Accepted Manuscript

Nonlinear Relationship between Crude Oil Price and Net Futures Positions: A Dynamic Conditional Distribution Approach

Haiqi Li, Myeong Jun Kim, Sung Y. Park

PII:	S1057-5219(16)30008-4
DOI:	doi: 10.1016/j.irfa.2016.01.022
Reference:	FINANA 946

International Review of Financial Analysis

To appear in: International Review of Financial Analysis

Received date:6 August 2015Accepted date:25 January 2016

Please cite this article as: Li, H., Kim, M.J. & Park, S.Y., Nonlinear Relationship between Crude Oil Price and Net Futures Positions: A Dynamic Conditional Distribution Approach, *International Review of Financial Analysis* (2016), doi: 10.1016/j.irfa.2016.01.022

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Nonlinear Relationship between Crude Oil Price and Net Futures Positions: A Dynamic Conditional Distribution Approach

Haiqi Li*

Myeong Jun Kim[†]

Sung Y. Park[‡]

Abstract

This study examines the dynamic relationship between crude oil prices and net futures positions using a dynamic conditional density that can take account of time-varying bimodality. The shape of conditional density is modeled directly by specifying functional coefficients. We find that when the crude oil price is on the rise (decline), speculators tend to take long (short) positions to make profits and hedgers tend to take short (long) positions to cover the risk in the physical market. On the other hand, speculators have a positive effect on the price whereas hedgers have a negative effect. Therefore, when the price is on the rise (decline), speculators tend to push it up (pull it down) while hedgers tend to pull it down (push it up). This effect becomes stronger in the recent period. Moreover, the sharp increase of the crude oil price can be explained by speculating and hedging behavior through conditional higher-order moments.

JEL code: Q41; C22; G12 **Keywords:** Crude oil price; Net futures position; Generalized normal distribution; Nonlinear model; Bimodal distribution

^{*}College of Finance and Statistics and Center for Post-Doctoral Studies of Applied Economics, Hunan University, Changsha, 410006, China. E-mail: lihaiqi00@gmail.com.

[†]School of Economics, Chung-Ang University, 84 Heukseok-Ro, Dongjak-Gu, Seoul, Korea. Email:kimiling21@gmail.com.

[‡]Corresponding Author: School of Economics, Chung-Ang University, 84 Heukseok-Ro, Dongjak-Gu, Seoul, Korea. Tel: +82-2-820-5622. Email: sungpark@cau.ac.kr.

Download English Version:

https://daneshyari.com/en/article/5084667

Download Persian Version:

https://daneshyari.com/article/5084667

Daneshyari.com