myanmar Census materials](http://myanmar.unfpa.org/node/4308) | The 2014 Myanmar Population and Housing Census | 2014 – single enumeration time point.  However reports do on occasion include data from previous cenuses (mainly 1983) although this should be treated with caution.  Geography: separate reports for each of 15 states/regions, with further disaggregation into divisions. | *Demographic characteristics* (age/sex, hh type, hh size, dependency ratios)  *Social characteristics* (marital status, hh composition)  *Migration* (former hh members living abroad)  *Education* (literacy, completed education, attendance)  *Economic activity* (labour participation, unemployment)  *Births*  *Disability* (type, prevalence)  *Housing conditions and amenities* | Open Access, Excel files, easy extraction.  Data quality not suspect, relatively well documented. No time trends, but easy mapping. |
| [Myamnar agricultural census 2003 – main results report](http://www.fao.org/fileadmin/templates/ess/documents/world_census_of_agriculture/main_results_by_country/Myanmar_2003F.pdf) | Aggregate tables for 2003 agricultural census | Single time point 2003 (cannot find other censuses)  No geography | Size and area of land holdings, fragmentation, ownership status, land title holders by gender and age, crop area, fertiliser use (yes/no) | 2003 open access, manual extraction. Other years should be available, but cannot find them. FAO has other data available on a very poorly organised website.. Agri census quality has been seriously questioned in the literature. |
| [IRRI World Rice Statistics Online Query Facility](http://ricestat.irri.org:8080/wrsv3/entrypoint.htm) | Rice related statistics collected by International rice research institute | 1961-2013/2016 for over half of the variables, but some have shorter time trends.  No sub national geography | *Supply and Utilisation* (area, yield, production, food, feed, seed, waste, consumption)  *Trade* (import, export)  *Prices* (CPI, wholesale, export, retail price)  *Land use* (irrigated, arable)  *Input use*(fertilisers, tractors, animals, harvesters)  *Nutrition* (calorie intake, protein intake)  *Import tariffs* | Open access, easy automatic extraction.  Not a lot of documentation, but seems reliable – from FAO and USDA data mainly. |
| [Integrated Household Living Conditions Assessment (2009-2010) MDG](http://catalog.ihsn.org/index.php/catalog/6256/related_materials) | IHLCA-II is a nationwide quantitative survey of 18660 households with two rounds of data collection (December 2009/January 2010 and May 2010). | 2010, but some tables have comparison with 2005.  Mostly national, but some sub national indicators as well. | Household questionnaire modules:  *Household characteristics*  *Housing*  *Education and literacy*  *Health nutrition and mortality*  *Consumption expenditure*  *Household assets, gifts and remittances*  *Labour and employment*  *Business activities*  *Finance and savings* | Access not clear.  But a MDG report has around 40 tables on the main MDG indicators, most with 2005/2010 comparisons and several with sub-national disaggregation.  Good documentation |
| Integrated Household Living Conditions Assessment (2009-2010) – comparison with other sources | Analysis of data sources and gaps for monitoring living conditions – comparison of available sources (2010) | Summary tables for various time periods (some single data points, some e.g. 1990 to 2007),  Geography some only rural/urban, some regions | HH size  TFR  Lexp, IMR, MMR  Income/expenditure  Underweight/stunted wasted children  Building structure, hh assets  Labour force participation  Literacy  School enrolment  Antenatal care, contraception  Water, sanitation | Good documentation, access to raw data not clear. |
| [Livelihoods and Food Security Trust Fund – summary report of baseline survey](http://www.lift-fund.org/downloads/LIFT%20Baseline%20Survey%20Report%20-%20July%202012.pdf) | international consortium aimed at securing livelihoods and food security of poor people - baseline survey as part of its evaluation strategy (252 villages – 4000 households) | 2011 baseline year.  Geography: Delta/Coastal, Hilly and Dry zones, cyclone Giri affected and control. | *Demographic info –* dependency ratios, disability, school attendance, literacy  *Household income –* sources, perception of change, in-kind payment, casual employment, farm labour  *Food security –* dietary diversity, hunger scale  *Access to land* – ownership, cultivation, irrigation  *Crop production –* yields, inputs, crops, constraints, marketing  *Credit –* levels, access  *Livestock, machinery ownership*  *Training –* access, usefulness | Good documentation  Access only to aggregate tables, manual extraction only.  No crosstabulations – but access might be granted if we asked?  Also very good documentation on FGDs, with some qualitative outcomes in the report. |
| [Livelihoods and Food Security Trust Fund – summary report of baseline survey](http://www.lift-fund.org/downloads/LIFT%20Baseline%20Survey%20Report%20-%20July%202012.pdf) | 4 groups of focus groups in 12 villages. Same report as above | 2011 – agricultural producers (M&W), non-agricultural activities (M & W) poorest and most vulnerable hh (M) (W). | *major livelihoods -* cooperation in production, access to land, communal resources,, poverty trends  *Food security* - risk, vulnerability, trends  *Coping strategies* - social capital, access to credit.. | Very good documentation of FGD design, script, instructions. Results interspersed throughout baseline report. Seems like a useful resource. |
| [Myanmar Ministry of National Planning and Economic Development](http://www.myanmar.cm/myanmardata2007/22.htm) | Household Expenditure data from Myanmar central statistical organization | 1989, 1997, 2001, 2005  Urban/Rural | Proportional distribution of expenses, disaggregated food, non-food.  + many other national level trends e.g. agriculture, labour, climate, education (no of schools, teachers, students per region..) | No documentation, open access, manual extraction |
| World Health Survey 2003 Myanmar | 6045 households, representative sample - to examine the way populations report their health, understand how people value health states, measure the performance of health systems | Single year, nationally representative with weights.  Urban/rural. Aggregate data available in summary report. | *Detailed HH Expenditures, structure, health insurance, employment.*  *Physical characteristics, self-rated health, activities, limitations, details on medicines, health related incidents, birth history, sexual health, access to health care* | Great documentation, cross country comparable,  Access: microdata available after licence application (confidentiality, scientific only)  Access: report with aggregate tables (no crosstabulations) is available, manual extraction. |
| Multiple Indicator Cluster Survey. | Key indicators on the well-being of children and women, mainly MDG, but also sustainable development agenda (UNICEF) | 1995, 2000, 2009-10. Reports for all three, microdata only 2000.  Nationally representative, region/state geography available | *Nutrition*  *Child health*, mortality  *Reproductive health,*  *Education,* enrolment rates etc.  *Water access* | Great documentation, cross country comparable, all three reports available with aggregate tables (crosstabulations mainly sex, urban/rural, some age) – manual extraction.  Access: Microdata available only for 2000 round, requires special application (for legitimate research purposes) |
| \* *additional sources*: |  |  |  |  |
| [FAO and WFO crop and food security assessment mission to Myamnar](http://reliefweb.int/sites/reliefweb.int/files/resources/FAO-WFP%20Crop%20and%20Food%20Security%20Assessment%20Mission%20to%20Myanmar.pdf) | 2016 special report on food security in light of cyclone/flood damage. Report mainly combines available institutional data sources, in addition to interviews and two small non-representative surveys, but gives a good overview of resilience related issues based on the most recent data available. | Time/geography variable. | *Socio-economic context*  *Agriculture*  *Food production and availability*  *Cereal production*  *Livestock and aquaculture*  *Food supply and demand*  *Household food security and vulnerability*  *Child nutrition* | Might include several sources not mentioned above and additionally numbers that were produced for this mission. Overall seems like a good overview resource. |
| World Population Prospects | UN estimates and projections of population structure | 1950 – 2015  2015 – 2050  Single age disaggregated (interpolated), m and w. | For pop pyramids and dependency ratios – medium variant projections. | Open access, automatic extraction. |