

**estat lcpob** — Latent class marginal probabilities

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## Description

`estat lcpob` is for use after `gsem` but not `sem`.

`estat lcpob` reports a table of the marginal predicted latent class probabilities.

`marginsplot` can be used after `estat lcpob` to plot the marginal predicted latent class probabilities.

## Menu

Statistics > LCA (latent class analysis) > Class marginal probabilities

## Syntax

```
estat lcpob [ , options ]
```

<i>options</i>	Description
<code>classpr</code>	latent class probability; the default
<code>classposteriorpr</code>	posterior latent class probability
<code>nose</code>	do not estimate SEs
<code>post</code>	post margins and their VCE as estimation results
<code>display_options</code>	control column formats, row spacing, and line width

`collect` is allowed; see [U] 11.1.10 Prefix commands.

## Options

`classpr`, the default, calculates marginal predicted probabilities for each latent class.

`classposteriorpr` calculates marginal predicted posterior probabilities for each latent class. The posterior probabilities are a function of the latent class predictors and the fitted outcome densities.

`nose` suppresses calculation of the VCE and standard errors.

`post` causes `estat lcpob` to behave like a Stata estimation (e-class) command. `estat lcpob` posts the vector of estimated margins along with the estimated variance–covariance matrix to `e()`, so you can treat the estimated margins just as you would results from any other estimation command.

`display_options`: `vsquish`, `fvwrap(#)`, `fvwrapon(style)`, `cformat(%fmt)`, `pformat(%fmt)`, `sformat(%fmt)`, and `nolstretch`.

## Remarks and examples

See [\[SEM\] Example 50g](#), [\[SEM\] Example 53g](#), and [\[SEM\] Example 54g](#).

## Stored results

`estat lcprob` stores the following in `r()`:

### Scalars

`r(N)` number of observations

### Macros

`r(title)` title in output

`r(classposteriorpr)` `classposteriorpr`

### Matrices

`r(b)` estimates

`r(V)` variance–covariance matrix of the estimates

`r(table)` matrix containing the margins with their standard errors, test statistics, *p*-values, and confidence intervals

`estat lcprob` with the `post` option also stores the following in `e()`:

### Scalars

`e(N)` number of observations

### Macros

`e(title)` title in output

`e(classposteriorpr)` `classposteriorpr`

`e(properties)` `b V`

### Matrices

`e(b)` estimates

`e(V)` variance–covariance matrix of the estimates

## Also see

[\[SEM\] gsem](#) — Generalized structural equation model estimation command

[\[SEM\] gsem postestimation](#) — Postestimation tools for `gsem`

[\[SEM\] Example 50g](#) — Latent class model

[\[SEM\] Example 53g](#) — Finite mixture Poisson regression

[\[SEM\] Example 54g](#) — Finite mixture Poisson regression, multiple responses