

TABLE B.9
Critical Values for the Phillips Z_t Statistic or the Dickey-Fuller t Statistic When Applied to Residuals from Spurious Cointegrating Regression

Number of right-hand variables in regression, excluding trend or constant ($n - 1$)	Sample size (T)	Probability that $(\hat{\rho} - 1)/\hat{\sigma}_\rho$ is less than entry						
		0.010	0.025	0.050	0.075	0.100	0.125	0.150
<i>Case 1</i>								
1	500	-3.39	-3.05	-2.76	-2.58	-2.45	-2.35	-2.26
2	500	-3.84	-3.55	-3.27	-3.11	-2.99	-2.88	-2.79
3	500	-4.30	-3.99	-3.74	-3.57	-3.44	-3.35	-3.26
4	500	-4.67	-4.38	-4.13	-3.95	-3.81	-3.71	-3.61
5	500	-4.99	-4.67	-4.40	-4.25	-4.14	-4.04	-3.94
<i>Case 2</i>								
1	500	-3.96	-3.64	-3.37	-3.20	-3.07	-2.96	-2.86
2	500	-4.31	-4.02	-3.77	-3.58	-3.45	-3.35	-3.26
3	500	-4.73	-4.37	-4.11	-3.96	-3.83	-3.73	-3.65
4	500	-5.07	-4.71	-4.45	-4.29	-4.16	-4.05	-3.96
5	500	-5.28	-4.98	-4.71	-4.56	-4.43	-4.33	-4.24
<i>Case 3</i>								
1	500	-3.98	-3.68	-3.42	—	-3.13	—	—
2	500	-4.36	-4.07	-3.80	-3.65	-3.52	-3.42	-3.33
3	500	-4.65	-4.39	-4.16	-3.98	-3.84	-3.74	-3.66
4	500	-5.04	-4.77	-4.49	-4.32	-4.20	-4.08	-4.00
5	500	-5.36	-5.02	-4.74	-4.58	-4.46	-4.36	-4.28

The probability shown at the head of the column is the area in the left-hand tail.

Source: P. C. B. Phillips and S. Ouliaris, "Asymptotic Properties of Residual Based Tests for Cointegration," *Econometrica* 58 (1990), p. 190. Also Wayne A. Fuller, *Introduction to Statistical Time Series*, Wiley, New York, 1976, p. 373.