Title

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pwmean postestimation — Postestimation tools for pwmean

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Postestimation commands

The following postestimation commands are available after `pwmean`:

Command	Description
estat vce	variance–covariance matrix of the estimators (VCE)
estimates	cataloging estimation results
etable	table of estimation results
lincom	point estimates, standard errors, testing, and inference for linear combinations of coefficients
nlcom	point estimates, standard errors, testing, and inference for nonlinear combinations of coefficients
test	Wald tests of simple and composite linear hypotheses
testnl	Wald tests of nonlinear hypotheses

Remarks and examples

In *Pairwise differences of means* of [R] **pwmean**, we computed all pairwise differences in mean wheat yields for five fertilizers.

```
. use https://www.stata-press.com/data/r18/yield
(Artificial wheat yield dataset)

. pwmean yield, over(fertilizer)

Pairwise comparisons of means with equal variances

Over: fertilizer
```

			Unadjusted	
yield	Contrast	Std. err.	[95% conf. interval]	
fertilizer				
10-08-22 vs 10-10-10	3.62272	1.589997	.4869212	6.758518
16-04-08 vs 10-10-10	.4906299	1.589997	-2.645169	3.626428
18-24-06 vs 10-10-10	4.922803	1.589997	1.787005	8.058602
29-03-04 vs 10-10-10	-1.238328	1.589997	-4.374127	1.89747
16-04-08 vs 10-08-22	-3.13209	1.589997	-6.267889	.0037086
18-24-06 vs 10-08-22	1.300083	1.589997	-1.835715	4.435882
29-03-04 vs 10-08-22	-4.861048	1.589997	-7.996847	-1.725249
18-24-06 vs 16-04-08	4.432173	1.589997	1.296375	7.567972
29-03-04 vs 16-04-08	-1.728958	1.589997	-4.864757	1.406841
29-03-04 vs 18-24-06	-6.161132	1.589997	-9.29693	-3.025333

After `pwmean`, we can use `testnl` to test whether the improvement in mean wheat yield when using fertilizer 18-24-06 instead of fertilizer 29-03-04 is significantly different from 10%.

```
. testnl (_b[4.fertilizer] - _b[5.fertilizer])/_b[5.fertilizer] = 0.1

 (1)  (_b[4.fertilizer] - _b[5.fertilizer])/_b[5.fertilizer] = 0.1

            chi2(1) =         1.57
          Prob > chi2 =       0.2106
```

The improvement is not significantly different from 10%.

Also see

[R] **pwmean** — Pairwise comparisons of means

[U] **20 Estimation and postestimation commands**