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## BACKGROUND



MEYER AND CRAMON-TAUBADEL (2004) point out the major difficulties to prove the relationship between market power and asymmetric cost pass through. The studies either present only one pair of time series (prices and costs) with likely no change in market power over time or use a cross section panel that fails to account for differences between products and/or countries (see PELTZMAN, 2000).



	AIUM						TRANSFOP Transparency of Food Pricing
Author(s)	Kinnucan, Forker	Serra, Goodwin	Chavas, Mehta	Jensen, Møller	Baumgartner et al.	European Commission	Stewart, Blayney
Year	1987	2003	2004	2007	2009	2009	2011
Journal <sup>a</sup>	AJAE	AE	AJAE	WP	WP	RP	ARE
<b>Relationship</b> <sup>b</sup>	Pf ↔Pr	Pf ↔Pr	Pw ↔Pr	$Pf \leftrightarrow Pw \leftrightarrow Pr$	Pf ↔Pr	$Pf \leftrightarrow Pr$	Pf↔Pr
Product	Milk, Butter, Cheese, Ice Cream	Milk, Cheese, Cream Caramel	Butter	Milk	Milk, Butter, Cheese	Milk, Butter, Cheese and Other	Milk, Cheese
Country	USA	Spain	USA	Denmark	Austria	EU-27	USA
Frequency	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
Result (Asymmetry)	Yes	Yes <sup>d</sup>	Yes	Yes	Yes	Yes	Yes
Form of Asymmetry	Positive	Positive	Positive	Positive	Positive <sup>f</sup>	Positive	Positive <sup>g</sup>
Model	DLM	TECM	ECM	ECM	TVECM	DLM	ECM/TECM/STECM
# Regimes	2	3	2	2	3	2	1/2/3













	U ULITI L					Transparency of Food Pricing
		Milk	(in Eurocen	ts/Litre)		
A				F	Prices	
	Brands (Price Series)	Market Share	Mean	St.Dev.	Min.	Max
Wholesale Price			49	5	44	60
Retail Price Series	(919)		77	14	53	106
Brands	71 (919)					
National Brands	50 (633)	41.6%	84	8	53	106
Cooperative Dairies	35 (297)	22.3%	78	8	53	93
Non-Cooperative Dairies	15 (335)	19.3%	89	7	58	106
Private Labels	21 (286)	58.4%	60	3	56	100
Type of Milk						
Fresh Milk	35 (320)	23.4%	79	11	53	102
UHT Milk	36 (599)	76.6%	75	14	58	106
	Stores (Price Series)					
Stores	327 (919)					
Supermarket	72 (168)	6.8%	76	15	59	106
Small Consumer Market	60 (175)	9.3%	77	14	59	96
Large Consumer Market	71 (233)	25.7%	78	13	56	97
Hypermarket	83 (276)	50.6%	78	12	53	93
Discounter	39 (67)	7.6%	65	11	56	90

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	IN CENT	PFP 2	506)			
	IN C-CLINI		500)			TRANSFOR Transparency of Food Pricing
_		Butte	r (in Eurocent	ts <b>/250 g)</b>		
В				Pr	ices	
	Brands (Price Series)	Market Share	Mean	St.Dev.	Min.	Max
Wholesale Price			78	13	64	113
Retail Price Series	(1724)		125	20	80	239
Brands	90 (1724)					
National Brands	81 (1581)	68.8%	129	17	80	239
Cooperative Dairies	55 (1130)	24.7%	132	16	80	172
Non-Cooperative Dairies	26 (451)	44.1%	123	17	94	239
Private Labels	9 (143)	31.2%	83	5	80	106
Type of Butter						
Standard Butter	52 (512)	31.3%	121	19	81	239
Additionally Labelled Butter	29 (1069)	68.7%	127	21	80	173
	Stores (Price Series)					
Stores	447 (1724)					
Supermarket	76 (205)	3.6%	132	17	82	173
Small Consumer Market	66 (253)	5.0%	134	20	82	239
Large Consumer Market	77 (458)	19.1%	130	18	81	205
Hypermarket	83 (570)	53.6%	123	20	80	173
Discounter	145 (238)	18.7%	109	21	81	148

MOI	DELING
× Ti	me series properties (unit roots, lags etc.)
× G	ranger causality
× C( 2(	o-Integration, Threshold Co-Integration (Enders and Siklos, 201)
× Te Te	sting non linearity and # of regimes (Strikholm und räsvirta, 2006)
× Es	stimation TECM
× M	odel with estimated dependent vaiables
	Estimators of TECM
+	Average margin (Lerner Index)
	Asymmetry
4	Menu costs











RESULTS MODEL	II MIL	к					NSFOP
	Averate	Margin	anold Inter	anold Adjust	nent Adjustr	BOBUR	IER3 Notate
Milk	ф	θ-	θ+	δ-	δ0	δ+	φ
Control Group <sup>a</sup>	28.40 *** (0.00)	-2.76*** (0.00)	6.63 *** (0.00)	-0.144 *** (0.00)	-0.016 * (0.08)	-0.047 *** (0.00)	0.081 *** (0.00)
Non-Cooperative Dairy	10.40 *** (0.00)	-1.64 *** (0.00)	-0.39	-0.018 *** (0.00)	-0.017 *** (0.00)	-0.026 *** (0.00)	-0.024 *** (0.00)
Private Label	-19.10 ***	0.17 ** (0.03)	-1.89***	-0.328 *** (0.00)	-0.041 *** (0.00)	-0.158 *** (0.00)	0.049 ***
Fresh Milk	-0.56	0.37 *** (0.00)	0.11	0.002	0.001	-0.003	-0.029 ***
Supermarket	4.05 ***	0.00	-0.77 **	0.001	0.023 **	0.016***	-0.011
Small Consumer Market	3.63 ** (0.03)	0.00 (0.99)	0.22 (0.47)	- 0.005 (0.52)	0.019 ** (0.05)	0.019 *** (0.00)	-0.002 (0.87)
Large Consumer Market	1.93 (0.23)	0.00 (0.77)	0.00 (0.91)	-0.029 *** (0.00)	0.009	0.018 *** (0.00)	0.022 ** (0.38)
Hypermarket	0.51 *** (0.75)	-0.11 (0.27)	-0.22 (0.48)	0.020	-0.005	0.017 ***	0.021 ** (0.04)
R-Squared <sup>b</sup>	0.81	0.12	0.07	0.55	0.02	0.49	0.08

RESULTS MODEL	. II BU	TTER				MARA TRA	NSFOP
	Mero	e Marein 2. This	shold Three	shold Adjust	Adjustr	hobaura	re R3 nediate
Butter	ф.	θ-	θ+	δ-	δ0	δ+	φ
Control Group <sup>a</sup>	4.13 ***	-9.38*** (0.00)	9.06***	-0.266 ***	-0.008 ** (0.06)	-0.125 ***	0.101 ***
Non-Cooperative Dairy	-6.12***	1.73***	1.08***	-0.032 ***	0.003	0.023 ***	0.00
Private Label	-3.60***	7.60 ***	-6.39***	-0.144 ***	0.014	-0.108 ***	0.786 ***
Additionally Labelled Butter	10.10 ***	1.79***	3.77 ***	0.035 ***	0.003	-0.016 ***	-0.133 ***
Supermarket	9.19 ***	-3.81 ***	1.04 ***	-0.009	-0.009 **	0.025 ***	0.080 ***
Small Consumer Market	11.50 ***	-0.72 ***	2.97 ***	0.010	- 0.007 *	0.017 ***	0.080 ***
Large Consumer Market	8.91 ***	-4.06 ***	2.12 ***	-0.002	-0.008 **	0.038 ***	0.077 ***
Hypermarket	3.77 ***	-4.25***	1.13***	-0.04 ***	-0.014 ***	0.026 ***	0.066 ***
R-Squared <sup>b</sup>	0.60	0.16	0.15	0.17	0.01	0.04	0.47





Cooperative Dairy, NB Mid-Germany, UHT-Milk	Markup	Menu Costs	Asymmetry TH	Asymmetry PA	Speed PA	
Fresh Milk	0.0085*	-0.0015	-0.0005	-0.0999	0.0004	
Supermarket	0.0417***	-0.0026	-0.0037	0.1311	-0.0413**	
Small Convenience Store	0.0375***	0.0038	-0.0046	0.0208	-0.0535**	
Large Convenience Store	0.0221**	0.0051	-0.0026	0.3113	-0.0318*	
Hypermarket	0.0135*	-0.0029	0.0013	0.1048	-0.0492**	
North	0.0089*	0.009	0.0159***	-0.0884	-0.0505***	
South	0.0218***	0.0027	0.0135***	0.1882	-0.0306***	
Non-Cooperative Dairy	0.0783***	0.0013	-0.0189***	-0.4372*	-0.0099	DECULTO
Product is a PL	-0.1832***	-0.0375***	-0.0190***	-0.4827*	0.2389***	RESULIS
Elasticity of Demand	0.0027*	-0.0012	-0.0021*	0.0712	-0.0031	MODEL III
Market Share of NB	0.0174*	0.0150*	0.0172**	-0.5156*	-0.002	
Constant	0.3358***	0.0888***	0.0126	3.0351***	0.1951***	
N	593	593	593	593	593	
R-squared	0.85	0.15	0.10	0.04	0.65	
AdjR-squared	0.84	0.13	0.08	0.02	0.65	
Legend: * p<0.05, **p<0.01,	*** p<0.001 b	ased of robus	t standard errors			
Markup = Lerner Index						
Menu Costs = Range of Thre	sholds (range	e of inner regi	me)			
AsymmetryTH = Sum of thre	sholds (locat	ion of the inn	er regime)			
AsymmetryPA = Cummulat	ive difference	of response t	o positive and ne	gative schocks o	wer8 weeks	

RESULTS MODE	EL 111				
Correlation	Markup	Menu Costs	Asymmetry TH	Asymmetry PA	Speed PA
Markup	1.000				
Menu Costs	0.364	1.000			
Asymmetry TH	-0.003	0.382	1.000		
Asymmetry PA	0.069	-0.021	0.085	1.000	
Speed PA	-0.787	-0.306	-0.134	0.024	1.000



