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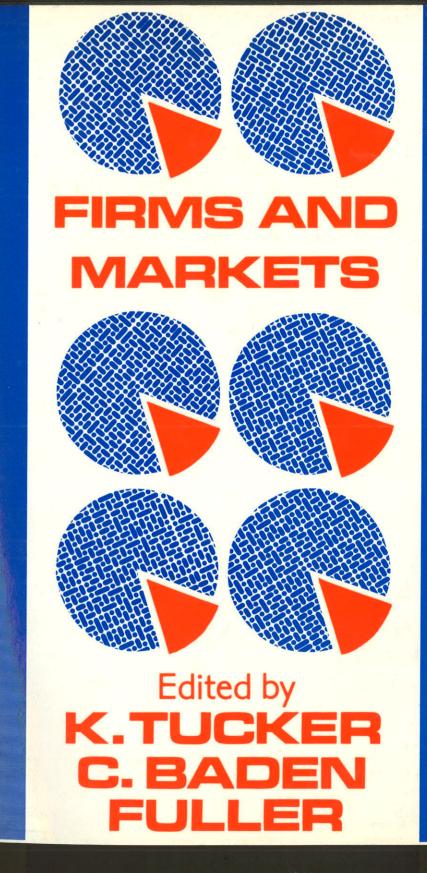
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TO THE TOWN OF THE POST OF THE

3 RISING CONCENTRATION: THE UK GROCERY TRADE 1970–19801

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Introduction

support these conclusions has been drawn from the recently most Western economies the service sector is the largest and fastest empirical work on this issue has examined statistical relationships non-price competition. Are these fears justified? Theory cannot fully barriers against new competitors and the dissipation of resources in concentration among sellers is likely to be detrimental to the public always against the public interest. Some of the evidence used to growing. An examination of the UK grocery retailing trade between has been done on the service sector. The last omission is serious; in has been done examining industries over time, and very little work across samples of manufacturing (and mining) industries. Less work justify or refute these fears; the argument hinges on evidence. Most interest. Rising concentration is said to bring higher prices, higher Industrial economists among others have feared that an increase in published Monopolies and Mergers Commission (MMC) Report on available before. Discounts to Retailers (1981), but much has not been generally 1970 and 1980 casts doubt on the theory that rising concentration is

Brief Review of Theory

The economics literature suggests that rising concentration may be accompanied by some gains and costs. The gains may come from the greater efficiency in the utilisation of resources; the costs from

¹ The author alone is responsible for errors, all of which are unintentional. Grateful thanks to AGB; Michael Beesley; Mike Dent; Institute of Grocery Distribution, members of the trade; John McGee; Mary Morgan; Nielsen; Ken Tucker; Robin Wensley and Philip Williams.

the welfare losses of the higher margins which may be charged by

of resources. (See, for instance, Peltzman, 1977.) It will be efficiencies have occurred but are relatively small. suggested in this paper that in the UK grocery trade, such internal centration and yet be associated with more efficient utilisation would occur. Such rises might translate into a rise in seller conaccount of these unexploited gains, rises in their market share firm size, then were some firms to increase their size to take such that the most efficient firm size was larger than the current there were significant economies of scale or experience effects gains. These gains may occur within the industry. For example, if that increases in concentration may be associated with efficiency Since the writing of J. S. Mill's Principles it has been recognised

paper will re-examine that evidence. rising concentration has been associated with buying power; this Monopolies and Mergers Commission (1981) has concluded that in US manufacturing industry. In the UK grocery trade, the UK 'buying power'. Lustgarten (1975) has observed this phenomenon centration viewed from the suppliers' side. I shall call this effect centration may be accompanied by an increase in buyer conindustry among suppliers. For example an increase in seller con-Efficiency gains from rising concentration may occur outside the

existing entry barriers. direct effects of increasing concentration on prices by the raising of concentration on raising prices and those which consider the intwo parts; those which consider the direct effect of increasing may bring undesirable effects. The arguments can be divided into A number of economists have argued that rising concentration

grocery retailing generally, with special attention to the ources in entry-deterring assets such as capacity, advertising or phenomenon of increased retailer advertising expenditures. route. This paper will examine the barriers facing entrants into UK then rising concentration might raise margins by this indirect members were using some static or dynamic 'limit pricing' rule, product differentiation. If this were so, and if the industry concentration may cause industry members to invest more res-It has been argued by Spence (1977) and others that increases in

others have argued that, ignoring any effect on existing entry barriers, an increase in concentration may make industry members G Stigler (1964) and K Cowling and M Waterson (1976) among

> their actions so raising margins." more aware of their interdependence and more able to coordinate

entry is a credible threat as Hood and Yamey (1951) point out: emphasises that in the absence of entry barriers, existing firms may coordinate the raising of margins. Three of these are relevant retailers in other trades can take up items . . . the flexibility of 'Competition from new firms is not the only source of danger . . . neither wish nor be able to raise margins. In retailing generally, here. The recent literature on contestability (see Baumol, 1982) the many circumstances where it may be difficult or impossible to merchandise is a potent contribution to price competition in re-A number of counter-arguments have been advanced that stress

coordinated actions between firms may be less likely. firms and was accompanied by changes in their rankings then centration had arisen. If it had occurred by internal growth of the coordinate actions may also depend on how the increase in con-Peltzman (1977) among others stressed that the ability to

raising of prices. different backgrounds then it may be harder to coordinate the also play a role. Where each firm's managers are drawn from Scherer (1980, pp. 224-5) stressed that management styles may

significant increases in market power. (For a survey see Scherer above these thresholds it may be accompanied by increasingly thresholds below which increasing concentration has little effect; concentration may work in a non-linear fashion. There may be Since the pioneering work of Bain, it has been argued that

mented that increasing concentration in sectors 'not subject to centration ratio in 1975 was 65 per cent; they (Chapter 14) comnoted that in Canadian grocery retailing the four-firm connational concentration to rise. Caves, Porter et al. (1980, p. 117) expressed concern over the recent mergers that have caused 19 per cent and the eight-firm 26 per cent. They (Chapter 6) basis) are quite small; smaller than those for manufacturing. For relevant thresholds in concentration (measured on a national international trade' (of which retailing must be one) should cause for grocery retailing in 1976 the four-firm concentration ratio was instance, Marion, Mueller et al. (1979, p. 7) noted that in the USA It is generally thought that, as far as retailing is concerned, the

ratio has risen from 26 per cent in 1970 to 40 per cent in 1980 (or in concentration in grocery retailing. The four-firm concentration effects of this rise in concentration. treated as one firm). This paper will now examine the causes and from 37 per cent to 51 per cent if the Cooperative stores are In the UK in the last decade there has been a significant increase

The UK Grocery Trade 1970-1980

centration has come about through internal growth of the firms market share of the top four or eight firms has grown by more than concentration has been encouraged and accompanied by fierce and not by combination; moreover Allied Suppliers, the largest 40 per cent in the period 1970-1980. The significant rise in conrise in concentration. This increase has been large; the average margins and grocery retailer margins have fallen over the decade. competition between the retailers. As a result grocery supplier grocery retailer in 1970, fell to seventh place by 1980. The rising UK grocery retailing is but one of many industries experiencing a

outlets. Whilst there are a few large independent stores such as store operators are distinguished by operating fewer than ten retail societies), voluntary groups (retailers associated with the four types of retailers: multiples, cooperatives (cooperative as Spar, VG or Mace. While member stores are encouraged to members usually trade under the name of their buying group such wholesale buying organisations) and independents. Independent exercise central authority. In contrast, the outlets of multiple cooperative retail chains, which can purchase through the CWS pendently. Most cooperative outlets are part of one of the large do so; they frequently purchase from other wholesalers or indepurchase their goods from the federation, they are not obliged to Carrefour, they are mostly small 'corner' grocers. Voluntary group retailers are controlled centrally. chains negotiate individually with suppliers and the CWS does not (Cooperative Wholesale Society). However, many cooperative For those unfamiliar with the UK, here is a short description of

general agreement as to whether the cooperative movement should be treated as one entity, or many; likewise for the voluntary groups. As the largest voluntary group, Spar, controls When examining the trade it should be realised that there is no

> effect. The opposite is the case for cooperatives, whose share atments of individual voluntary groups should not have material the same regardless of the treatment of cooperatives. exceeds 15 per cent. Fortunately the trends in concentration are less than 21/2 per cent of packaged grocery sales, differing tre-

Trends in Concentration

regional trends. and even regional ones are not clearly defined. Ideally an analysis sumers' search area, almost all grocery products are purchased seen regional data on a time series basis that national trends reflect available on a national basis. I am informed by those who have trends of market shares (and hence concentration) are only of local, regional and national markets would be in order; alas place on many fronts; for larger retailers, local markets overlap locally.) From the viewpoint of the retailers, competition takes ownership and lengthening of shop hours have extended the conthe relevant market is certainly small. (Although increasing car minimal import competition.) From the buying public's viewpoint, national measure is probably appropriate. (UK food suppliers face to measure concentration. From the suppliers' viewpoint the There is no full agreement about the relevant market upon which

that 85 to 90 per cent of all retail grocery sales go through grocers.) grocery stores such as Marks and Spencer. (AGB have estimated AGB and Nielsen data ignore the sales of grocery items by noncalculation of Herfindahl indices and concentration ratios. Both whereas others stress packaged grocery items. AGB data permit emphasise products such as clothes, durables and fresh foods, Nielsen data as different grocers sell differing product mixes; some packaged grocery items. Differences exist between AGB and AGB, using a consumer panel, only measures the sales of major the sales of grocery retailers from data supplied by the firms. Nielsen (combining the Census reports into its statistics) calculates Market share data come from two sources: Nielsen and AGB.

Nielsen's data show a significant decline in the role of independent independent stores and cooperatives. For the period 1971 to 1981. and voluntary groups gained ground (mainly) at the expense of was enforced. After RPM was abandoned around 1964, multiples this was the period during which Retail Price Maintenance (RPM) 1961 multiples gained little ground. It should be remembered that Table 3.1, based on Nielsen data, shows that between 1950 and

groups (22 per cent in 1971 to 17 per cent in 1981); a static role for multiples (44 per cent in 1971 to 58 per cent in 1981). cooperatives (15 per cent) and a significant gain in the role of stores (21 per cent in 1971 to 11 per cent in 1981) and voluntary

Table 3.1: Shares of U.K. Grocery Store Sales by Type of Store 1950-1981: Percentages

Multiples 24 27 36 44 48 48 50 52 54 55 58 Cooperatives 22 21 17 15 16 16 16 16 16 15 15 15 15 15 16 Groups 6 13 21 22 20 21 20 19 18 17 17 17 Independents 6 26 21 16 15 15 14 13 13 12 11												
1950 1961 1966 1971 1975 1976 1977 1978 1979 1980 24 27 36 44 48 48 50 52 54 55 25 22 21 17 15 16 16 16 15 15 15 26 55 56 57 58 58 58 58 58 58 58 58 58 58 58 58 58		12	13	13	14	15	16	21	26	40	9	Independents)
1950 1961 1966 1971 1975 1976 1977 1978 1979 1980 24 27 36 44 48 48 50 52 54 55 28 22 21 17 15 16 16 16 15 15 15	17	17	18	19	20	21	20	22	21	3	72	Groups }
1950 1961 1966 1971 1975 1976 1977 1978 1979 1980 24 27 36 44 48 48 50 52 54 55 98 22 21 17 15 16 16 16 15 15 15												Voluntary
1950 1961 1966 1971 1975 1976 1977 1978 1979 1980 24 27 36 44 48 48 50 52 54 55	15	15	15	15	16	16	16	15	17	21	22	Cooperatives
1961 1966 1971 1975 1976 1977 1978 1979 1980	58	55	54	52	50	48	48	44	36	27	24	Multiples
	1981	1980	1979	1978	1977		1975		1966	1961	1950	

Note: The columns may not add to 100% because of rounding Source: Nielsen

multiples for 1970, and a faster growth in market share. The and Nielsen data; AGB's figures show a higher market share for a significant gain for multiples. Differences exist between AGB this proportion has been increasing over the decade.³ These proportionately more packaged groceries than other stores and differences are explained by the fact that in 1970 multiples sold decline in the role of independent stores and voluntary groups and Table 3.2, based on AGB's figures, also shows a significant

Table 3.2: Shares of Packed Grocery Sales by Grocers 1970-1981: Percentages

	1970	1974	1975	1976	1977	1978	1979	1980	1981
Multiples	49 ^b	53	55	57	60	64	65	83	70
ves	19	21	20	20	19	18	18	18	17
Voluntary Groups	16	14	14	13	12	10	9	œ	7
Independent stores	18 ^b	13	1	10	9	_∞	∞	7	တ
H8c with	.055	.057	.063	.059	.059	.066	.072	.076	.083
~	37	41	42	41	42	46	48	51	53
) cooperatives	50	54	58	56	58	62	66	71	72
H8c) without	.019	.021	.023	.023	.027	.037	.043	.048	.057
Cooperatives	26	27	27	27	30	34	36	40	42
Notes: a. The columns may not add to	m snr	av not	add to	100%	hecal	ise of r	se of rounding	2	

The columns may not add to 100 % because of fourfullig.

= approximate.

H8 = Herfindahl's indices based on leading eight stores.

Sources: AGB/TCA c. H8 = Hertindani s iliulues pased villocentration indices.
d. C4, C8 = Four-firm and eight-firm concentration indices.

packaged groceries whereas Nielsen's are based on all sales. factors are reflected in AGB's figures which are based on sales of

excluding cooperatives.) The dramatic increases in concentration markedly over the decade. For instance the four-firm con-1981 figures show. took place mainly after 1976, and had not stopped in 1980 as the (These increases were not significantly affected by including or centration ratio rose by 16 per cent, and the Herfindahl by 0.03.4 on the basis of AGB data show that concentration increased very The firm concentration ratios and Herfindahl indices computed

Sources of Increasing Concentration

one of the leading firms and the emergence of two new large retailers. increase in concentration has been accompanied by a decline in result of merger activity. This is more remarkable given that the expansion by the firms in the industry; only a small part was the Most of the increases in concentration can be attributed to internal

about 50 per cent over the same period.9 acquisitions to help growth and it has increased market share by northern based, captured nearly 5 per cent of the market in ten of rapid store openings outside town centres.7 Kwik Save, also creased its market share about sixfold by a prolonged programme about doubled their shares, expanded mainly by opening new unprofitable stores.⁵ Tesco and Sainsbury, which in the period helping growth.⁸ Similarly, International Stores has used town centres. Kwik Save has used acquisitions as a means of to offer cut-priced packaged groceries from smaller locations near years from an almost insignificant position in 1971; its policy was large stores.⁶ Asda, the northern based superstore group, in-No. 1 to No. 7, losing nearly half its market share through closing national Stores (4.7). Over the decade, Allied Suppliers fell from (13.4), Asda (8.5), Fine Fare (5.5), Kwik Save (5.4) and Interthe end of the decade (1980) they were Sainsbury (13.4), Tesco Sainsbury (6.1), Fine Fare (4.8), and International Stores (3.2). At (with market shares) were the Allied Group (7.9), Tesco (7.2), At the beginning of the decade (1970), the largest multiples

building of many superstores. Even so it is thought that no indimany mergers, rationalisations and closures of smaller outlets, and in market share; however within the movement there have been The cooperative movement has experienced little overall change

vidual retail society accounts for more than 1 per cent of grocery

Effects of Increasing Concentration on Suppliers

generally supports this view. the retailers causing manufacturers' margins to fall. The evidence grocery concentration have resulted in greater buying power for very favourable for Tesco. Suppliers also believe that increases in manufacturing industry because she was able to negotiate terms Chief Buyer of groceries at Tesco, was the bane of the grocery prices from suppliers. It has been said that Daisy Hyams, one time believe that a larger market share enables them to extract lower been the desire to exploit 'buying power'. Retailing managers The major force behind increasing concentration has probably

being a very close second. best terms. Tesco, at that time, was the largest retailer, Sainsbury Asda, and showed that Tesco (by a small margin) obtained the discounts given to the three largest retailers Sainsbury, Tesco, and part reflected purchasing power. The Commission also examined promotion etc., but in the opinion of the Commission the larger services provided by the largest retailers in the form of in-store less than the rest of the trade. Some of these lower prices reflected than the next ten grocery multiples which in turn paid 2.0 per cent on average, the top four grocery multiples paid 1.5 per cent less available brands valued at £960 millions. The report revealed that (manufacturers) of groceries supplying a range of nationally and Mergers Commission (MMC) surveyed twelve major suppliers In their 1981 report on Discounts to Retailers, the Monopolies

share of UK manufacturing output going to export and very stable distances; and the generality of the proposition is confirmed by the such as cornflakes and biscuits are not easily transported long there is little opportunity for import substitution. Food products sterling would not be a very important variable in this industry as rate of profit. As regards the trend, the movements of the value of absence of 'buying power' one might expect a higher than average highly concentrated and benefits from high entry barriers; in the As regards the level of profits, the food manufacturing industry is termines the level and trend of profitability of food manufacturers. Before examining the trends, it is appropriate to ask what detrends over the decade in profitability of UK food manufacturing Increases in buying power are evidenced by the downward

> state of the economy would be unlikely to have great effect on the shares of imports as a share of UK consumption. Likewise, the had market power. trends especially if at the beginning of the period manufacturing creased retailer buying power would adversely affect profitability trends; generally food products have low income elasticities. In-

are drawn from financial accounts and not managerial records so adjusted for the effects of inflation, the data have limitations. are based on Department of Industry figures. Despite being based on a survey of 30 firms; the figures for all UK manufacturing dustries' Council and the Food Manufacturers' Federation and are food manufacturing are published by the Food and Drink Inmovements in exchange rates will affect the data. Also, the data from exports or from overseas subsidiaries which means that Apparently no attempt has been made to separate out earnings Figures on profitability are reported in Table 3.3. Those for

Table 3.3 Profitability^a of UK Food Manufacturers and all UK Manufacturers on a Current Cost Accounting Basis

Year	UK Food Manufacturers	UK Food All UK Manufacturers Manufacturers	Difference
1965	14.7	11.0	3.7
1966	11.4	9.2	2.2
1967	11.6	9.6	2.0
1968	10.5	9.9	0.6
1969	9.2	8.7	0.5
1970	6.5	5.8	0.7
1971	6.6	7.2	-0.6
1972	9.8	8.9	0.9
1973	1.3	7.1	-5.8
1974	3.5	3.5	0.0
1975	5.5	2.1	3.4
1976	5.4	4.4	0.9
1977	4.9	4.7	0.2
Mean 1965-1977	7.8	7.1	0.7

employed is averaged and includes net current assets other than trading income before interest and less depreciation, and capital investments, bank overdrafts and loans, together with tangible fixed Note: a. Profitability is measured profits divided by capital employed 'net assets at written down value'

Sources: Food and Drink Industries' Council and Food Manufacturers' Federation cited in MMC (1981) p.197

the usual caveats. (For a full discussion of this point see Fisher and their validity as measures of economic rates of return is subject to McGowan 1983.

come more 'powerful' over the decade. correlated with changes in retailing concentration, the overall declining trend is consistent with the view that buyers have betrend. Whilst year to year movements in profitability are not years 1972-74 where the average of these three years is below the were available.) This decline has been continuous, except for the per cent in 1965 to 4.9 per cent in 1977. (1977 is the last year data measured on a current cost accounting basis, has fallen from 14.7 As shown in Table 3.3, the profitability of food manufacturers

was greater than average to a level which is now average has caused a decline in food manufacturers' profits, from a level which differences are not correlated with changes in retail concentration, but manufacturers. Once again, year on year changes in profitability had to compete with tougher international competition than food could be explained by the fact that UK manufacturing generally has there was a reversal of the trend but the change was not great, and steadily vanished so that the rates of profit equalised. In 1975 and 1976 the overall picture is consistent with the hypothesis that buying power manufacturing; and that between 1968 and 1974 the differences manufacturers were on average considerably more profitable than all with those of all manufacturers. They show that in the late 1960s food Table 3.3 also gives figures comparing food manufacturers' profits

Economies of Scale and Increasing Concentration

penses 4 per cent; net margin 2 per cent. rates 4 per cent (most of which is the cost of stores); other excost of labour 10 per cent (most of which is store labour); rent and sales is made up roughly as follows: cost of purchases 80 per cent; cost structure of a typical multiple grocery retailer. The value of importance of economies of scale it is useful to bear in mind the In gauging the importance of 'buying power' and the potential

per cent of national grocery sales. largest stores (35,000 square feet) account for no more than 0.2 change cannot have 'caused' increases in concentration as even the from higher labour and capital productivity. In recent years the 'most efficient store size' appears to have increased. 10 But this larger stores (see, for instance, Tucker, 1978). Such benefits come Several writers have stressed the cost advantages from operating

> not a large expense for grocery retailing as most of the labour is training costs and lowered warehousing costs. Training costs are have been improved reporting and control systems, reduced scale do not seem to explain the dramatic increases in confrom supplier to the branches. In summary, the benefits of large biscuits, cake, frozen foods, bread and milk are delivered direct warehousing but many of the packaged grocery items such as integral part of the premises eliminating the need for centralised not only do the newer large stores usually have a warehouse as an warehousing used to be an important benefit of scale; however, areas benefits of scale can be small at most. Centralised unskilled; reporting and control costs are not large either; in these centration. At the firm level, the benefits traditionally associated with scale

The Effects of Increasing Concentration on the Role of Price

trading stamps and changes in firms' marketing expenditures. centralisation of price decisions, Tesco's decision to stop using greater emphasis on price. This is evidenced by the trend towards increase in concentration over the decade has been associated with hours, range of products stocked, quality of own label goods and these include advertising, store location, store cleanliness, opening last but not least price. Contrary to what might be expected the Competition in the grocery industry takes place on many fronts;

three) price lists and Tesco, which has stores of all sizes, has three which has stores up to 25,000 square feet, has two (sometimes is greater than 20,000 square feet, has one price list; Sainsbury. volume outlets. Asda, having only large stores, most of whose area different lists. Usually, the highest prices are charged in the lowest baked beans. After such meetings the central office will issue price many cases to fix the prices of key high volume items such as of directors meets weekly on Monday to decide price policy and in lists to branches. Within any organisation there may be several packaged groceries centrally and frequently. Commonly the board Most major grocery multiples make pricing decisions regarding

no deviations. In Asda's case, freedom to alter price is curtailed by alter some prices to suit local conditions; others such as Asda allow Trade sources suggest that the general trend of the industry has the policy of asking suppliers to price the goods in the factory Some firms such as Tesco permit regional or branch managers to

of price as more important than they did before. centralisation of price decisions suggests that retailers view control manager's role away from price towards operations. The greater policy are greater control over price and a focusing of the store been towards fewer lists and less local latitude. The benefits of this

stamps increased the role of price in competition. providing stamps in its large stores. These moves of dropping too. Around the same time, the cooperative movement stopped cooperative stores. In June 1977 Tesco stopped providing stamps, cooperatives also gave stamps redeemable for cash or purchases in offered by Green Shield. Because of Tesco's national position, the per cent. Not surprisingly this provoked competitors to cut prices valued at 2½ per cent of sales, and cut its prices by an average of 4 trading stamps. Customers could redeem the stamps for products of Tesco's strategy in the late 1960s and early 1970s was its use of use price as a central competitive weapon. One of the key elements for the trade. Tesco was not the only store giving stamps, the giving of stamps was an important form of non-price competition There is also evidence that there is an increasing willingness to

price index has fallen over the decade. sidered as a proportion of all advertising or viewed in relation to the times from £71 millions to £178 millions. The combined total conpenditures on grocery and other food items rose about two and a half bining the two sets of expenditures we see that the total of exadvertising merely doubled from £66 millions to £137 millions. Coma quarter times. But, over the same decade, food manufacturers trend in advertising expenditures by all UK firms which rose three and to a rise in the advertising price index of four times and the overall tailers rose to eightfold from £5 millions to £41 millions in comparison risen and manufacturers' advertising has fallen. Between 1970 and products over the last decade. In real terms, retailer advertising has 1980, retail advertising expenditures by grocery and other food re-There has been a significant change in the advertising mix of grocery

advertising, the changing mix increases the role of price. Secondly, advertising tends to focus more on price than manufacturers probably viewing prices more carefully than before. persuasiveness of these messages has increased, the consumer is receives fewer advertising messages than before. Unless the the consumer, indifferent as to who pays for what advertising, now mix has increased the role of price in retailing. First, as retailer There are two reasons for supposing that this change in marketing

The Effects of Increasing Concentration on Collusion

of increasing competition; price as a weapon could have become evidence suggests that each firm faces a highly elastic short run a continuous phenomenon in grocery retailing; secondly the discussed in the next section, there are three reasons for believing cerning the supposed dangers of rising concentration makes just more recognised but less used. One of the chief arguments confor firms manifestly take differing views on price levels and price and thirdly price coordination does not seem to have taken place demand curve suggesting that the incentives to cut price are high this point. In addition to evidence on profit margins which are The increasing emphasis by grocery retailers on price is not proof that price 'collusion' has not taken place. First, new entry has been

outlet grocers from aspiring would-be entrepreneurs, during the cent in 1971 to 8.5 per cent in 1981, and expansion by Kwik Save expansion of Asda which increased its market share from 1.5 per 1970s there have been a number of occurrences of entry and from an insignificant position in 1971 to nearly 5 per cent in 1981. expansion on a sizeable scale. Already noted was the massive Besides the continuous stream of new entry into small single-

cutting can be large. That grocery retailers face a highly elastic demand curve is well asserted and can be shown. highly elastic demand curve means that the gains from price temptation to cut price when margins are believed to be high; a If a firm faces a highly elastic demand curve, there is a greater

a basket of packaged groceries (which is the same basket used for computed, see Appendix 3.1. market share data, have been made available to this researcher. period March 1977 to March 1978, together with some monthly their market share statistics). These monthly price data for the compiled into an index based on the weighted average charged for multiples and the cooperative societies. The price data have been Using these monthly data an estimate of demand elasticity can be AGB has collected price data for groceries offered by major

robust for Asda, Sainsbury or the cooperative stores; this is hardly number. Relationships between price and market share were not good and the results robust, and indicate an elasticity of four. surprising as the data were computed on a national basis whereas When one considers that the data are monthly, this is a high For the data for Tesco, the major national retailer, the fits were

operate a variety of stores and price lists. Sainsbury and Asda are regional companies, and the cooperatives

firm; its board of directors controls 45 per cent of the voting stock significant association with grocery retailing. Sainsbury is a family and until 1965 its parent company Associated Dairies had no top management was recruited from outside the grocery industry backgrounds and run firms very differently. In particular, Asda's Tesco, formerly a family firm, is publicly owned. Sainsbury, Tesco and the cooperatives have come from differing The management of the four most important retailers Asda

theory that there was price collusion. In conclusion, analysis of the data provides little support for the

Effects of Increasing Concentration on Performance

observations combine to suggest that grocery retailing is becoming suggested that price collusion is not taking place. The evidence and that entry barriers are low (but perhaps rising). All these also suggests that firms face a high price elasticity in the short run emphasis has been placed on price competition and it has been centration on the conduct of firms. It has been noted that more more competitive. Thus far the paper has considered the effect of increasing con-

efit from discounts received being passed on in the form of lower support to the retailers' view, namely that consumers should benforcing retailer margins down too. discounts passed on but that increased competition has taken place prices. 12 The evidence goes further, it suggests that not only are efficiency and that the discounts are being passed on. Theory lends high profits are exceptional and caused by unusual operating ary expenditures or distributed as higher profits? Executives of the discounts received by multiple retailers being passed on to the to a level on a par with the rest of UK manufacturing. Are the Sainsbury, Kwik Save and Asda. Executives of retailers say these passed on, and they cite the high profitability of multiples such as food manufacturers often say that the discounts are not being public at large, or are they being kept and dissipated in unnecessbuying power against suppliers, forcing their profit margins down The evidence also suggests that grocery retailers are exercising

and the prices charged to consumers in three towns in April 1979. The sample contained 170 retail outlets; one each of the top four The MMC (1981) examined the prices paid by grocery retailers

> notion that lower input prices are passed on. statistically significant. These results lend some support to the produced a 1 per cent fall in output prices; this relationship was Simple correlations showed that a 1 per cent fall in input prices output prices could be explained by the variance of input prices. packaged grocery products. On average, one-half of the variance in multiples. The products surveyed included 25 brands of eight retailing multiples, eight of the cooperatives and 53 of other

conclusive; another test is needed. deficiencies and the MMC findings cannot be considered as towards independents and smaller multiples. These are serious the variable 'size of store'; moreover its sample was strongly biased mark-ups by size of store; the MMC made no attempt to control for It was remarked earlier that the major multiples charge different

lower output prices, and support for the view that the industry has view that lower input prices have been passed on in the form of retailers over the decade provides further, stronger, support for the become more rather than less competitive. Examining changes in gross and net margins of all grocery

non-grocery type products such as durables and clothes. Even excluded on the basis that they sold significant amounts of several large grocery retailers (such as Asda) appear to have been per cent by 1979 (see Table 3.4). Margin trends for multiples are data reveal that margins were 20.1 per cent in 1971, falling to 15.7 independent grocers (which include voluntary groups), the Census Further difficulty was caused by the fact that in 1976 and 1977, its data, and included them for the data for 1976 through 1979. harder to ascertain. In 1971, the Census excluded cooperatives from Census and the Institute of Grocery Distribution (IGD). For Data on gross margins have been collected by the Office of the

Table 3.4: Gross Margins of Grocers 1971 – 1979

Notes: a includes cooperative stores	Multiple Grocers 1	(including Voluntary Groups) (1–9 Outlets)		_
e stores.	19.9 ^a 18.4 ^b 17.0 ^b 17.1 18.0			1971 1976
	17.0 ^b		15.4	1977
	17.1		15.3	1978
	18.0		15.7	1979

whose sales comprised around one third of large multiple retailers. Source: Census of Distribution (1971); Retail Enquiries 1976–79 b. In 1976 and 1977 large general foods retailers were excluded

margins of multiples in the late 1970s were well below the figure for allowing for these changes, the Census statistics are clear: the gross

cut initiated by Tesco in June 1977. Was the figure for 1971 typical? for 1977 and 1978 are properly interpreted as the result of the price 1977 and 1978 were below those of 1976 and 1979. The lower figures It seems that it was, as is shown by other margin data. A further analysis of Table 3.4 shows that margins for multiples in

trend in gross margins for multiples (see Table 3.5). Data for years after 1978/9 have not been released; apparently they have risen a These data covering the years 1972/3 to 1978/9 confirm the declining little over 1977/8 but are nowhere near the 1972/3 levels. IGD have compiled estimates on gross margins for multiples.

Table 3.5: Gross Margins and Net Margins of Multiple Grocers 1973-1982

Gross Margins Net Margins Difference	Year ending April
20.0 3.5 16.5	1973
19.5 3.5 16.0	1974
18.8 2.5 16.3	1975
18.5 1.7 16.8	1976
18.5 18.9 1.7 2.1 16.8 16.8	1977
18.1	1978 1979
17.8 n.a. 1 1.7 1.9 16.1 n.a.	1979
n.a. 1.9 n.a.	1980
n.a. 1.8 n.a.	1981
n.a. 2.1 n.a.	1982

Note: n.a. not disclosable, but 'above 1979 levels and well below 1973 levels'.

Source: IGD

returns to capital for independent grocers.) margins. (It is not possible to give any data on net margins or on multiples (see Table 3.5). These data show that from 1972/3 to that there has been a significant reduction in gross margins and net 1981/2 net margins have almost halved. It is apparent therefore, The IGD have also compiled estimates of net margins for

period. Likewise, net margins remained constant around 1½ per grocery multiples averaged about 18 per cent between 1965 and Marion, Mueller et al. (1979) report that the gross margin for US of the US the trends described above become more remarkable. 1977 with almost no change between the beginning and end of the When comparison is made between the UK experience and that

The Future

of reversing. If the past has no reason to cause concern, should the The trend towards increasing concentration has not shown any sign

> then there might be cause for concern. been low entry barriers into retailing. If these barriers were to rise future be considered differently? Until now, there appear to have

industry especially those with larger stores. Electronic point of sale systems may confer considerable advantages on larger firms in the effects that make late entry less attractive. individually. Early users may gain advantages through learning stock control as well as reducing the need for labour to price goods systems, of which laser scanning is a part, confer advantages in tailing technology involving laser checkout systems. These new One future barrier to entry might be imminent changes in re-

serious entry barrier to new firms. other retailers; it is doubtful whether site availability will be a by taking over existing retail sites vacated by exiting grocery or lobbies. But this supposed entry barrier can in part be overcome authorities appear less willing to grant planning permission partly because of the absence of land. Even where sites exist, local potential sites is in decline partly due to market saturation and new stores is becoming increasingly difficult. The number of - partly as a result of the opposition of the local small retailer Members of the trade frequently point out that entry by building

and Key Markets. In each case the market shares of the acquired appear to be significant. give rise for concern, but these two recent mergers would not per cent. Clearly a wave of mergers among the lead firms might firms were less than 2 per cent and the combined firms less than 6 Foods and the other between Linfood (the ninth-largest retailer) between Allied Suppliers (the eighth-largest retailer) and Argyll There have been two notable mergers in recent years, one

which trend appears to be continuing into the 1980s. The increased substantial increase in concentration over the years 1970-1980 creases in concentration, and buying power, appear to have had an attributed to the benefits of centralised buying allowing larger concentration, achieved by internal expansion of firms, was chiefly appreciable effect on suppliers. Supplier profitability in the early retailers to purchase more cheaply than smaller ones. The in-This paper has examined the UK grocery trade. It has revealed a

equal to that of all manufacturing. by the late 1970s profitability had fallen, and had reached a level 1960s was considerably higher than the average for manufacturing;

advertising expenditures point to this. As a consequence, one abandonment of the use of trading stamps and the changing mix of input prices being passed on, but that retail margins were falling as margins and net margins fell indicating that not only were lower by the evidence. Over the period 1970-1980 retailers' gross would expect highly competitive behaviour and this was confirmed tailers would be associated with greater price competition. The it was suggested that increasing concentration among grocery re-Because of the low entry barriers and high firm price elasticities.

Appendix 3.1

ship between price and market share is dynamic: sions were run using market share (MS) as the dependent variable and price (P), lagged price (LP) and lagged market share (LMS) as the independent variables. In the model given below, the relation-To calculate the elasticity of demand for Tesco, multiple regres-

$$MS = aP + bLP + cLMS + error.$$

equation (a + b)/(1 - c). The model may be restricted by omitting The long run effect of price on market share is given by the

and Tesco's Price for the Period March 1977 to March 1978 Table A3.1: Relationship Between Tesco's Market Share

	(3)	(2)	3	
	70 (4.7)	52 (12.4)	49 (6.9)	Constant
	-0.62 (4.0)	-0.25 (4.4)	-0.24 (4.0)	ס
2000		-0.17 (3.3)	-0.15 (2.4)	F
The state of the s			0.047 (0.7)	LMS
	14	12	=======================================	df
000	5.9	4.0	3.9	Implied Elasticity

Notes: Figures in brackets are Student 't' statistics; the mean price was 100 and mean market share 10.5.

Data Source: AGB/TCA see text

statistic on LP. (However regardless of the restriction imposed, all the estimates yield high elasticities.) because the 't' statistic on LMS is insignificant, unlike the 't' the long run elasticity in this case is 4.0. This is the best equation the variables LP and LMS. It can be seen from the results shown in Table A3.1 that (statistically) equation (2) provides the best fit and

Notes

- Commission towards mergers in the late 1960s. 1. From time to time antitrust policy has been based seemingly on analysis of concentration effects alone, for example the policy of the US Federal Trade
- new firms to retailing generally. well-established firms. If this were the case then there could be an entry barrier to 2. Some local authorities are said to favour planning applications from existing
- compare the 1971 Report on Census of Distribution with the 1979 Retail Enquiry. The Census figures on commodity line sales of grocery retailers confirm this:
- is based on the shares of the largest eight firms. 4. The Herfindahl index is the sum of the squared market shares; in this case it
- 5. Allied Suppliers originally rose to No. 1 position by acquiring Moores
- share. Sainsbury made no significant grocery retail acquisitions in the decade. 7. Associated Dairies, the parent company of Asda, made no acquisitions in Tesco acquired Cartiers Stores in 1979; Cartiers had 0.5 per cent market
- share. the grocery trade in the decade. 8. Kwik Save acquired Cee-N-Cee in 1979; Cee-N-Cee had 1 per cent market
- International Stores is owned by BAT.
- closed rose from 1,500 square feet to 2,200 square feet. rose from 11,000 square feet to 21,000 square feet and the average size of store 10. Between 1974 and 1979 the average size of new stores opened by multiples
- the London Business School 'Tesco' unpublished case study 11. For a brief description of the origins of the firms and their management see
- 12. In theory, the monopolist takes both cost and demand into account when setting price; a fall in cost of an input causes a profit-maximising monopolist to lower prices unless the input is not used in variable proportions

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THE STRUCTURE AND BEHAVIOUR OF THE BRITISH BUILDING SOCIETY MOVEMENT

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Introduction

Building societies are non-profit organisations, subject to the 1962 Building Societies Act. All societies are registered under the Chief Registrar of Friendly Societies whose role is to ensure that societies are prudently managed and operate securely in their members' interests. Societies must be financially independent, i.e. neither owning subsidiaries nor being a subsidiary of another institution. Their business is restricted to raising funds and making loans which are fully secured against property. They are required to keep certain reserve and liquid asset ratios and to limit the bulk of their loans to a maximum of £60,000. They play an important part in both the savings market, where they attract over 45 per cent of short-term personal sector savings, and the mortgage market where they have usually provided over 80 per cent of house purchase finance.

Building societies have been the subject of many studies in recent years. These have described and analysed their objectives, their method of operation in the mortgage and finance markets and, in particular, their impact on the housing market. In these discussions the behavioural assumption that building societies act as a price fixing 'cartel' has been a relevant factor. Indeed one recent work specifically analysed the benefits and particularly the costs of acting in this way (Gough and Taylor, 1979). However, there has been little examination of the reasons why this cartel exists or of why it has remained stable for so long. These are important questions both in the analysis of the way in which the housing finance market operates and in the determination of policy towards that market. They are particularly relevant at the present time because competitive pressures on building societies have increased with respect to both the inflow of funds and the provision of mortgages.

In this paper we first examine different views of the importance of the cartel. Next we look at how the cartel operated in the relatively uncompetitive environment which obtained until the late