

# Dynamic macroeconomic linkages to the agricultural sector - an application of error correction models to cointegrated relationships

**Avebury - The relationship between urbanization, income growth and carbon dioxide emissions and the policy implications for China: a cointegrated vector error correction (VEC) analysis**

Description: -

-  
Painting, Modern -- Ireland -- Catalogs.  
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Milmo-Penny Fine Art (Gallery) -- Catalogs.  
Dostoevskaya, A. G. -- 1846-1918.  
Tolstaya, S. A. -- 1844-1919.  
Japan -- Foreign relations -- Taiwan.  
Taiwan -- Foreign relations -- Japan.  
Manhattan (New York, N.Y.) -- Buildings, structures, etc.  
New York (N.Y.) -- Buildings, structures, etc.  
Architecture -- New York (State) -- New York.  
Doctor of philosophy degree -- Europe  
Degrees, Academic -- Europe  
Education, Higher -- Europe  
Marketing.

Gaz à effet de serre -- Canada -- Prévention.  
Gaz à effet de serre -- Aspect de l'environnement -- Canada.  
Gaz à effet de serre -- Politique gouvernementale -- Canada.  
Transfer payments -- Europe.

Income maintenance programs -- Europe.  
Guaranteed annual income -- Europe.  
Newman, John Henry, -- 1801-1890.

Macroeconomics.

Agriculture -- Economic aspects. Dynamic macroeconomic linkages to the agricultural sector - an application of error correction models to cointegrated relationships

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Notes: Bibliography: p. 156-160.

This edition was published in 1994

Table 4. Test for cointegration rank.

Hypothesized No. of cointegrating eqs (r)	Eigen value	Max-Eigen statistic	0.05 critical value	Prob. >
None	0.937216	22.81530	52.36261	0.0002
At most 1	0.658220	42.94346	46.23142	0.1081
At most 2	0.538444	30.97912	40.07757	0.3620
At most 3	0.484688	26.51927	33.87687	0.2920
At most 4	0.433900	24.19812	27.58434	0.1280
At most 5	0.394350	20.07901	21.13162	0.0636
At most 6	0.355931	9.802208	14.26460	0.0384
At most 7	0.069141	2.822953	3.841465	0.0929

Max-eigenvalue test indicates 1 cointegrating eq(s) at 0.05 level. \* denotes rejection of the hypothesis at the 0.05 level. \*\*MacKinnon-Haug-McLeod (1995) P-value  
Source: Author's compilation (2017).

Table 5. The long-run regression result.

	SS	df	MS	Number of obs	F	Prob > F
Model	0.219	7	0.0313	42		0.0000
Residual	0.165	34	0.00485		R-squared	0.980
Total	0.384	41	0.00934		Root MSE	0.0696

LY	Coef	Std. Err.	t	Prob >	95% Conf. Interval
LMOP	0.479	0.536	0.89	0.378	-0.610 1.568
LMZ	0.289	0.149	1.94	0.060	-0.0152 0.591
LMZ	-0.148	0.0452	-3.21	0.003	-0.248 -0.0482
LA	0.630	0.0799	7.89	0.000	0.468 0.793
LAHQ	0.307	0.0554	5.55	0.000	0.198 0.415
LPI	0.0774	0.107	0.730	0.473	-0.140 0.294
LAPI	0.0979	0.0396	2.470	0.019	0.0173 0.178
_cons	4.552	1.912	2.380	0.024	0.646 8.419

Source: Author's compilation (2017).  

$$\hat{Y} = 4.552 + 0.479LMOP + 0.289LMZ - 0.148LMZ + 0.630LA + 0.307LAHQ + 0.0774LPI + 0.0979LAPI$$

$$[0.424] [0.178] [0.448] [0.065] [0.000] [0.473] [0.019]$$
where: \* and \*\* means significant at 1 and 5%, respectively



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North Am Acad Res 3: 21-44.

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this paper will equally contribute to literature by incorporating recent time series data which captures recent policies aimed at liberation and regulation of the financial sector.

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