



Home ► All Journals ► Economics, Finance & Business ► Applied Economics ► List of Issues ► Volume 49, Issue 8 ► An investigation into the interdependenc Q

Applied Economics >

Volume 49, 2017 - Issue 8

484110ViewsCrossRef citations to dateAltmetricOriginal ArticlesOriginal ArticlesOriginal Articles

Original Articles

An investigation into the interdependence of global water indices: a VAR analysis

Rajibur Reza, Gurudeo Anand Tularam 🜄 & Bin Li

Pages 769-796 | Published online: 20 Sep 2016



ABSTRACT

We investigate the extent and manner of equity price interdependence among four water indices – World Water Index, S-Network Global Water index (S-Net), S&P Global Water Index (S&P) and MSCI ACWI Water Utilities Index (MSCI ACWI) using the vector autoregression (VAR) framework for the period 2004–2014. We also employ methods of Granger causalities, variance decomposition and impulse responses. We find Granger causality significance between S-Net and MSCI ACWI and S-Net and S&P indices at the 1% level of significance, suggesting that the indices are significantly linked. Further, S-Net is the most influential index amongst them in the forecast variance that can be accounted by S-Net at level of 55.75%. Our study indicates that the four water indices are interdependent and related, so the water indices are influenced by movements in the other water indices.

KEYWORDS:

Water investment	water index	vector autoregression	Granger causality	variance decomposition
impulse response ar	nalysis			
JEL CLASSIFICATI	ON:			
Q25 C32				

Disclosure statement

No potential conflict of interest was reported by the authors.

Notes

¹ According to OECD (2013) '... A Laspeyres index number is a form of index number where prices, quantities or other units of measure over time are weighted according to their values in a specified base period...'.

Related research 🚺

People also read	Recommended articles	Cited by 11
		11

Information for	Open access
Authors	Overview
R&D professionals	Open journals
Editors	Open Select
Librarians	Dove Medical Press
Societies	F1000Research
Opportunities	Help and information
Reprints and e-prints	Help and contact
Advertising solutions	Newsroom
Accelerated publication	All journals
Corporate access solutions	Books

Keep up to date

Register to receive personalised research and resources by email





Copyright © 2025	Informa UK Limited	Privacy policy	Cookies	Terms & conditions	Francis Group
Accessibility					

Registered in England & Wales No. 01072954 5 Howick Place | London | SW1P 1WG