## Using Survey Weights with xtdpml

Richard Williams, University of Notre Dame, <a href="https://www3.nd.edu/~rwilliam/dynamic/index.html">https://www3.nd.edu/~rwilliam/dynamic/index.html</a>
Last revised October 20, 2021

Survey weights are not officially supported by xtdpml, so use them at your own risk. However, the following BETA procedures seem to have worked fine in the limited testing we have done. Please contact <a href="mailto:rwilliam@nd.edu">rwilliam@nd.edu</a> if you encounter any problems or have suggestions.

## Simple svy

Undocumented features of xtdpdml support simple svy: commands

- The data set must first be svyset using time-invariant variables, So, for example, if you are using the 7th and earlier waves, you would use whatever weights and other survey settings (e.g. psu, strata) you are supposed to be using for the 7th wave. If the data are in long format, you would have to get the time-invariant svy vars copied onto all 7 records for a case, e.g. the first 6 waves need the same svy vars that the 7th has.
- Then add the svy *option* to xtdpdml. Do NOT use the svy: *prefix*. xtdpdml will add the prefix for you.

## Example:

```
use https://www3.nd.edu/~rwilliam/statafiles/bollenbrand, clear
// Unweighted
xtdpdml lnwg eduatt, tfix
// Weighted (age is not a real weight; it is used for convenience)
svyset [pw = age]
xtdpdml lnwg eduatt, svy tfix
```

## svy with options

If you want svy options like subpop, xtdpdml does not handle things correctly. But, it is pretty easy to generate the sem code and then edit it it. There is an undocumented othervars option, where you can specify other time-invariant variables. This would be pretty easy:

```
use https://www3.nd.edu/~rwilliam/statafiles/bollenbrand, clear
svyset [pw = age]
xtdpdml lnwg eduatt, svy othervars(white) semfile(svytest, r) tfix dryrun staywide
// Edit svytest.do and change the sem command to something like
// svy, subpop(white): sem ....
doedit svytest.do
```

This works, although you don't get the nice highlights printout this way.

Warning: The Data are left in wide format. Do NOT accidentally overwrite the original data!!!

In the future we will try to get svy, svy subpop, and other svy options better supported by xtdpdml.