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Competition and Market Structure

in Local Real Estate Markets

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Abstract: The persistence of the standard six percent real estate sales commission across markets and over time calls into question the competitiveness of the residential real estate brokerage industry. While there is anecdotal evidence that some local real estate markets are fairly concentrated, no systematic study of market structures has been conducted. We have collected primary data on the number and market shares of real estate brokers in a variety of small, medium, and large real estate markets across the U.S. for 2007 and 2009. In addition to these cross sectional data, we have also collected longitudinal data on the size distribution of firms for Louisville, KY for a nine-year period. In our cross-sectional analysis of medium and large markets, we find no evidence that market concentration might create problems for competition. We do find that small markets on average have higher HHI's than medium and large markets. The longitudinal analysis reveals that many small brokers are in and out of the market, selling a house or two one year and selling zero houses the next year.

Competition and Market Structure in Local Real Estate Markets Introduction

Residential real estate brokerage is characterized by low barriers to entry and a large number of firms. Furthermore, the Multiple Listing Services (MLS) found in practically every local real estate market act to level the playing field since listings from small firms or new entrants receive equal exposure with those of large established firms. Despite these market attributes, an unusually pervasive and seemingly rigid six percent commission rate structure exists in local real estate brokerage markets across the country.

For this and other reasons, the competitiveness of real estate brokerage in the United States has been an ongoing concern of both federal and state governments. The Federal Trade Commission and the U.S. Department of Justice (DOJ) conducted a joint study of competition in the real estate brokerage industry in 2007.¹ The DOJ's Antitrust Division maintains a website for consumers devoted to competition and real estate.² While most states have real estate commissions that regulate and license real estate agents and brokers, efforts at the state level have not always promoted competition. A 2005 U.S. Government Accountability Office (GAO) study analyzed the potential anticompetitive effects of various state laws that prohibit rebates or set minimum service standards.³

On the other hand, the main industry trade group contends that there is little concentration in the real estate industry and that consumers benefit from competitively determined prices. A 2005 research report by the National Association of Realtors (NAR)

¹ Federal Trade Commission and U.S. Department of Justice, *Competition in the Real Estate Brokerage Industry*, April 2007.

²<u>http://www.justice.gov/atr/public/real_estate/index.htm</u>. A primary emphasis is the commission rates charged by real estate brokers.

³ U.S. Government Accountability Office, *Real Estate Brokerage: Factors That May Affect Price Competition*, August 2005.

concluded that "the residential real estate brokerage industry is fiercely competitive." They analyzed the national market for real estate brokerage and found that the top 100 real estate firms (in 2004) held only 17 percent of the market share.⁴

While the NAR claims that real estate commissions are competitively determined, the GAO points out that commission rates have remained relatively uniform across markets and over time and do not reflect the costs of selling a house.⁵ Yinger (1981), Hsieh and Moretti (2003), and White (2006) present a compelling argument that such fee rigidity is an indicator of a lack of competition. Competition in markets causes prices to approximate economic costs. The cost of selling a house has both a fixed component and a variable component (which may be nonlinear), and the slope of the variable component is less than one. So competition would lead to a commission rate structure that is lower for higher valued houses, instead of the rigid six-percent rate that is observed.⁶ Delcoure and Miller (2002) study brokerage fees charged in other highly industrialized countries. They find a variety of rate structures in other countries that are on average significantly below those prevailing in the U.S., which suggests that the U.S. market for residential real estate brokerage is less than fully competitive.

The number and size distribution of firms is an important determinant of the nature of competition in a market. At the national level, both the NAR and the FTC/DOJ reports point out that the industry is not concentrated.⁷ But as most observers agree, real estate markets are local, so national-level market structure information is not dispositive. To determine whether supplier

⁴ National Association of Realtors, 2005, pp. 1, 9.

⁵ GAO (2005), pp. 9-10, especially fn. 12. Weicher (2006) reviews the empirical evidence on brokerage commission rates, and comments on the paucity of research, primarily because of the difficulty in getting data.

⁶ Carney (1982) offers a search cost explanation for why commission rates should be lower on higher priced homes.

⁷ NAR (2005), pp. 8-9; FTC/DOJ (2007), pp. 30-32.

concentration at the local market level creates the potential for softer competition and price rigidity, data on the number and size shares of firms in local markets are required.

Limited evidence on market structure in local real estate markets does exist. The FTC/DOJ report offered four examples of concentrated local markets: two firms with more than 50% of the northeastern Ohio market, one firm with more than 50% of the Des Moines, IA market, two firms with more than 50% of the State College, PA market, and two firms with more than 75% of the Lincoln, NE market.⁸ Forgey, Mullendore, and Rutherford (1997) studied a medium-sized Texas city and found four-firm concentration ratios of 57% for listing firms and 46% for selling firms. Colwell and Marshall (1986) looked at market structure in Champaign, IL and found lower levels of concentration.⁹

Concern over competition in residential real estate brokerage combined with a paucity of data on market concentration in local real estate markets provides the motivation for this paper. We have collected information on the number and market shares of real estate brokers in a variety of small, medium, and large cities throughout the U.S. We collected these data from the National Association of Realtors official website, www.realtor.com, in fall 2007 and then again in fall 2009. We find that in a minority of the small cities and in only a few of the medium-sized cities, HHI's fall into the range that would invite scrutiny by the FTC and DOJ under the 1997 Horizontal Merger Guidelines. In addition, individual firm market shares tend to be somewhat volatile and HHI's change nontrivially between 2007 and 2009 in a number of different markets.

To further explore the stability of market shares over time, we have also collected data for Louisville, KY from 2000 to 2008. These data enable us to track firms over time from the

⁸ FTC/DOJ (2007), p. 32.

⁹ Dietrich and Holmes (1990) found the Tyneside area in Great Britain to be relatively unconcentrated in the late 1980's.

smallest to the largest during a steady upswing and then through an abrupt downswing in the residential real estate market. Different measures of market structure yield very similar results whether looking at the selling side or the buying side of market transactions. HHI declines very slowly over time, and the identities of the top ten firms are very stable over time. In this market firms do not seem to specialize in one side or the other of market transactions.

The next section of this paper analyzes aspects of the market for residential real estate brokerage that affect the nature of competition. Following that we discuss and analyze the crosssectional data that we have collected on small, medium, and large local real estate markets. Then we discuss and analyze the time series data we have collected for Louisville, KY for 2000-2008. We conclude the paper with a further discussion of competition and collusion in real estate brokerage.

Aspects of Real Estate Brokerage That May Affect Competition

Residential real estate transactions usually involve middlemen.¹⁰ Sellers and buyers typically engage the services of professional real estate agents, many of whom are licensed Realtors®, i.e. members of NAR. Some home sellers do not hire a professional real estate agent to help market their houses, but instead choose the "For Sale by Owner" (FSBO) route.¹¹

¹⁰ Yinger (1981) discusses information and search in real estate markets and models the role of brokers in real estate transactions.

¹¹ FSBO sales constituted 14% of home sales in 2004 (NAR (2005), p. 5). See Hendel, Nevo, and Ortalo-Magne (2009) for a comparison of outcomes when owners marketed their homes themselves vs. when they marketed their homes using a traditional agent and the MLS.

Similarly, some buyers do not directly employ the services of an agent to help in their search for a house. The range of services offered by real estate agents can vary considerably.¹²

The geographic scope of the market is local. There is general agreement on this matter. The 2007 FTC/DOJ report asserts that "competition among brokers is primarily local because real estate is fixed in a geographic location, and buyers and sellers want some in-person interaction with a broker who has experience and expertise relevant to that particular location."¹³ This view is supported by NAR-funded research, which describes the real estate industry as a collection of many local real estate markets.¹⁴

The cost structure is such that there are at most only modest economies of scale in real estate brokerage. That is not surprising, given the nature of the production process. The primary input is labor and human capital on the part of the seller's agent and brokerage firm and the buyer's agent and brokerage firm. Empirical estimation of cost functions for residential real estate brokerage confirms this basic intuition. Zumpano, Elder, and Crellin (1993), Zumpano and Eder (1994), and Anderson, Lewis, and Zumpano (2000), find at best modest economies of scale.¹⁵ As the NAR (2005, Appendix 1) also points out, a survivor analysis of real estate brokerage indicates that small firms compete effectively with larger firms, as evidenced by stability of market shares of different-sized firms over time.

Entry into the real estate industry is relatively costless and agents and brokers enter and exit on a regular basis. States require real estate professionals to be licensed in order to operate. There are two types of licenses, agents and brokers. Agent licensure always precedes broker

¹² See the 2007 FTC/DOJ report for a description of a typical real estate transaction and the range of services offered by different brokers.

¹³ FTC/DOJ (2007), p. 30.

¹⁴ See Sawyer (2005).

¹⁵ Zumpano (2002) summarizes the empirical research on production and costs in real estate brokerage.

licensure and has lower requirements. These requirements vary from state to state, but usually involve classroom hours, an exam, and a licensing fee.¹⁶ Brokerage licensure usually requires practicing as an agent for a specified time, additional classroom hours, an exam, and a licensing fee. Brokers must also line up agents, set up an office and staff it, and advertise. The FTC/DOJ Report (2007, p. 33) did express the concern that brokerage entry appears to be more difficult than agent entry.

The advent of the internet has drastically changed the role of the middleman in a number of markets, for example travel agents and life insurance agents.¹⁷ And the internet is playing an ever-increasing role in real estate transactions. The NAR's web site Realtor.com lists homes for sale in all fifty states and thousands of cities and towns representing over 800 MLS's. Since prospective buyers can directly access listing information themselves through Realtor.com and web sites maintained by various individual brokers and agents, much of the search that used to be done with the assistance of an agent or broker no longer requires their labor input.

The internet has also increased the viability of business models that differ from the traditional full-service brokerage. Various aspects of the real estate transaction can now be separated and performed in different ways, not necessarily involving real estate brokers and agents playing their traditional roles.¹⁸ The GAO (2005, pp. 19-20) described several alternative approaches that are now available to consumers: (1) full-service discount brokerages; (2) limited-service discount brokerages; (3) information and referral companies; and (4) alternative listing

¹⁶ Kentucky is a typical case. Prospective agents must spend 96 hours in real estate courses, pass the state real estate licensing exam, and pay the state licensing fee of \$55. Private accredited real estate courses tend to range from \$500 to \$750, and the licensing exam fee is \$75. See <u>www.krec.ky.gov</u>.

¹⁷ Brown and Goolsbee (2002) find that internet comparison shopping has reduced term life insurance prices by as much as fifteen percent.

¹⁸ See, for example, Bernheim and Meer (2008).

web sites. But despite playing an ever-increasing role in real estate markets, the internet has not yet had any significant impact on commissions.

Real estate professionals have historically stifled price competition through their professional associations and local multiple listing services. The Supreme Court ruled in 1950 that MLS's could not require participating brokers to charge standard commission rates. After many MLS's switched to suggested fee schedules, the DOJ acted in the 1970's to halt this practice. So, formal policies to maintain uniform rates have disappeared.¹⁹

The NAR (2005, pp. 6-8) claims that collusion to set commission rates at the agent level is impossible, because brokers and not agents set commission rates. Brokers negotiate the split of commissions with their agents, with more successful agents being able to claim a larger proportion. Brokers compete vigorously to retain good agents, so agents are able to extract surplus from brokers competing for their services. If collusion is the reason for the persistent uniformity in commission rates, it must occur at the broker level.

White (2006, pp. 5-6) points out two structural features of real estate markets that facilitate collusion. First, the MLS has natural monopoly aspects that enable the collective members of a MLS to exclude "maverick" rivals who are price-cutters. Second, real estate agents operate on both the sell-side and buy-side of the market, and so must continually cooperate with other agents in order to complete transactions. Such a social climate may facilitate the maintenance of high fee levels.

Levitt and Syverson (2008) also analyze collusion on the part of real estate professionals as a possible explanation of why the industry has been successful in preserving its position at the center of real estate transactions, and for the resistance to changes in prices or services rendered.

¹⁹ See the discussion and references in GAO (2005), pp. 12-13.

They offer the necessity of cooperation as a reason, something that sets real estate transactions apart from travel agents, stock brokers, etc. They model the collusive equilibrium, and discuss the role of the number of firms in the market. Such collusion is obviously easier to achieve if the market for real estate brokerage is highly concentrated.

Cross-Section Analysis

A nationally consistent source of data on local real estate markets is available from the NAR, which maintains a website that assembles homes listed on regional MLS's. This website, <u>www.realtor.com</u>, allows users to search/browse through listings practically anywhere in the country by city or ZIP code.²⁰ For a given listing, basic housing characteristics such as number of bedrooms, number of bathrooms, age of the home, ZIP code, square footage, listing price, and type of home (condominium vs. single family dwelling) are usually available along with a number of photographs. Importantly for our purposes, the brokerage firm through which the house is being listed is also reported. As such, it is possible to record all the listings in a city at a given point in time and use this to analyze local market structure.²¹

Realtor.com contains all the houses in a given geographic market where the listing realestate agent uses the MLS.²² Data on one hundred diverse markets were initially collected from

²¹ We focus on the brokerage of existing homes because the selling process for newly built homes is often drastically different. In a new development the relative homogeneity of the homes likely makes the marginal effort to sell a house different than for an existing house and so it is common for one agent or firm to handle the entire development. Also, we noted that it is common for new housing developments to post a single representative listing for the multiple homes available. Furthermore, it is quite common for new home builders to vertically integrate and have a hand in the brokerage and financing of their own homes. A home's construction status is available in the data and those designated as new construction were excluded from the analysis.

²⁰ Realtor.com provides information on approximately 95% of all homes listed on MLS's around the country (GAO, 2005, p. 18).

²² By 2005, web-based brokers had emerged who often made available information about listings to potential customers via websites. The NAR gave individual agents the right to "opt-out" of having their listings displayed by

Realtor.com between October 17th and December 21st, 2007. The 2005 Rand McNally Atlas and the American Community Survey: American Fact Finder were used to select the cities.²³ Since small towns greatly outnumber large cities some stratification was necessary. Specifically, in the case of large cities, 17 were selected at random from the nation's 50 largest. A similar process was used to select 30 midsized cites.²⁴ To ensure geographically separate markets, small towns within 20 miles of a city with over 200,000 residents were excluded. We then randomly selected 43 small markets for closer analysis.

The collection process for an individual market was typically completed within a threeday window, the exceptions being a few very large markets like Atlanta and Los Angeles which took up to five days. Individual market websites were scraped by hand. This process was very labor intensive, which perhaps explains the limited evidence previously collected on local market structures.

After selecting cities based on population size, we observed that the correlation between population and activity in the local real estate market is very imperfect. Since our interest is the market for residential real estate brokerage, we decided to rank markets according to the number of listings instead of metropolitan population. Tables 1a, 1b, and 1c present a list of the observed markets in the data set. Markets have been divided into three categories (large, medium, and small) based on the number of listings observed, not population. This brought us up to eighteen

particular websites. In response to imminent legal action by the Department of Justice in September 2005, the NAR changed the policy to a blanket opt-out allowing realtors to prohibit their listings from appearing on any website other than Realtor.com.

²³ (<u>http://factfinder.census.gov/home/saff/main.html? lang=en</u>).

²⁴ Midsized cities were defined as having a population too small to be counted as one of the 50 largest (less than 362,850) but greater than 40,000 inhabitants. Our sample includes 30 midsized cities so classified. All were selected randomly except for Lexington, KY, Des Moines, IA, and Lincoln, NE. The former was chosen because of the authors' familiarity with local market conditions, and the latter two were chosen to permit comparison with earlier research.

large markets (5,000+ listings), 30 medium markets (1,000-4,999 listings), and 42 small markets (<1,000 listings).

The total number of listings across markets ranged from 103 (Montpelier, VT) to 27,732 (Atlanta, GA), with an average of 3,086 listings per market. There were 20,798 different firms operating with a fairly wide breadth of size, measured by number of listings. Around thirty-five percent of observed real estate brokers had only a single home listing and around half had either one or two listings. Note that in the data, only firms with a positive number of listings are visible, thus firms that were operating but had zero listings on the day of data collection cannot be accounted for. Ninety-nine percent of all firms had fewer than 200 listings and only about a tenth of one percent of all firms had over a thousand listings. The largest firm, which happened to operate in the largest market (Atlanta, GA), held 2,485 listings at the time of data collection. This firm operated several branches differentiated by geographical focus throughout the Atlanta MSA with a wide variety of types of listings.

After analyzing the 2007 data, we decided to re-scrape the medium and small markets. In fall 2009 we collected data from each of the medium and small markets so that we could analyze changes in market structure over time.²⁵ Because scraping and cleaning data from the large markets involved such a significant time cost, and since large markets were uniformly unconcentrated, we did not revisit them.

Table 1a contains information for 18 large markets in 2007 on MSA population, number of listings, number of firms, average listings per firm, HHI, and four-firm concentration ratio. The table also contains information on the four largest brokerage agencies, their total listings,

²⁵ Note that these data only permit a picture of brokerage markets from the perspective of listings. In the next section we are able to compare the size distribution of brokerage firms by listings to the size distribution based on representation of the buyer side of market transactions.

and their market shares. As can be seen, none of these markets have an HHI that would have invited scrutiny by the USDOJ or the FTC if a merger between two brokers had been proposed, i.e. these markets all fall into the competitive category since HHI < 1,000.²⁶ The average HHI across the 18 large markets in 2007 was 378.

Table 1b contains information for 30 medium-sized markets, i.e. markets having between 1,000 and 4,999 listings for 2007. Again, MSA population, number of listings, number of firms, average listings per firm, HHI, four-firm concentration ratio, and identity and market share of the top four brokerage firms are included. The average HHI in these medium-sized markets in 2007 was 837, falling to 797 in 2009. In 2007, seven of the thirty markets had HHI's greater than 1,000: Des Moines, IA, Salem, OR, Lansing, MI, Buffalo, NY, Springfield, MO, Augusta, GA, and Peoria, IL. Only Des Moines, IA had an HHI that exceeded 1,800, which in 2007 would have been classified as highly concentrated according to the USDOJ/FTC Horizontal Merger Guidelines.²⁷ Interestingly, the HHI in Des Moines declined from 3,320 to 1,538 between 2007 and 2009.

Other medium-sized markets experienced significant changes in market structure over the two-year interval in our sample. The HHI increased from 734 to 1,023 in Santa Fe, NM and from 1,157 to 1,665 in Lansing, MI. The HHI decreased from 953 to 639 in Pueblo, CO and from 1,652 to 1,388 in Augusta, GA. Considerable variation in individual brokerage firm market shares and market ranks also occurred over the two-year observation period. The most extreme

²⁶ Market shares can also be calculated based on dollar volume of sales. Unsurprisingly, HHI's based on listings are highly correlated with HHI's based on dollar volume of sales.

²⁷ The USDOJ and FTC recently issued revised HHI classifications. Markets with HHI < 1,500 are classified as unconcentrated, markets with HHI between 1,500 and 2,500 are classified as moderately concentrated, and markets with HHI > 2,500 are classified as highly concentrated. See <u>http://www.justice.gov/atr/public/guidelines/hmg-2010.html#5c</u>. The old cutoffs were < 1,000 for unconcentrated, between 1,000 and 1,800 for moderately concentrated, and > 1,800 for highly concentrated.

change occurred in Des Moines, IA, where market leader Iowa Realty saw its market share decline from 53% in 2007 to 29% in 2009. Iowa Realty was apparently the firm singled out by the FTC/DOJ in their 2007 Report (p. 32) which offered Des Moines as an example of a highly concentrated market.

Table 1c contains information for 42 small markets, i.e. markets having fewer than 1,000 listings, for 2007. If concentration is a problem in residential real estate brokerage, it is in smaller markets that we would expect to observe it. The average HHI in small markets was 1,177 in 2007 and 1,308 in 2009, indicating that smaller markets are considerably more concentrated than larger markets. In 2007, 25 of the 43 small markets had HHI's greater than 1,000, with the HHI exceeding 1,800 in six markets. The highest levels of market concentration occurred in Blytheville, AR, with an HHI of 2,114, and Carlsbad, NM, with an HHI of 2,244. Both are very small markets, with 221 and 125 total listings in 2007, respectively.

Overall market structures fluctuated considerably between 2007 and 2009 in the small market sample. In Carlsbad, NM, for example, the HHI increased from 2,244 to 3,166, while in Roswell, NM the HHI decreased from 2,030 to 1,616. Sizable changes also occurred in individual firm market shares. In Blue Springs, MO, for example, Reece & Nichols increased their market share from 19.8% in 2007 to 34.0% in 2009. In LaPine, OR, RE/MAX Sunset Realty increased their market share from 12.6% to 30.5% over the same period.

There is evidence from these data of concentration in some small markets, but not in medium and large markets. And market shares are fluid, in that there are nontrivial changes from 2007 to 2009, especially in a few instances when the market leader has a sizable share in 2007. These results suggest that further longitudinal analysis of market structure in residential real estate brokerage would be useful.

Longitudinal Analysis

Results from the cross section analysis raise the following question: How stable are firm market shares over time? One thing we are able to do that previous researchers have not done before is to look at the size distribution of firms in a particular market over an extended period of time. We have collected extensive data on market transactions and the dollar volume of sales, for both the sell-side broker and the buy-side broker, for Louisville, KY from January of 2000 through November of 2008. These data allow us to track firms from the smallest to the largest over the entire time period. We are thus able to understand changes in the market positions of industry leaders, as well as survival and growth of firms on the competitive fringe.

We obtained these data from the MLS of Louisville, KY, which has a population of roughly 500,000 residents, with an additional 700,000 in the metro area. Information was available for all homes sold through the MLS from January 1, 2000 through November 29, 2008.²⁸ Observations with a missing firm identifier variable, either on the listing or selling side, were not included in the analysis. The primary data set used for analysis begins with 113,014 sold houses. The average house was 1,880 square feet, had three bedrooms, two full baths, a basement, central air-conditioning, and was 30.7 years old. It was on the market for 74 days and sold for \$162,457.²⁹

Table 2 contains information for each year from 2000 through 2008 on the number of transactions, the number of listing firms, the average number of sales per firm, and the HHI. We

²⁸ To check for consistency, we compared one hundred randomly selected sold homes from the MLS data with local county property records (<u>http://jeffersonpva.ky.gov/</u>). While these records were much less detailed than the MLS data, no inconsistencies were found.

²⁹ The median price was \$118,000.

calculate HHI's for both the selling side and the buying side, based on both the number and the dollar-volume of sales. Table 2 also contains the identity and market share of the top ten residential brokerage firms based on the number of transactions in which the firm was the listing broker.³⁰

The residential real estate boom and bust are immediately evident in these data. The number of houses sold increases steadily from 10,315 in 2000 to 15,076 in 2006. The number of real estate brokers with at least one listing increased from 350 to 511 over the same period.³¹ The average number of sales per firm stayed fairly steady, hovering around 30 transactions per year. After the 2006 peak, the number of houses sold in the first eleven months of 2008 declined sharply to 10,960. The number of listing brokers fell to 442, and the average transactions per firm fell to 24.8.

The market became increasingly less concentrated over the 2000 to 2008 period, through both boom and bust. We have computed HHI's using market shares of listing brokers (seller side), calculated by both number of transactions and dollar volume of transactions. We have also calculated HHI's using market shares of buyer-side brokers by number of transactions and dollar volume of transactions. The steady decline in concentration when the housing market was thriving and when the market tanked is clearly evident regardless of which of the four measures is used.

³⁰ While a firm wishing to list a client's home on the MLS must be a dues paying member, browsing the listings is an option available to anyone. As such, real estate agents who specialize in representing buyers may not join the MLS, but they can still participate in an MLS transaction as the selling agent. In the MLS data, all non-member firms were all coded identically and thus are indistinguishable from one another. We therefore lump these firms together in our analysis. In 2000, non-member firms accounted for less than 1% of transactions. That number steadily increased until 2006 when the percentage of transactions involving non-member offices reached 3.4%. If each of those transactions were associated with an atomistic non-member office, our calculation of the buy-side HHI would be overstated by nearly 12 points.

³¹ This increase is consistent with the findings of Hsieh and Moretti (2003).

Closer scrutiny of the different measures turns up several interesting findings. HHI's using the number of transactions are smaller than HHI's using the dollar volume of sales. This result implies that higher-priced houses are disproportionately handled by larger real estate brokerage firms. HHI's declined most sharply in the years immediately before and immediately after the peak year of 2006. This result suggests that larger firms lost market share to smaller firms and new entrants during years of rapid market growth, but when the market turned down sharply these smaller firms and new entrants were able to hold on to their business relatively better than the larger firms.

Market shares and rank of the largest real estate firms are fairly stable over the entire period of observation, even though market concentration was declining overall. From 2000 until 2002, the identities of the top ten listing firms don't change. In each of the years 2003, 2004, 2006, and 2007, one new firm cracks the top ten. Two new entrants show up in 2005. Only in 2008, a year of considerable turmoil in residential real estate, is there any significant movement in and out of the top of the market. One other observation is that the largest firms generally do not seem to specialize in representing either sellers or buyers. For example, nine of the top ten top listing firms in 2000 were also among the top ten firms representing buyers in housing transactions.

The overall geographic market is fairly unconcentrated, however, it is possible that distinct sub-markets exist and that real estate brokers specialize by geographic region within the greater metropolitan area. To determine whether concentrated sub-markets exist we analyzed sales in distinct areas within the city.³² Table 3 contains data on the number of sales, HHI, and

³² The Louisville MLS divides the city into 26 areas. Of the 26, several were very inactive and had relatively few recorded transactions. We therefore included only those areas with at least 100 recorded transactions in 2006. Specific definitions of the areas and a map can be found at <u>www.MLSKY.net</u>.

identities and market shares of the top four firms for 2000 and 2006 in nineteen different geographic areas within the greater Louisville metropolitan area. This information allows us to analyze whether there are significant geographic sub-markets within the area covered by the MLS, where tacit collusion might evolve if significant pockets of concentration exist.

While several of these smaller geographic areas exhibit greater concentration than the entire urban area, they also exhibit much greater fluidity in market shares over time. For example, in Area 10 the HHI in 2000 was 4,720 and the largest firm had a market share of 66.9%. That area experienced considerable growth in the number of transactions between 2000 and 2006, and the HHI declined to 1,667 and the largest firm's market share dropped to 35.4%. Similarly, in Area 31, the number of transactions increased almost by an order of magnitude from 2000 to 2006, the HHI declined from 2,812 to 1,181, and the largest firm's market share dropped from 37.5% to 9.4%. So there is no evidence that these smaller areas constitute distinct geographic markets.

So far we have concentrated on market shares and changes in market shares of the largest firms in the market. With this dataset, we can also gain some understanding of the market behavior of smaller firms, including those who show up in market transactions data in one year but are absent because they had no transactions the next. Figure 1 presents a histogram of the number of listing (seller side) firms having one sale, two sales, three sales, etc. in 2000, along with the number of brokers representing the buyer side having one sale, two sales, etc. As is evident, the large majority of residential real estate brokerage firms are fairly small. Among the 350 brokers having at least one listing, 95 (27%) had just one listing and 57 (16%) had just two listings for the entire year.

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To further understand survival and growth of smaller brokers, we identified all the firms in the sample that only had one listing transaction in 2000. We then tracked the listings of these firms over the 2000 to 2008 period. Table 4 contains information on sales in subsequent years of the 95 real estate brokers who had exactly one sale in 2000. Sixteen of the 95 firms disappeared completely from the market, i.e. had zero listings in any of the following eight years. Thirty-one firms grew on average over the 2000 to 2008 period, i.e. averaged more than one transaction per year. Of these firms, however, only five brokers had at least one transacted listing in each of the succeeding eight years. It is clear from these data that a large number of small brokers are in and out of the market, selling a house or two in one year and then selling zero houses in the next year.

Conclusions

The persistence of the standard six percent real estate sales commission across markets and over time calls into question the competitiveness of the residential real estate brokerage industry. While there is anecdotal evidence that some local real estate markets are fairly concentrated, no systematic study of market structures has been conducted. We have collected primary data on the number and market shares of real estate brokers in a variety of small, medium, and large real estate markets across the U.S. for 2007 and 2009. In addition to these cross sectional data, we have also collected longitudinal data on the size distribution of firms for Louisville, KY for a nine-year period.

In our cross-sectional analysis of medium and large markets, we find no evidence that market concentration might create problems for competition. Among 18 large markets and 30 medium markets in 2007, only Des Moines, IA had an HHI that exceeded 1,800, the level which would have caused it to be categorized as highly concentrated according to the USDOJ/FTC Horizontal Merger Guidelines. And two years later, the HHI in Des Moines declined from 3,320 to 1,538.

If concentration is a problem in real estate brokerage, we would expect it to be most prevalent in small markets. We do find that small markets on average have higher HHI's than medium and large markets. But in only 6 out of 42 small markets did the HHI in 2007 exceed 1,800. Small markets also exhibited considerable volatility in HHI's, as individual firm market shares often changed significantly between 2007 and 2009.

The volatility in market shares we observed in our 2007 and 2009 snapshots prompted us to follow firms in one particular market for an extended period of time. We tracked real estate brokers from smallest to largest in Louisville, KY from 2000 to 2008. Overall concentration declined steadily over the entire period. The identities and market shares of the top ten firms were very stable in this particular market. At the other end of the spectrum, among the 350 brokers having at least one listing in 2000, 95 had just one listing and 57 had just two listings for the entire year. When we tracked the 95 firms having just one listing for the next eight years, 16 firms disappeared completely while only 5 firms had at least one transacted listing every year. The longitudinal analysis reveals that many small brokers are in and out of the market, selling a house or two one year and selling zero houses the next year.

The competitiveness of real estate brokerage in the U.S. has been an ongoing concern at both the federal and state level, evidenced by a persistent and pervasive six percent sales commission structure. There are several possible explanations for the lack of competition, but one explanation that our research refutes is a concentrated size distribution of firms in local real estate brokerage markets. A more likely culprit is the monopoly position of the National Association of Realtors in licensing Realtors® at the national level, the control of MLS's by local boards of Realtors® at the local geographic market level, and the business/social culture that has evolved among agents who at times represent sellers and at other times represent buyers, and who must cooperate with other agents in order to complete transactions.

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Table 1A: Large Markets (5,000+ listings)

City	ННІ 2007	Listings 2007	Firms 2007	Listings per Firm, 2007	Largest 4 Firms, 2007	Firm's Listings	Firm's Market Share
Atlanta, GA	251	27,732	1,065	26.0	Coldwell Banker Residential Brokerage	2,485	9.0
Pop: 4,247,981	-01	_,,,,,	2,000	2010	REMAX GREATER ATLANTA	1,975	7.1
· op: //= ////oo1					Morris & Raper Realtors	1,630	5.9
					Harry Norman Realtors	1,213	4.4
					4-FIRM TOT	,	26.3
Baltimore, MD	592	8,951	577	15.5	Long & Foster Real Estate, Inc.	1,797	20.1
Pop: 2,552,994		-)			Coldwell Banker Residential Brokerage	1,062	11.9
					RE/MAX Sails Inc.	257	2.9
					Prudential Carruthers REALTORS	181	2.0
					4-FIRM TOT		36.8
Los Angeles, CA	229	8,110	1,756	4.6	Coldwell Banker Res. Brokerage	985	12.3
Pop: 12,365,627		0)110	2,700		PRUDENTIAL CALIF. REALTY	567	7.1
					Re/Max Marguee Partners	252	3.2
					Keller Williams Realty Sunset	99	1.2
					4-FIRM TOT		23.8
Philadelphia, PA	291	9,865	481	20.5	Prudential Fox & Roach Realtors	1,345	13.6
Pop: 5,687,147	251	5,005	401	20.5	Coldwell Banker Preferred	434	4.4
100.3,007,147					RE/MAX Affiliates	320	3.2
					CENTURY 21 Advantage Gold Estate	313	3.2
					4-FIRM TOT		24.5
Dallas, TX	252	7,870	837	9.4	Ebby Halliday, REALTORS	807	10.3
Pop: 5,161,544	252	7,870	637	5.4	Coldwell Banker Residential Brokerage	516	10.3 6.6
rop. 5,101,544					VIRGINIA COOK, REALTORS	317	4.0
					Allie Beth Allman & Assoc.	274	3.5
					4-FIRM TOT		24.3
Phoenix, AZ	258	12,822	691	18.6	Realty Executives	1,432	11.2
Pop: 3,251876	250	12,022	091	10.0	West USA Realty	782	6.1
Pop: 3,251876					John Hall & Associates	505	6.1 3.9
						467	3.9
					Coldwell Banker Residential Brokerage		
C D' CA	220	6.064	1 100		4-FIRM TOT	,	24.9
San Diego, CA	328	6,864	1,199	5.7	Prudential California Realty	982	14.3
Pop: 2,813,833					Coldwell Banker Res. Brokerage	594	8.7
					Century 21 Award	261	3.8
					RE/MAX Associates	229	3.3
					4-FIRM TOT	,	30.1
St. Louis, MO	484	8,525	632	13.5	Coldwell Banker Gundaker	1,736	20.4
Pop: 2,698,687					RE/MAX Properties West	284	3.3
					RE/MAX Results	228	2.7
					Realty Executives of St. Louis	191	2.2
					4-FIRM TOT		28.6
Portland, OR	347	6,792	466	14.6	RE/MAX Equity Group	1,005	14.8
Pop: 1,927,881					The Hasson Company Realtors	295	4.4
					Prudential NW Properties	290	4.3
					Realty Trust Group, Inc.	279	4.1

Denver, CO 166 11,637 1,205 9.7 Coldwell Banker Residential Brokerage 887 Pop: 2,179,240	27.5
Cincinnati, OH 763 8,201 195 42.1 Sibcy Cline, Inc. 1,232 Pop: 2,009,632 763 8,201 195 42.1 Sibcy Cline, Inc. 1,232 Indianapolis, IN 305 10,140 719 14.1 F. C. Tucker Company Comey Shepherd, Realtors 815 Pop: 1,525,104 305 10,140 719 14.1 F. C. Tucker Company Comey Shepherd, Realtors 844 CeNTURY 21 Realty Group Keller Williams Indpls Metro 835 844 287 San Antonio, TX 235 8,951 611 14.7 Keller Williams Realty Legacy Group Keller Williams 876 Pop: 1,711,703 515 7,483 362 20.7 HER Real Lining Columbus, OH 515 7,483 362 20.7 HER Real Lining Columbus, OH 1,231 Pop: 1,612,694 515 7,483 362 20.7 HER Real Lining Columbus, OH 515 7,483 362 20.7 HER Real Lining Columbus, OH 2,728 Pop: 1,612,694 515 7,483 362 20.7 HER Real Lining Columbus, OH 207 4.FIRM TOTAL: 2,728 Charlotte, NC 297 10,511 880 11.9 Allen Tate Company RE/MAX Executive Realty 608 Jackso	7.6
Cincinnati, OH 763 8,201 195 42.1 Sibcy Cline, Inc. Coldwell Banker West Shell 974 Pop: 2,009,632 763 8,201 195 42.1 Sibcy Cline, Inc. Coldwell Banker West Shell 974 Indianapolis, IN 305 10,140 719 14.1 F. C. Tucker Company Carpenter, REALTORS 844 Centrolity, IN 305 10,140 719 14.1 F. C. Tucker Company Carpenter, REALTORS 844 Pop: 1,525,104 305 10,140 719 14.1 F. C. Tucker Company Carpenter, REALTORS 844 Pop: 1,717,703 235 8,951 611 14.7 Keller Williams Realty Coldwell Banker D'Ann Harper, REALTORS 385 Pop: 1,711,703 235 7,483 362 20.7 HER Real Living COLDWEL BANKER KING THOMPSON 942 RE/MAX Town Center, LLC 2778 2778 Allen Tate Company Carl Banker Max Eealty 631 Pop: 1,133,0,448 297 10,511 880 11.9 Allen Tate Company RE/MAX Security Realty 632 Pop: 1,132,750 486 10,260 </td <td>6.5</td>	6.5
Indianapolis, IN 763 8,201 195 42.1 Sibcy Cline, Inc. 4-FIRM TOTAL: 2,295 Indianapolis, IN 305 10,140 719 14.1 F. C. Tucker Company 1,133 Pop: 1,525,104 305 10,140 719 14.1 F. C. Tucker Company 1,193 Carpenter, REALTORS 844 Centrum V21 Realty Group 487 San Antonio, TX 235 8,951 611 14.7 Keller Williams Indpis Metro 351 Pop: 1,711,703 235 7,483 362 20.7 HER Real Living 317 Columbus, OH 515 7,483 362 20.7 HER Real Living 1221 Columbus, OH 515 7,483 362 20.7 HER Real Living 131 Pop: 1,320,448 297 10,511 880 11.9 Allen Tate Company 1,341 R/MAX Town Center, LL 2,980 20.7 HER Real Living 20.7 4-FIRM TOTAL: 2,728 Charlotte, NC 297 10,511	3.0
Cincinnati, OH 763 8,201 195 42.1 Sibcy Cline, Inc. Coldwell Banker West Shell 974 Pop: 2,009,632 305 10,140 719 14.1 F. C. Tucker Company Carpenter, REALTORS 815 Indianapolis, IN Pop: 1,525,104 305 10,140 719 14.1 F. C. Tucker Company Carpenter, REALTORS 844 CENTURY 21 Realty Group 487 844 251 267 278 876 San Antonio, TX Pop: 1,711,703 235 8,951 611 14.7 Keller Williams Indpis Metro 4-FIRM TOTAL: 2,875 San Antonio, TX Pop: 1,711,703 235 8,951 611 14.7 Keller Williams Realty Coldwell Banker D'Ann Harper, REALTORS 385 Columbus, OH 515 7,483 362 20.7 HER Real Living COLDWELL BANKER KING THOMPSON 942 RE/MAX Town Center, LLC C21 Joe Walker 278 4-FIRM TOTAL: 2,728 Charlotte, NC Pop: 1,330,448 297 10,511 880 11.9 Allen Tate Company RE/MAX Executive Realty Helen Adams Realty Wilkinson & Associates 410 Jacksonvv	2.7
Pop: 2,009,632 Image: Second Sec	19.7
Huff Realty 889 Comey Shepherd, Realtors 889 4-FIRM TOTAL: 3.910 Indianapolis, IN Pop: 1,525, 104 305 10,140 719 14.1 F. C. Tucker Company Carpenter, REALTORS 844 CENTURY 21 Realty Group 487 447 (CeNTURY 21 Realty Group 844 487 San Antonio, TX Pop: 1,711,703 235 8,951 611 14.7 Keller Williams Realty Coldwell Banker D'Ann Harper, REALTORS 385 385 Columbus, OH Pop: 1,711,703 235 7,483 362 20.7 HER Real Living RE/MAX Town Center, LLC Coldwell Banker D'Ann Harper, REALTORS 357 278 Columbus, OH Pop: 1,320,448 297 10,511 880 11.9 Allen Tate Company RE/MAX Town Center, LLC Coldwell Banker D'Ann Harper, REALTORS Coldwell Banker D'Ann Harper, REALTORS 357 278 Charlotte, NC Pop: 1,330,448 297 10,511 880 11.9 Allen Tate Company RE/MAX Secutive Realty Helen Adams Realty Wilkinson & Associates 4-FIRM TOTAL: 2,980 Jacksonville, FL Pop: 1,122,750 486 10,260 575 17.8 WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS 470	15.0
Indianapolis, IN Pop: 1,525,10430510,14071914.1F. C. Tucker Company Carpenter, REALTORS Carpenter, REALTORS Keller Williams Indpls Metro1,13 4.FIRM TOTAL:1,43 3,910San Antonio, TX Pop: 1,711,7032358,95161114.7Keller Williams Realty Columbus, OH Pop: 1,612,6942358,95161114.7Keller Williams Realty Columbus, OH Pop: 1,612,694815 2,7287,48336220.7HER Real Living COLUWA Concenter, LLC COLUWA Concenter, LLC <b< td=""><td>11.9</td></b<>	11.9
Indianapolis, IN 305 10,140 719 14.1 F. C. Tucker Company 4-FIRM TOTAL: 3,910 Pop: 1,525,104 305 10,140 719 14.1 F. C. Tucker Company 1,193 Carpenter, REALTORS 844 CENTURY 21 Realty Group 447 Keller Williams Indpls Metro 351 4-FIRM TOTAL: 2,875 San Antonio, TX 235 8,951 611 14.7 Keller Williams Realty 876 Columbus, OH 215 7,483 362 20.7 HER Real Living 1,221 Columbus, OH 515 7,483 362 20.7 HER Real Living 1,221 Columbus, OH 515 7,483 362 20.7 HER Real Living 1,221 Columbus, OH 297 10,511 880 11.9 Allen Tate Company 4-FIRM TOTAL: 2,728 Charlotte, NC 297 10,511 880 11.9 Allen Tate Company 1,341 RE/MAX Sociates 410 4-FIRM TOTAL: 2,980 416	10.8
Indianapolis, IN Pop: 1,525,104 305 10,140 719 14.1 F. C. Tucker Company Carpenter, REALTORS 844 CENTURY 21 Realty Group Keller Williams Indpls Metro 1,193 San Antonio, TX Pop: 1,711,703 235 8,951 611 14.7 Keller Williams Realty Coldwell Banker D'Ann Harper, REALTORS 876 Coldwell Banker D'Ann Harper, REALTORS 885 Century 21 United - A Epstein 366 Legacy Group Keller Williams 317 Columbus, OH Pop: 1,612,694 515 7,483 362 20.7 HER Real Living COLDWELL BANKER KING THOMPSON 942 RE/MAX Town Center, LLC COLDWELL BANKER Charlotte, NC 297 10,511 880 11.9 Allen Tate Company RE/MAX Executive Realty Helen Adams Realty Wilkinson & Associates 4.5IRM TOTAL: 2,980 Jacksonville, FL Pop: 1,122,750 486 10,260 575 17.8 WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS 470	9.9
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Keller Williams Indpls Metro351 4-FIRM TOTAL:351 2,875San Antonio, TX Pop: 1,711,7032358,95161114.7Keller Williams Realty876 Coldwell Banker D'Ann Harper, REALTORS381 366 Legacy Group Keller Williams317 366 Legacy Group Keller Williams317 317Columbus, OH Pop: 1,612,6945157,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON942 942 827Charlotte, NC Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty Wilkinson & Associates1,341 421 410 421Jacksonville, FL Pop: 1,122,75048610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY PRUDENTIAL NETWORK REALTY PRUDENTIAL NETWORK REALTY351 470	8.3
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San Antonio, TX Pop: 1,711,703 235 8,951 611 14.7 Keller Williams Realty Coldwell Banker D'Ann Harper, REALTORS Legacy Group Keller Williams 876 Columbus, OH Pop: 1,612,694 515 7,483 362 20.7 HER Real Living COLDWELL BANKER KING THOMPSON 942 RE/MAX Town Center, LLC Pop: 1,612,694 515 7,483 362 20.7 HER Real Living COLDWELL BANKER KING THOMPSON 942 RE/MAX Town Center, LLC Pop: 1,330,448 297 10,511 880 11.9 Allen Tate Company RE/MAX Executive Realty 621 Jacksonville, FL Pop: 1,122,750 486 10,260 575 17.8 WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS 470	3.5
Pop: 1,711,703Coldwell Banker D'Ann Harper, REALTORS385 Century 21 United - A Epstein Legacy Group Keller Williams317 317 317Columbus, OH Pop: 1,612,6945157,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON942 357 21 Joe WalkerCharlotte, NC Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty1,341 4-FIRM TOTAL:Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty608 410 4-FIRM TOTAL:Jacksonville, FL Pop: 1,122,75048610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS1996 91	28.3
Columbus, OH Pop: 1,612,6945157,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON RE/MAX Town Center, LLC C21 Joe Walker1,221 208 208 201Charlotte, NC Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty Helen Adams Realty Wilkinson & Associates1,341 208 4-FIRM TOTAL:1,341 2,728Jacksonville, FL Pop: 1,122,75048610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS196 4-FIRM TOTAL:591 2,980	10.1
Legacy Group Keller Williams317 4-FIRM TOTAL:317 1944Columbus, OH Pop: 1,612,6945157,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON942 942 RE/MAX Town Center, LLC C21 Joe Walker357 208 4-FIRM TOTAL:357 208 208Charlotte, NC Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty Helen Adams Realty621 608 4-FIRM TOTAL:1,341 621Jacksonville, FL Pop: 1,122,75048610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS1,996 991	4.5
Legacy Group Keller Williams3174-FIRM TOTAL:1944Columbus, OH Pop: 1,612,6945157,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON942Pop: 1,612,6947,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON942Pop: 1,612,6947,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON942Pop: 1,612,6947,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON942Pop: 1,612,69429710,51188011.9Allen Tate Company RE/MAX Executive Realty621Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty621Helen Adams Realty6084104-FIRM TOTAL:2,980Jacksonville, FL Pop: 1,122,75048610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY1,996Pop: 1,122,75048610,26057517.8KATSON REALTY CORP RE/MAX SPECIALISTS1,996	4.2
Columbus, OH Pop: 1,612,6945157,48336220.7HER Real Living COLDWELL BANKER KING THOMPSON RE/MAX Town Center, LLC C21 Joe Walker1,221 COLDWELL BANKER KING THOMPSON RE/MAX Town Center, LLC 208 4-FIRM TOTAL:942 208 2,728Charlotte, NC Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty Helen Adams Realty Wilkinson & Associates1,341 621 608 410 4-FIRM TOTAL:621 2,980Jacksonville, FL Pop: 1,122,75048610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS1,996 91 470	3.7
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Ref. MAX Town Center, LLC357Charlotte, NC29710,51188011.9Allen Tate Company RE/MAX Executive Realty1,341Pop: 1,330,44810,51188011.9Allen Tate Company RE/MAX Executive Realty621Jacksonville, FL48610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS1,996	16.3
Charlotte, NC Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty Wilkinson & Associates1,341 621 608 410 4-FIRM TOTAL:2,728Jacksonville, FL Pop: 1,122,75048610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS1,996 91 91	12.6
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Charlotte, NC Pop: 1,330,44829710,51188011.9Allen Tate Company RE/MAX Executive Realty Wilkinson & Associates1,341 621 608 Wilkinson & AssociatesJacksonville, FL Pop: 1,122,75048610,26057517.8WATSON REALTY CORP PRUDENTIAL NETWORK REALTY RE/MAX SPECIALISTS1,996 608	2.8
Pop: 1,330,448 RE/MAX Executive Realty 621 Helen Adams Realty 608 Wilkinson & Associates 410 4-FIRM TOTAL: 2,980 Jacksonville, FL 486 Pop: 1,122,750 10,260 STS 17.8 WATSON REALTY CORP 1,996 PRUDENTIAL NETWORK REALTY 591 RE/MAX SPECIALISTS 470	36.5
Helen Adams Realty 608 Wilkinson & Associates 410 4-FIRM TOTAL: 2,980 Jacksonville, FL 486 10,260 575 17.8 WATSON REALTY CORP 1,996 Pop: 1,122,750 PRUDENTIAL NETWORK REALTY 591 RE/MAX SPECIALISTS 470	12.8
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Jacksonville, FL 486 10,260 575 17.8 WATSON REALTY CORP 1,996 Pop: 1,122,750 PRUDENTIAL NETWORK REALTY 591 591 70	3.9
Pop: 1,122,750 PRUDENTIAL NETWORK REALTY 591 RE/MAX SPECIALISTS 470	28.4
Pop: 1,122,750 PRUDENTIAL NETWORK REALTY 591 RE/MAX SPECIALISTS 470	19.5
	5.8
VANGUARD REALTY INC GMAC 207	4.6
	3.9
4-FIRM TOTAL: 3,454	33.7
Birmingham, AL 785 5,758 214 26.9 REALTYSOUTH - ADMIN OFFICE 1,442	25.0
Pop: 1,052,238 RE/MAX SOUTHERN HOMES 432	7.5
LAH Real Estate 274	4.8
RE/MAX ADVANTAGE 202	3.5
4-FIRM TOTAL: 2,350	40.8
St. Petersburg, FL 221 7,241 650 11.1 Coldwell Banker Residential Real Estate 601	8.3
Pop: 2,395,997* Charles Rutenberg Realty Inc 518	7.2
Keller Williams Gulf Coast 391	5.4
RE/MAX Action First 231	3.4
4-FIRM TOTAL: 1,741	24.0

Table 1B: Medium Markets (1,000-4,999 listings)

							Listings	Listings			Firm's			Firm's
C '	HHI	HHI	Listings	Listings	Firms	Firms	Per Firm	Per Firm		Firm's	Market		Firm's	Market
City	2007	2009	2007	2009	2007	2009	2007	2009	Largest 4 Firms, 2007	Listings	Share	Largest 4 Firms, 2009	Listings	Share
Dayton,OH	619	757	4,941	4,467	190	184	26.0	24.3	Coldwell Banker Heritage Realtors	758	15.4	Coldwell Banker Heritage Realtors	802	18.0
Pop: 848,853									IRONGATE INC. REALTORS	624	12.6	IRONGATE INC. REALTORS	704	15.8
									Real Living Realty Services	442	9.0	Real Living Realty Services	334	7.5
									Big Hill GMAC Real Estate	266	5.4	Sibcy Cline Inc.	226	5.1
									4-FIRM TOTAL:	2,090	42.3	4-FIRM TOTAL:	2,066	46.3
Albuquerque,NM	720	721	4,536	3,511	425	380	10.7	9.2	Coldwell Banker Legacy	1,077	23.7	Coldwell Banker Legacy	819	23.3
Pop: 729,649									Keller Williams Realty	318	7.0	Keller Williams Realty	260	7.4
									Vaughan Company REALTORS	243	5.4	ALLSTAR REALTY	204	5.8
									ALLSTAR REALTY	212	4.7	Vaughan Company REALTORS	166	4.7
									4-FIRM TOTAL:	1,850	40.8	4-FIRM TOTAL:	1,449	41.3
Grand Rapids, MI	532	506	4,529	3,087	220	207	20.6	14.9	Five Star Real Est	603	13.5	Greenridge Realty	392	12.7
Pop: 740,482									Greenridge Realty	533	11.9	Keller Williams of GR East	362	11.7
									Keller Williams of GR East	336	7.5	Five Star Real Est	271	8.8
									Coldwell Banker Hoppough	232	5.2	RE/MAX OF G.R. INC.	179	5.8
									4-FIRM TOTAL:	1,704	38.2	4-FIRM TOTAL:	1,204	39.0
Bakersfield,CA	414	448	4,488	1,631	388	292	11.6	5.6	Watson Touchstone Real Estate	614	13.7	Coldwell Banker Preferred	219	13.5
Pop: 661,645	1	-				-	-	-	Coldwell Banker Preferred	463	10.3	Watson Touchstone Real Estate	208	12.8
	1								Coldwell Banker America West	286	6.4	RE/MAX Magic	102	6.3
									Bakersfield Premier Realty	172	3.8	Keller Williams Realty/ Haggin	55	3.4
									4-FIRM TOTAL:	1.535	34.2	4-FIRM TOTAL:	584	35.9
Charleston,SC	823	964	4,360	3,026	304	248	14.3	12.2	PRUDENTIAL CAROLINA REAL ESTATE	1,174	27.0	CAROLINA ONE REAL ESTATE	862	28.8
Pop: 549,033	025	504	4,500	3,020	504	240	14.5	12.2	Daniel Island Real Estate	1,174	4.6	AGENTOWNED PREFERRED GROUP	179	6.0
rop. 349,033									AGENTOWNED PREFERRED GROUP	198	3.2	Daniel Island Real Estate	175	4.6
										140				
									RE/MAX PROFESSIONAL REALTY		2.9	Coldwell Banker United	120	4.0
									4-FIRM TOTAL:	1,637	37.7	4-FIRM TOTAL:	1,298	43.3
Oklahoma City,OK	173	221	4,298	3,878	333	345	12.9	11.2	Keller Williams-Green Meadow	216	5.0	Keller Williams-Green Meadow	258	6.7
Pop: 1,095,421									Churchill-Brown and Associates	215	5.0	Metro First Realty	243	6.3
									PRUDENTIAL ALLIANCE GROUP	179	4.2	Churchill-Brown and Associates	228	5.9
									Keller Williams-Northwest	171	4.0	Dean Lemons and Associates	159	4.1
									4-FIRM TOTAL:	781	18.2	4-FIRM TOTAL:	888	22.9
Nashville, TN	323	322	4,159	4,243	313	328	13.3	12.9	Keller Williams Realty	337	8.1	Village Real Estate Services	331	7.8
Pop: 1,311,789									Village Real Estate Services	319	7.7	Fridrich & Clark Realty	297	7.0
									RE/MAX Elite	303	7.3	Crye-Leike Inc. REALTORS	285	6.7
									Crye-Leike Inc. REALTORS	238	5.7	Re/Max Elite	280	6.6
									4-FIRM TOTAL:	1,197	28.8	4-FIRM TOTAL:	1,193	28.1
Ocala,FL	578	627	4,020	3,078	278	220	14.5	14.0	FOXFIRE REALTY	551	13.8	FOXFIRE REALTY	476	15.5
Pop: 258,216									CB/ELLISON REALTY	467	11.7	CB/ELLISON REALTY	383	12.5
									RE/MAX Premier Realty	389	9.7	KELLER WMS CORNERSTONE RE	284	9.2
									KELLER WMS CORNERSTONE RE	388	9.7	RE/MAX Premier Realty	252	8.2
									4-FIRM TOTAL:	1,795	45.0	4-FIRM TOTAL:	1,395	45.3
Salt Lake City,UT	279	161	3,682	3,913	455	513	8.1	7.6	Coldwell Banker Residential Brokerage	429	11.7	Equity Real Estate	244	6.2
Pop: 968,858	_	-	-,				-	-	Prudential Utah Real Estate	250	6.8	RE/MAX Associates	165	4.2
									Allpro Realty Group Inc.	184	5.0	Coldwell Banker Residential Brokerage	162	4.1
									Keller Williams Utah Realtors	100	2.7	Prudential Utah Real Estate	160	4.1
									4-FIRM TOTAL:	963	26.2	4-FIRM TOTAL:	731	18.7
Freene CA	621	695	3,166	1,297	377	259	8.4	5.0	Guarantee Real Estate	503	16.2	London Properties, Ltd.	227	17.5
Fresno,CA	021	695	5,100	1,297	5//	259	0.4	5.0						
Pop: 799,407					1				London Properties, Ltd.	503	15.9	Guarantee Real Estate	226	17.5
					1				CENTURY 21 C. Watson Realty	191	6.0	CENTURY 21 C. Watson Realty	54	4.2
	1								Realty Concepts, Ltd	153	4.8	Realty Concepts, Ltd	52	4.0
									4-FIRM TOTAL:	1,359	42.9	4-FIRM TOTAL:	559	43.2
Boise,ID	403	537	3,108	2,541	202	200	15.4	12.7	Group One	285	9.8	Coldwell Banker Tomlinson	383	15.1
Pop: 464,480					1				Keller Williams Realty Boise	275	9.5	Group One	277	10.9
					1				Holland Realty	250	8.6	Keller Williams Realty Boise	260	10.2
					1				Coldwell Banker Aspen	181	6.2	Market Pro Real Estate Service	102	4.0
									4-FIRM TOTAL:	991	34.2	4-FIRM TOTAL:	1,022	40.3
Des Moines,IA	3,320	1,538	2,968	1,900	15	43	197.9	44.2	Iowa Realty	1,240	52.7	Iowa Realty	551	29.1
Pop: 481,394	1				1	1		1	Coldwell Banker Mid-America Group	335	14.3	RE/MAX Real Estate Group	283	14.9

									PRUDENTIAL FIRST REALTY RE/MAX Real Estate Group	327 253	13.9 10.8	Coldwell Banker Mid-America Group RE/MAX Real Estate Concepts	257 240	13.6 12.7
									4-FIRM TOTAL:		91.7			70.2
Wishits KC		770	2,639	2,345	118	121	22.4	19.4	PRUDENTIAL DINNING-BEARD	2,155 354	13.4	4-FIRM TOTAL: J.P. WEIGAND & SONS	1,331 442	18.9
Wichita,KS	555	770	2,639	2,345	118	121	22.4	19.4	J.P. WEIGAND & SONS	354 282	13.4	J.P. WEIGAND & SONS PRUDENTIAL DINNING-BEARD	442 304	18.9
Pop: 571,116														
									COLDWELL BANKER STUCKY & ASSOC	213	8.1	Coldwell Banker Plaza Rea	237	10.1
									PLAZA REAL ESTATE	176	6.7	REALTY EXECUTIVES CENTER !	130	5.6
									4-FIRM TOTAL:	1,025	38.9	4-FIRM TOTAL:	1,113	47.5
Lexington,KY	672	546	2,593	2,462	173	174	15.0	14.1	Rector-Hayden, Realtors	539	20.8	Rector-Hayden, Realtors	375	15.2
Pop: 408,326									Milestone Realty Consultants	176	6.8	Bluegrass Sotheby's Int Realty	212	8.6
									RE/MAX Creative Realty	157	6.1	Keller Williams Bluegrass Real	202	8.2
									Keller Williams Bluegrass Real	149	5.7	Milestone Realty Consultants	157	6.4
									4-FIRM TOTAL:	1,021	39.4	4-FIRM TOTAL:	946	38.4
Spokane,WA	766	649	2,372	4,312	114	144	20.8	29.9	Tomlinson Black	532	22.4	Tomlinson Black	765	17.8
Pop: 417,937									Keller Williams Spokane	216	9.1	Keller Williams Spokane	409	9.5
									Coldwell Banker Northwest Group	134	5.7	Windermere Manito	347	8.1
									Windermere Manito	134	5.7	Coldwell Banker Northwest Group	226	5.3
									4-FIRM TOTAL:	1,016	42.8	4-FIRM TOTAL:	1,747	40.6
Arlington,TX	408	343	2,258	1,415	394	329	5.7	4.3	Ebby Halliday, REALTORS	205	9.1	Keller Williams Realty Arlington	146	10.3
Pop: 1,710,318*	.00	3 13	2,230	1,715	334	525	5.7	1.5	CENTURY 21 Judge Fite Co.	194	8.6	Ebby Halliday, REALTORS	124	8.8
· 0p. 1,/ 10,010									-	194			86	
									Re/Max Associates Of Arlington		8.5	Re/Max Pinnacle Group Realtors		6.1
									Keller Williams - DFW Metro So	149	6.6	Re/Max Associates Of Arlington	76	5.4
									4-FIRM TOTAL:	741	32.8	4-FIRM TOTAL:	432	30.6
Salem,OR	1,156	949	2,170	2,359	142	140	15.3	16.9	COLDWELL BANKER MOUNTAIN WEST	581	26.8	COLDWELL BANKER MOUNTAIN WEST	548	23.3
Pop: 347,214									Prudential R.E. Professionals	304	14.0	Prudential R.E. Professionals	336	14.3
									Re/Max Equity Group	243	11.2	Re/Max Equity Group	194	8.2
									WINDERMERE PACIFIC WEST PROP	155	7.1	WINDERMERE PACIFIC WEST PROP	158	6.7
									4-FIRM TOTAL:	1,283	59.1	4-FIRM TOTAL:	1,236	52.4
Santa Fe,NM	734	1,023	2,078	2,129	156	146	13.3	14.6	Santa Fe Properties	390	18.8	Sotheby's International Realty, Inc.	486	22.9
Pop: 129,292									Prudential Santa Fe RE	203	9.8	Santa Fe Properties	293	13.8
									Sotheby's International Realty, Inc.	173	8.3	Prudential Santa Fe RE	252	11.9
									BARKER REALTY, INC.	166	8.0	Santa Fe Realty Partners, Inc.	193	9.1
									4-FIRM TOTAL:	932	44.9	4-FIRM TOTAL:	1,224	57.6
Lansing,MI	1,157	1,665	2,047	1,461	93	87	22.0	16.8	Coldwell Banker Hubbell	452	22.2	Coldwell Banker Hubbell	520	35.6
Pop: 455,516	1,157	1,005	2,047	1,401	55	0,	22.0	10.0	RE/MAX R.E. Professionals	403	19.8	RE/MAX R.E. Professionals	236	16.2
100.433,310									BriarWood Realty	257	12.6	Tomie Raines	100	6.9
									Tomie Raines	125	6.1	Keller Williams Realty Lansing - East	72	4.9
									4-FIRM TOTAL:	1,237	60.6	4-FIRM TOTAL:	928	63.6
Buffalo,NY	1,744	1,784	1,923	1,715	79	110	24.3	15.6	Hunt Real Estate ERA	568	29.5	RealtyUSA	530	30.9
Pop: 1,170,111									RealtyUSA	500	25.0	Hunt Real Estate ERA	463	27.0
									MJ Peterson Real Estate	134	7.0	MJ Peterson Real Estate	135	7.9
									Cash Realty of NY, Incorporate	41	2.1	Gurney Becker & Bourne	57	3.3
									4-FIRM TOTAL:	1,243	64.6	4-FIRM TOTAL:	1,185	69.1
	1,560	1,592	1,867	1,843	125	109	14.9	16.9	Murney Associates	618	33.2	Murney Associates	605	32.9
Springfield,MO									Carol Jones REALTORS LLC	314	16.9	Carol Jones REALTORS LLC	299	16.3
									Coldwell Banker - Vanguard	176	9.5	Coldwell Banker - Vanguard	233	12.7
									Re/Max House Of Brokers	125	6.7	Re/Max House Of Brokers	103	5.6
								1	4-FIRM TOTAL:		66.3	4-FIRM TOTAL:	1,240	67.4
										1.233	00.3			
Pop: 368,374	507	583	1,710	1.673	112	110	15 3	15.2		1,233 218				14.6
Pop: 368,374 Little Rock,AR	507	583	1,710	1,673	112	110	15.3	15.2	Crye-Leike REALTORS	218	12.8	Crye-Leike REALTORS	245	14.6 9.4
Pop: 368,374 Little Rock,AR	507	583	1,710	1,673	112	110	15.3	15.2	Crye-Leike REALTORS Keller Williams Realty LR Branch	218 142	12.8 8.3	Crye-Leike REALTORS Coldwell Banker RPM	245 157	9.4
Pop: 368,374 Little Rock,AR	507	583	1,710	1,673	112	110	15.3	15.2	Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates	218 142 129	12.8 8.3 7.5	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY	245 157 136	9.4 8.1
Pop: 368,374 Little Rock,AR	507	583	1,710	1,673	112	110	15.3	15.2	Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates THE JANET JONES COMPANY	218 142 129 129	12.8 8.3 7.5 7.5	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch	245 157 136 120	9.4 8.1 7.2
Pop: 368,374 Little Rock,AR Pop: 610,518									Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL:	218 142 129 129 618	12.8 8.3 7.5 7.5 36.1	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL:	245 157 136 120 658	9.4 8.1 7.2 39.3
Pop: 368,374 Little Rock,AR Pop: 610,518 Providence,RI	507	583 397	1,710	1,673 795	201	110	15.3	4.7	Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL: Coldwell Banker Residential Brokerage	218 142 129 129 618 210	12.8 8.3 7.5 7.5 36.1 12.5	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL: Residential Properties, Ltd.	245 157 136 120 658 88	9.4 8.1 7.2 39.3 11.1
Pop: 368,374 Little Rock,AR Pop: 610,518 Providence,RI									Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL: Coldwell Banker Residential Brokerage RE/MAX PREFERRED	218 142 129 129 618 210 151	12.8 8.3 7.5 7.5 36.1 12.5 9.0	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL: Residential Properties, Ltd. Coldwell Banker Residential Brokerage	245 157 136 120 658 88 88 86	9.4 8.1 7.2 39.3 11.1 10.8
Pop: 610,518 Providence,RI									Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL: Coldwell Banker Residential Brokerage RE/MAX PREFERRED KELLER WILLIAMS REALTY	218 142 129 129 618 210 151 109	12.8 8.3 7.5 7.5 36.1 12.5 9.0 6.5	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL: Residential Properties, Ltd.	245 157 136 120 658 88 88 86 62	9.4 8.1 7.2 39.3 11.1 10.8 7.8
Pop: 368,374 Little Rock,AR Pop: 610,518 Providence,RI									Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL: Coldwell Banker Residential Brokerage RE/MAX PREFERRED	218 142 129 129 618 210 151	12.8 8.3 7.5 7.5 36.1 12.5 9.0	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL: Residential Properties, Ltd. Coldwell Banker Residential Brokerage	245 157 136 120 658 88 88 86	9.4 8.1 7.2 39.3 11.1 10.8
Pop: 368,374 Little Rock,AR									Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL: Coldwell Banker Residential Brokerage RE/MAX PREFERRED KELLER WILLIAMS REALTY	218 142 129 129 618 210 151 109	12.8 8.3 7.5 7.5 36.1 12.5 9.0 6.5	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL: Residential Properties, Ltd. Coldwell Banker Residential Brokerage RE/MAX PREFERRED	245 157 136 120 658 88 88 86 62	9.4 8.1 7.2 39.3 11.1 10.8 7.8
Pop: 368,374 Little Rock,AR Pop: 610,518 Providence,RI Pop: 1,582,997									Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, McNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL: Coldwell Banker Residential Brokerage RE/MAX PREFERRED KELLER WILLIAMS REALTY RE/MAX 1ST CHOICE	218 142 129 618 210 151 109 97	12.8 8.3 7.5 7.5 36.1 12.5 9.0 6.5 5.8	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL: Residential Properties, Ltd. Coldwell Banker Residential Brokerage RE/MAX PREFERRED Westcott Properties	245 157 136 120 658 88 88 86 62 43	9.4 8.1 7.2 39.3 11.1 10.8 7.8 5.4
Pop: 368,374 Little Rock,AR Pop: 610,518 Providence,RI Pop: 1,582,997	398	397	1,685	795	201	170	8.4	4.7	Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, MCNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL: Coldwell Banker Residential Brokerage RE/MAX PREFERRED KELLER WILLIAMS REALTY RE/MAX 1ST CHOICE 4-FIRM TOTAL: Nancy Chandler Associates Inc.	218 142 129 618 210 151 109 97 567	12.8 8.3 7.5 7.5 36.1 12.5 9.0 6.5 5.8 33.7 15.0	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL: Residential Properties, Ltd. Coldwell Banker Residential Brokerage RE/MAX PREFERRED Westcott Properties 4-FIRM TOTAL: William E. Wood & Associates	245 157 136 120 658 88 88 66 62 43 279 277	9.4 8.1 7.2 39.3 11.1 10.8 7.8 5.4 35.1
Pop: 368,374 Little Rock,AR Pop: 610,518 Providence,RI	398	397	1,685	795	201	170	8.4	4.7	Crye-Leike REALTORS Keller Williams Realty LR Branch Adkins, MCNeill, Smith & Associates THE JANET JONES COMPANY 4-FIRM TOTAL: Coldwell Banker Residential Brokerage RE/MAX PREFERRED KELLER WILLIAMS REALTY RE/MAX 1ST CHOICE 4-FIRM TOTAL:	218 142 129 618 210 151 109 97 567 235	12.8 8.3 7.5 7.5 36.1 12.5 9.0 6.5 5.8 33.7	Crye-Leike REALTORS Coldwell Banker RPM THE JANET JONES COMPANY Keller Williams Realty LR Branch 4-FIRM TOTAL: Residential Properties, Ltd. Coldwell Banker Residential Brokerage RE/MAX PREFERRED Westcott Properties 4-FIRM TOTAL:	245 157 136 120 658 88 86 62 43 279	9.4 8.1 7.2 39.3 11.1 10.8 7.8 5.4 35.1 16.2

									4-FIRM TOTAL:	833	53.0	4-FIRM TOTAL:	779	45.6
Pueblo,CO	953	639	1,517	1,147	119	116	12.8	9.9	REMAX of PUEBLO	353	23.3	Coldwell Banker Partners R.E.	178	15.6
Pop: 141,472									Coldwell Banker Partners R.E.	207	13.7	Keller Williams Performance Realty	134	11.8
									Keller Williams Performance Realty	172	11.3	REMAX of PUEBLO	96	8.4
									JONES-HEALY REALTORS	94	6.2	REMAX PUEBLO CENTRAL	88	7.7
									4-FIRM TOTAL:	826	54.5	4-FIRM TOTAL:	496	43.5
Lubbock,TX	808	646	1,379	1,161	81	81	17.0	14.3	COLDWELL BANKER RICK CANUP	217	15.8	COLDWELL BANKER RICK CANUP	163	14.0
Pop: 249,700									RE/MAX Lubbock	180	13.1	RE/MAX Lubbock	119	10.3
									KELLER WILLIAMS REALTY	159	11.6	WESTMARK REALTORS	97	8.4
									WESTMARK REALTORS	115	8.4	KELLER WILLIAMS REALTY	90	7.8
									4-FIRM TOTAL:	671	49.0	4-FIRM TOTAL:	469	40.4
Augusta,GA	1,652	1,388	1,300	1,570	43	89	30.2	17.6	MEYBOHM REALTORS	408	31.4	MEYBOHM REALTORS	483	30.8
Pop: 499,684									BLANCHARD & CALHOUN REAL ESTATE	269	20.7	BLANCHARD & CALHOUN REAL ESTATE	266	16.9
									RE/MAX AUGUSTA, INC.	119	9.1	KELLER WILLIAMS REALTY AUGUSTA	89	5.7
									CENTURY 21 Jeff Keller Realty	108	8.3	CENTURY 21 Jeff Keller Realty	85	5.4
									4-FIRM TOTAL:	904	69.5	4-FIRM TOTAL:	923	58.8
Sioux Falls,SD	763	909	1,289	1,088	52	61	24.8	17.8	HJN Team Real Estate	192	14.9	HJN Team Real Estate	225	20.7
Pop: 187,093									HEGG REALTORS	151	11.7	HEGG REALTORS	147	13.5
									RE/MAX Professionals Inc	149	11.6	RE/MAX Professionals Inc	107	9.8
									the real estate company	129	10.0	the real estate company	103	9.5
									4-FIRM TOTAL:	621	48.2	4-FIRM TOTAL:	582	53.5
New Haven,CT	419	401	1,261	480	169	103	7.5	4.7	Coldwell Banker Residential Brokerage	173	13.7	Coldwell Banker Residential Brokerage	53	11.1
Pop: 824,008									PRUDENTIAL CONNECTICUT REALTY	88	7.0	H. Pearce Real Estate Co., Inc.	44	9.2
									H. Pearce Real Estate Co., Inc.	76	6.0	WEICHERT REALTORS - Regional Props	34	7.1
									WEICHERT REALTORS - Regional Props	70	5.6	WILLIAM RAVEIS REAL ESTATE	26	5.4
									4-FIRM TOTAL:	407	32.3	4-FIRM TOTAL:	157	32.8
Peoria,IL	1,168	1,388	1,098	1,045	46	37	23.9	28.2	Re/Max Unlimited	227	20.6	Re/Max Unlimited	218	20.9
Pop: 366,899									Jim Maloof/REALTOR	197	17.9	Jim Maloof/REALTOR	208	19.9
									Coldwell Banker Devonshire	145	13.2	Coldwell Banker Devonshire	176	16.9
									Keller Williams Premier Realty	105	9.6	Keller Williams Premier Realty	118	11.3
									4-FIRM TOTAL:	674	61.3	4-FIRM TOTAL:	720	69.0

Table 1C: Small Markets (<1,000 listings)

							Listings	Listings			Firm's			Firm's
	HHI	нні	Listings	Listings	Firms	Firms	Per Firm	Per Firm		Firm's	Market		Firm's	Market
City	2007	2009	2007	2009	2007	2009	2007	2009	Largest 4 Firms, 2007	Listings	Share	Largest 4 Firms, 2009	Listings	Share
Avondale,AZ	256	190	973	456	208	151	4.7	3.0	Realty Executives	71	7.3	Keller Williams Realty Prof. Partners	29	6.4
Pop: 76,939									Fulton Homes Sales Corporation	60	6.2	DPR Realty	20	4.4
									West USA Realty	58	6.0	West USA Realty	20	4.4
									Keller Williams Realty Prof. Partners	43	4.4	Realty Executives	18	4.0
									4-FIRM TOTAL	232	24.0	4-FIRM TOTAL	87	19.1
Springfield,IL	1,439	1,947	942	794	44	39	21.4	20.4	Re/Max Professionals	291	30.9	Re/Max Professionals	256	32.2
Pop: 201,473									Real Estate Group	135	14.3	Real Estate Group	215	27.1
									Aspen Real Estate Company	119	12.6	Coldwell Banker Devonshire	77	9.7
									Coldwell Banker Devonshire	64	6.8	Charles Robbins, REALTORS	43	5.4
									4-FIRM TOTAL	609	64.6	4-FIRM TOTAL	591	74.4
Hampton,VA	662	584	933	935	67	82	13.9	11.4	LONG & FOSTER REAL ESTATE	112	12.0	LONG & FOSTER REAL ESTATE	117	12.6
Pop: 146,437									GSH Real Estate	108	11.6	Prudential Towne Realty	99	10.6
. ,									Greg Garrett Realty.Com	102	10.9	Greg Garrett Realty.Com	80	8.6
									William E. Wood & Associates	76	8.2	Abbitt Realty Company	75	8.1
									4-FIRM TOTAL	398	42.7	4-FIRM TOTAL	371	39.8
BlueSprings,MO	808	1,468	843	887	102	60	8.3	14.8	Reece & Nichols	167	19.8	Reece & Nichols	302	34.1
0., -		,			-			-				Keller Williams Realty - Eastland		
Pop: 48,080									Re/Max Heartland, Realtors	108	12.8	Partn	108	12.2
									Realty Executives Metro One	82	9.7	Re/Max Heritage	64	7.2
									Keller Williams Realty - Eastland Partn	74	8.8	Chartwell Realty Llc	44	5.0
									4-FIRM TOTAL	431	51.1	4-FIRM TOTAL	518	58.4
St.Joseph,MO	1,800	2,248	784	719	32	28	24.5	25.7	Reece & Nichols Ide Capital	253	32.3	Reece & Nichols Ide Capital	286	39.8
ourosepinitio	1,000	2,210	701	, 15	52	20	2.1.5	2017	RE/MAX PROFESSIONALS OF ST.	200	52.0	RE/MAX PROFESSIONALS OF ST.	200	5510
Pop: 122,336									JOSEPH	134	17.1	JOSEPH	114	15.9
100.122,000									Prudential Summers Realtors	107	13.7	Prudential Summers Realtors	108	15.0
									COLDWELL BANKER GENERAL PROP	98	12.5	COLDWELL BANKER GENERAL PROP	84	11.7
									4-FIRM TOTAL	592	75.5	4-FIRM TOTAL	592	82.3
McAllen,TX	486	517	759	617	92	98	8.3	6.3	Keller Williams Realty RGV	113	14.9	Keller Williams Realty RGV	103	16.8
wich wich, it x	400	517	755	017	52	50	0.5	0.5	Relief Williams Reality Rov	115	14.5	Trendsetters Real Estate &	105	10.0
Pop: 569,463									RE/MAX 1ST Choice	65	8.6	Investments	50	8.1
. op: 505) 105									Trendsetters Real Estate &	00	0.0	intestitients	50	0.1
									Investments	56	7.4	Star Properties GMAC Real Estate	37	6.0
									Star Properties GMAC Real Estate	38	5.0	RE/MAX 1st Choice	33	5.4
									4-FIRM TOTAL	272	35.8	4-FIRM TOTAL	223	36.3
Auburn,AL	725	1,003	730	754	40	46	18.3	16.4	21 Paramount Real Estate, Inc.	109	14.9	Porter Properties	141	18.8
Pop: 115,092	725	1,005	750	734	40	40	10.5	10.4	FIRST REALTY	105	14.5	FIRST REALTY	130	17.3
100.113,032									Porter Properties	49	6.7	PRUDENTIAL PREFERRED REAL EST.	88	11.7
									SUMMIT REALTY SOUTHEAST	49	6.7	PRESTIGE PROPERTIES, INC.	71	9.4
									4-FIRM TOTAL	313	42.8	4-FIRM TOTAL	430	57.2
Manchester,NH	360	347	686	561	129	114	5.3	4.9	RE/MAX Omega Group	73	10.6	Keller Williams Realty-Metropolitan	47	8.4
Pop: 380,841	300	347	080	501	125	114	5.5	4.5	Prudential Verani Realty	54	7.9	Prudential Verani Realty	47	8.2
100.300,041										54	7.5	Coldwell Banker Residential	40	0.2
									Coldwell Banker Residential Brokerage	44	6.4	Brokerage	39	7.0
									The Masiello Group	38	5.5	RE/MAX Omega Group	37	6.6
									4-FIRM TOTAL	209	30.5	4-FIRM TOTAL	169	30.1
Sumter,SC	783	805	684	676	42	36	16.3	18.8	ADVANTAGE REALTY GROUP , INC.	92	13.5	ADVANTAGE REALTY GROUP	83	12.3
Pop: 104,464	705	005	004	070	42	50	10.5	10.0	RUSSELL & JEFFCOAT REALTORS	92 82	12.0	RUSSELL & JEFFCOAT REALTORS	80	12.5
1 0p. 104,404									ERA-Wilder Realty-Sumter	73	12.0	ERA-Wilder Realty-Sumter	80 74	11.9
									ASSOCIATES REALTY	73 64	9.4	PRUDENTIAL John M. Brabham	74	11.0
									4-FIRM TOTAL	64 311	9.4 45.6	4-FIRM TOTAL	74 311	46.1
													110	40.1

Pop: 71,845	1						1	1	Re/max 37 House	93	13.9	Prudential Almon Realty	128	16.4
									Aspen Real Estate, LLC	70	10.5	Windermere Real Estate	67	8.6
									Windermere Real Estate	64	9.6	John L Scott	63	8.1
									4-FIRM TOTAL	329	49.2	4-FIRM TOTAL	400	51.1
Eau Claire,WI	717	806	664	689	54	47	12.3	14.7	CB BRENIZER	95	14.3	CB BRENIZER	137	19.9
Pop: 148,337									C21 METRO REALTY INC	90	13.6	C21 METRO REALTY INC	69	10.0
									KLEVEN REAL ESTATE, INC.	45	6.8	DONNELLAN REAL ESTATE	53	7.7
									EAU CLAIRE REALTY INC 4-FIRM TOTAL	44 274	6.6 41.3	EDINA/CHIPPEWA VALLEY	44 303	6.4 44.0
Joplin,MO	1,450	1,820	635	654	30	28	21.2	23.4	CHARLES BURT REALTORS	178	28.0	4-FIRM TOTAL PRO 100 INC. REALTORS	187	28.6
Pop: 157,322	1,450	1,820	035	054	30	28	21.2	23.4	PRO 100 INC. REALTORS	178	28.0 19.5	CHARLES BURT REALTORS	187	28.6
F0p. 137,322												KELLER WILLIAMS REALTY OF SW		
									KELLER WILLIAMS REALTY OF SW MO	77	12.1	MO	125	19.1
									Associates, Ltd	44	6.9	REMAX CLASSIC	42	6.4
									4-FIRM TOTAL	423	66.6	4-FIRM TOTAL	508	77.7
Iverness,FL	857	1,015	609	658	70	51	8.7	12.9	CENTURY 21 J W Morton Real Estate	117	19.3	CENTURY 21 J W Morton Real Estate	77	16.9
Pop: 6,789									Keller Williams of Citrus County	72	11.9	RE/MAX Realty One	74	16.2
									RE/MAX Realty One	67	11.0	American Realty & Inv.	59	12.9
									American Realty & Inv. ERA 4-FIRM TOTAL	65 321	10.7 52.9	Keller Williams of Citrus County 4-FIRM TOTAL	59 269	12.9 59.0
Mankato, MN	1,026	1,203	594	614	41	33	14.5	18.6		111	18.7		163	26.6
Pop: 85,712	1,026	1,203	594	614	41	33	14.5	18.6	American Way Realty REALTY EXECUTIVES RIVER VALLEY	96	18.7 16.2	American Way Realty REALTY EXECUTIVES RIVER VALLEY	70	26.6 11.4
F0p. 85,712									CENTURY 21 ATWOOD REALTY, Inc.	30 71	12.0	RE/MAX Dynamic Associates	67	10.9
									RE/MAX Dynamic Associates	68	11.5	CENTURY 21 ATWOOD REALTY, Inc.	63	10.3
									4-FIRM TOTAL	346	58.3	4-FIRM TOTAL	363	59.1
Yuba City,CA	997	944	551	333	76	78	7.3	4.3	RE/MAX GOLD	123	23.4	RE/MAX GOLD	81	25.1
Pop: 139,149	557	5	551	555	70		710		CENTURY 21 Select Real Estate, Inc.	81	15.4	CENTURY 21 Select Real Estate, Inc.	41	12.7
									Associated Brokers A R.E. Corp	52	9.9	Associated Brokers A R.E. Corp	21	6.5
									ERA - SHOWCASE REAL ESTAT	37	7.0	ERA - SHOWCASE REAL ESTATE	19	5.9
									4-FIRM TOTAL	293	55.7	4-FIRM TOTAL	162	50.2
Bellevue,NE	1,196	858	539	276	43	36	12.5	7.7	CBSHOME Real Estate	134	24.8	CBSHOME Real Estate	54	19.6
Pop: 109,569									NP Dodge	97	18.0	Prudential Ambassador R E	32	11.6
									DEEB Realty	48	8.9	DEEB Realty	30	10.9
									Celebrity Homes Inc	33	6.1	NP Dodge	27	9.8
									4-FIRM TOTAL	312	57.8	4-FIRM TOTAL	143	51.8
Owensboro,KY	1,161	1,400	489	481	17	16	28.8	30.1	CENTURY 21 Partners	87	17.8	REMAX PROFESSIONAL REALTY GRP	108	22.5
Pop: 109,875									L. STEVE CASTLEN, REALTORS	75	15.4	L. STEVE CASTLEN, REALTORS	97	20.2
									COLDWELL BANKER REALTY GROUP	71	14.6	CENTURY 21 Partners	58	12.1
									REMAX PROFESSIONAL REALTY GRP 4-FIRM TOTAL	61 294	12.5 60.3	COLDWELL BANKER REALTY GROUP	54 317	11.2 65.9
Scranton,PA	1.129	940	467	408	40	41	11.7	10.0	ERA One Source Realty	109	23.4	4-FIRM TOTAL ERA One Source Realty	78	19.3
Pop: 560,625	1,129	940	407	408	40	41	11.7	10.0	SEMIAN & GRESS REAL ESTATE	73	23.4 15.7	CLASSIC PROPERTIES	58	19.5
100.300,023									CLASSIC PROPERTIES	51	11.0	SEMIAN & GRESS REAL ESTATE	49	14.5
												Coldwell Banker Town & Country		
									Coldwell Banker Town & Country Prop	42	9.0	Prop	25	6.2
									4-FIRM TOTAL	275	59.1	4-FIRM TOTAL	210	51.9
Lincoln,NE	1,156	895	422	442	38	44	11.1	10.1	Bancwise Real Estate Solutions	114	27.1	Nebraska Home Sales	87	19.7
Pop: 266,787									Nebraska Home Sales	59	14.0	Bancwise Real Estate Solutions	54	12.2
									RE/MAX Real Estate Group	33	7.8	Lincoln First Realty	45	10.2
									Prudential Ambassador	27	6.4	Prudential Ambassador	45	10.2
									4-FIRM TOTAL	233	55.3	4-FIRM TOTAL	231	52.3
Goldsboro,NC	780	1,074	412	428	43	37	9.6	11.6	Century 21 Dees & Tyndall REALTORS	61	14.9	PRUDENTIAL THE MCMILLEN GROUP Century 21 Dees & Tyndall	100	23.6
Pop: 113,329									PRUDENTIAL THE MCMILLEN GROUP	58	14.2	REALTORS	62	14.6
, op. 113,323									REALTY WORLD/CAROLINA LIVING	38	9.3	REALTORS REALTY WORLD/CAROLINA LIVING	46	14.6
									Coldwell Banker Crawford-Norwood	50	5.5		-10	10.5
l									Realty	32	7.8	Houser Associates Real Estate	36	8.5
									4-FIRM TOTAL	189	46.1	4-FIRM TOTAL	244	57.5

Findlay,OH	1,724	1,815	402	490	27	29	14.9	16.9	RE/MAX REALTY/FINDLAY	135	33.8	RE/MAX REALTY/FINDLAY	160	32.7
Pop: 71,295	1,724	1,015	402	450	27	25	14.5	10.5	PRUDENTIAL CHASLO REALTY	61	15.3	PRUDENTIAL CHASLO REALTY	87	17.8
									Rooney and Associates Real Estate ERA NOAKES-ROONEY AND	45	11.3	Rooney and Associates Real Estate	73	14.9
									ASSOCIATES	40	10.0	COLDWELL BANKER GEYER	59	12.0
									4-FIRM TOTAL	281	70.4	4-FIRM TOTAL	379	77.4
SanAngelo,TX	1,028	774	400	519	39	44	10.3	11.8	COLDWELL BANKER Patterson Prop	92	23.0	Addresses Real Estate	77	14.8
Pop: 105,781	1,020		400	515	35		10.5	11.0	ERA NEWLIN & VINCENT REALTY	52	13.0	COLDWELL BANKER Patterson Prop	68	13.1
. op: 100)/01									DIERSCHKE & DIERSCHKE	48	12.0	DIERSCHKE & DIERSCHKE	54	10.4
									ALLISON-LACY REAL ESTATE	28	7.0	SCOTT ALLISON REAL ESTATE	48	9.3
									4-FIRM TOTAL	220	55.0	4-FIRM TOTAL	247	47.6
Marion, IN	1.204	1,023	383	302	28	25	13.7	12.1	Goff Real Estate	75	19.6	FC TUCKER REALTY CENTER	56	18.5
Pop: 73,403	, -	,			-		_		FC TUCKER REALTY CENTER	65	17.0	RE/MAX REGENCY, REALTORS	50	16.6
									RE/MAX REGENCY, REALTORS	58	15.1	CENTURY 21 Kilgore, Realtors	37	12.3
									CENTURY 21 Kilgore, Realtors	36	9.4	Goff Real Estate	29	9.6
									4-FIRM TOTAL	234	61.1	4-FIRM TOTAL	172	57.0
									ERA Dawson Bradford Co., Realtors,			ERA Dawson Bradford Co., Realtors,		
Bangor, MN	1,600	1,562	378	322	24	24	15.8	13.4	Bang	119	31.4	Bang	103	32.0
Pop: 144,919	,								Realty of Maine - Bangor	71	18.7	TOWN & COUNTRY, REALTORS	46	14.3
. ,									TOWN & COUNTRY, REALTORS	44	11.6	Realty of Maine - Bangor	45	14.0
									Assist 2 Sell 1st Choice Realty	25	6.6	RE/MAX Advantage Realty Group	22	6.8
									4-FIRM TOTAL	259	68.3	4-FIRM TOTAL	216	67.1
Salina,KS	2,106	2,198	330	349	14	14	23.6	24.9	SALINAHOMES.COM, INC.	96	29.2	SALINAHOMES.COM, INC.	116	33.3
Pop: 59,760									MILLWOOD REALTY	82	24.9	MILLWOOD REALTY	83	23.9
. ,									TEAM 1 REAL ESTATE	59	17.9	COLDWELL BANKER, A-P-W	68	19.5
									COLDWELL BANKER, A-P-W	56	17.0	TEAM 1 REAL ESTATE	35	10.1
									4-FIRM TOTAL	293	89.1	4-FIRM TOTAL	302	86.8
Brookfield,WI	1,067	1207	318	383	57	71	5.6	5.4	Shorewest Realtors, Inc.	75	23.5	Shorewest Realtors, Inc.	96	25.1
Pop: 38,649									First Weber Group	55	17.2	First Weber Group	77	20.2
									RE/MAX Realty 100	23	7.2	RE/MAX Realty 100	34	8.9
									Coldwell Banker Residential Brokerage	22	6.9	The Thomson Group	25	6.5
									4-FIRM TOTAL	175	54.9	4-FIRM TOTAL	232	60.7
Longview,WA	2,091	1,661	313	427	32	35	9.8	12.2	Coldwell Banker Flaskerud	116	37.1	Windermere Allen & Associates	139	32.6
Pop: 92,942									Windermere Allen & Associates	72	23.0	Coldwell Banker Flaskerud	80	18.7
									John L. Scott - Longview	29	9.3	Prudential NW Properties	41	9.6
									Prudential NW Properties	23	7.4	John L. Scott - Longview	35	8.2
									4-FIRM TOTAL	240	76.7	4-FIRM TOTAL	295	69.1
Grandview,MO	1,298	1,141	307	165	66	44	4.7	3.8	Reece & Nichols	105	34.2	Reece & Nichols	49	29.7
Pop: 24,881									Coldwell Banker All American Realty	13	4.2	GLAD HEART REALTY	19	11.5
									Realty Executives Metro One	12	3.9	Keller Williams Southland	8	4.9
									Vintage Realty	12	3.9	Meyers Grandview R. E. Co.	7	4.2
									4-FIRM TOTAL	142	46.3	4-FIRM TOTAL	83	50.3
Corvalis,OR	920	1,074	289	394	36	39	8.0	10.1	Town & Country Realty	55	19.0	Town & Country Realty	81	20.6
Pop: 78,153									Re/Max Integrity	35	12.1	Coldwell Banker Valley Brokers	65	16.5
									KELLER WILLIAMS REALTY	32	11.0	KELLER WILLIAMS REALTY	45	11.4
									Coldwell Banker Valley Brokers	29	10.0	RE/MAX Integrity	41	10.4
									4-FIRM TOTAL	151	52.1	4-FIRM TOTAL	232	58.9
Roswell,NM	2,030	1,616	279	388	17	23	16.4	16.9	CENTURY 21 Home Planning	80	30.9	CENTURY 21 Home Planning	113	29.1
Pop: 61,382									RE/MAX OF ROSWELL	69	26.6	Prudential Grieves Group Realtors	80	20.6
									Prudential Grieves Group Realtors	43	16.6	RE/MAX OF ROSWELL	48	12.4
									COLDWELL BANKER T&T	17	6.6	WISE CHOICE REAL ESTATE	34	8.8
									4-FIRM TOTAL	209	80.7	4-FIRM TOTAL	275	70.9
PineBluff,AR	1,282	1,144	248	185	26	27	9.5	6.9	First Realty Group, Inc.	59	23.8	Hometown Realty Services	34	18.4
Pop: 107,341									Hometown Realty Services	38	15.3	First Realty Group, Inc.	30	16.2
									Lunsford & Associates	37	14.9	Wilson-Rodgers & Associates	29	15.7
									Wilson-Rodgers & Associates	29	11.7	Exit Realty Deaton Group	24	13.0
									4-FIRM TOTAL	163	65.7	4-FIRM TOTAL	117	63.3
LaPine,OR	558	1,271	222	213	41	36	5.4	5.9	RE/MAX Sunset Realty	28	12.6	RE/MAX Sunset Realty	65	30.5

Pop: 5,799	I	I I		1	I	l	1	I	Coldwell Banker First Resort	20	9.0	John L Scott Lapine	23	10.8
1 001 0)/ 00									Dennis Haniford's Cascade Rity	19	8.6	Prudential NW Properties	17	8.0
									Gilchrist Real Estate - Lapine	15	6.8	Dennis Haniford's Cascade Rlty	15	7.0
									4-FIRM TOTAL	82	36.9	4-FIRM TOTAL	120	56.3
Blythville,AR	2,114	1,972	221	211	14	12	15.8	17.6	Century 21 McWaters Realty	89	40.1	Century 21 McWaters Realty	75	35.6
Pop: 18,272									Goff Real Estate	28	12.6	Goff Real Estate	35	16.6
									RE/MAX Great River Realty	27	12.2	RE/MAX Great River Realty	30	14.2
									Crye-Leike Missco Realty	22	9.9	Crye-Leike 1st Choice Realty	25	11.9
									4-FIRM TOTAL	166	74.8	4-FIRM TOTAL	165	78.2
DelRio,TX	1,049	1,242	211	210	18	17	11.7	12.4	CADENA REALTY	42	19.9	REMAX DEL RIO	38	18.2
Pop: 44,856	,	,		-	_				DEL RIO REALTY	26	12.3	Amistad Realty & Associat	36	17.2
									REMAX DEL RIO	23	10.9	Amistad Lake/Ranchero Pro	31	14.8
									Century 21 Brenda Hunter	22	10.4	Texas Heritage Real Estat	27	12.9
									4-FIRM TOTAL	113	53.6	4-FIRM TOTAL	132	63.2
Lewiston,ID	1.314	2.072	209	243	18	16	11.6	15.2	CENTURY 21 Beutler & Asso	52	24.9	Coldwell Banker Tomlinson	96	39.5
Pop: 57,961	1,514	2,072	205	245	10	10	11.0	15.2	Coldwell Banker Tomlinson	34	16.3	CENTURY 21 Beutler & Asso	43	17.7
100.57,501									RE/MAX EXECUTIVES	29	13.9	WINDERMERE REAL ESTATE	20	8.2
									COLDWELL BANKER TOWN &	25	15.5		20	0.2
									COUNTRY	16	7.7	Assist2Sell Discovery Rea	13	5.4
									4-FIRM TOTAL	131	62.7	4-FIRM TOTAL	172	70.8
Eureka,CA	854	1,026	193	213	37	33	5.2	6.5	Ming Tree Gmac Real Estate	33	17.1	Coldwell Banker Cutten Realty	47	22.1
Pop: 126,518	854	1,020	193	215	37	55	5.2	0.5	Coldwell Banker Cutten Realty	33 32	16.6	Ming Tree Gmac Real Estate	47 27	12.1
Pop. 120,516									Benchmark Realty Group	17	8.8	Benchmark Realty Group	27	9.9
									Community Realty	17	8.8 7.8	, ,	21	9.9 9.4
									4-FIRM TOTAL	15 97	7.8 50.3	Community Realty 4-FIRM TOTAL	20 115	9.4 54.0
	607	000	100	222	16		10	5.2	-	-			-	
Portsmouth,NH	607	893	186	232	46	44	4.0	5.3	RE/MAX Coast To Coast Properties	28	15.1	RE/MAX Coast To Coast Properties	43	18.5
Pop: 20,784									Coldwell Banker Residential Brokerage	19	10.2	Olde Port Properties Coldwell Banker Residential	32	13.8
									The Masiello Group	18	9.7	Brokerage	30	12.9
									Keller Williams Coastal Realty	10	5.4	Betty LaBranch Real Estate, Inc.	19	8.2
									4-FIRM TOTAL	75	40.3	4-FIRM TOTAL	124	53.4
Minot,ND	1,605	1,682	177	217	12	9	14.8	24.1	CENTURY 21 ACTION REALTORS	47	26.6	SIGNAL REALTORS, INC.	47	21.7
Pop: 67,932	,	,				_			SIGNAL REALTORS, INC.	30	17.0	CENTURY 21 ACTION REALTORS	45	20.7
									COLDWELL BANKER 1ST MINOT	25	14.1	COLDWELL BANKER 1ST MINOT	40	18.4
									Prudential Preferred Properties, Inc.	24	13.6	BROKERS 12 INC.	32	14.8
									4-FIRM TOTAL	126	71.2	4-FIRM TOTAL	164	75.6
Butte,MT	1,120	1,256	165	235	22	25	7.5	9.4	HOMESTEAD REAL ESTATE	32	19.3	HOMESTEAD REAL ESTATE	49	20.9
Pop: 34,606	1,120	1,200	100	200		20	715	511	MARKOVICH REAL ESTATE	27	16.3	MCLEOD REALTORS	40	17.0
1 0p. 34,000									MCLEOD REALTORS	22	13.3	MARKOVICH REAL ESTATE	39	16.6
									HARRISON AVE REALTY INC	19	11.5	HARRISON AVE REALTY INC	27	11.5
									4-FIRM TOTAL	100	60.3	4-FIRM TOTAL	155	66.0
Delano,CA	474	804	149	50	45	25	3.3	2.0	Century 21 Central Valley Real	14	9.5	Liberty One Real Estate	8	15.7
Pop: 38,824	474	604	149	50	45	25	5.5	2.0	Liberty One Real Estate	14	9.5	Watson Touchstone ERA	8	15.7
PUp. 30,024									San Joaquin Realty	14	9.5 6.8	San Joaquin Realty	° 6	11.8
									Stroope, REALTORS-GMAC	9	6.1	Oasis Real Estate	3	5.9
										9 47				
Caulaba d NINA	2.244	2.466	125	454	10	C C	12.5	25.2	4-FIRM TOTAL		31.8	4-FIRM TOTAL	25 59	49.0
Carlsbad,NM	2,244	3,166	125	151	10	6	12.5	25.2	C-21 ASSOC PROF	39 21	31.0	C-21 ASSOC PROF		39.3
Pop: 25,625									ERA-MONTGOMERY REAL ESTAT	31	24.6	ERA-MONTGOMERY REAL ESTAT	45	30.0
									DUNAGAN ASSOCIATES	29	23.0	DUNAGAN ASSOCIATES	40	26.7
									MEANS REAL ESTATE LLC	14	11.1	MEANS REAL ESTATE LLC	4	2.7
			46-						4-FIRM TOTAL	113	89.7	4-FIRM TOTAL	148	98.7
Montpelier,VT	1,286	1,673	103	123	23	16	4.5	7.7	CENTURY 21 Jack Associates	25	24.5	Heney Realtors	34	27.6
Pop: 8,035									Heney Realtors	20	19.6	CENTURY 21 Jack Associates	30	24.4
									BCK Real Estate	12	11.8	Fecteau Real Estate	13	10.6
									Berg, Carmolli & Kent Real Estate	7	6.9	BCK Real Estate	10	8.1
	I			1	1	1	1	1	4-FIRM TOTAL	64	62.7	4-FIRM TOTAL	87	70.7

louses Sold	Listing Firms	Sales per Firm	HHI Listing Agent	Top 10 Listing Firms (by number of sales)	Firm's Sales	Firm's Market Share	Prior Year Rank	HHI (dollar value Listing Agent)	HHI Sales Agent	HHI (dollar value, Sales Agent)
				2	2000					
10,315	350	29.5	735	SEMONIN REALTORS	2,096	20.3	n/a	857	725	877
				CENTURY 21 REALTY GROUP-HAGAN	1,031	10.0				
				RE/MAX PROPERTIES EAST	1,029	10.0				
				COLDWELL BANKER/MCMAHAN CO.	688	6.7				
				RE/MAX ASSOCIATES	491	4.8				
				PRUDENTIAL PARKS & WEISBERG	375	3.6				
				RE/MAX PROFESSIONALS	276	2.7				
				RE/MAX ALLIANCE	271	2.6				
				COLDWELL BANKER ACTION, RLTRS	248	2.4				
				ERA-KEPPLE-KEENE, REALTORS	240	2.3				
					2001					
11,013	337	32.7	732	SEMONIN REALTORS	2,195	19.9	1	843	709	827
				RE/MAX PROPERTIES EAST	1,169	10.6	3			
				CENTURY 21 REALTY GROUP-HAGAN	1,054	9.6	2			
				COLDWELL BANKER/MCMAHAN CO.	788	7.2	4			
				RE/MAX ASSOCIATES	524	4.8	5			
				PRUDENTIAL PARKS & WEISBERG	345	3.1	6			
				RE/MAX ALLIANCE	334	3.0	8			
				ERA-KEPPLE-KEENE, REALTORS	294	2.7	10			
				RE/MAX PROFESSIONALS	285	2.6	7			
				COLDWELL BANKER ACTION, RLTRS	268	2.4	9			
				2	2002					
11,116	368	30.2	678	SEMONIN REALTORS	2,135	19.2	1	775	681	770
				RE/MAX PROPERTIES EAST	1,235	11.1	2			
				CENTURY 21 REALTY GROUP-HAGAN	910	8.2	3			
				COLDWELL BANKER/MCMAHAN CO.	764	6.9	4			
				RE/MAX ASSOCIATES	452	4.1	5			
				PRUDENTIAL PARKS & WEISBERG	337	3.0	6			
				ERA-KEPPLE-KEENE, REALTORS	289	2.6	8			
				RE/MAX PROFESSIONALS	280	2.5	9			
				COLDWELL BANKER ACTION, RLTRS	276	2.5	10			
				RE/MAX ALLIANCE	267	2.4	7			
					2003					
12,800	393	32.6	634	SEMONIN REALTORS	2,559	20.0	1	710	656	761
				RE/MAX PROPERTIES EAST	1,245	9.7	2			
				CENTURY 21 REALTY GROUP-HAGAN	793	6.2	3			
				COLDWELL BANKER/MCMAHAN CO.	715	5.6	4			
				RE/MAX ASSOCIATES	506	4.0	5			
				PRUDENTIAL PARKS & WEISBERG	423	3.3	6			
				ERA-KEPPLE-KEENE, REALTORS	328	2.6	7			
				RE/MAX ALLIANCE	316	2.5	10			
				RE/MAX PROFESSIONALS	289	2.3	8			
				RE/MAX 100, INC.	209	1.6	14			
					2004					
13,950	432	32.3	595	SEMONIN REALTORS	2,762	19.8	1	639	595	696
				RE/MAX PROPERTIES EAST	1,328	9.5	2			
				COLDWELL BANKER/MCMAHAN CO.	713	5.1	4			
				CENTURY 21 REALTY GROUP-HAGAN	685	4.9	3			
				RE/MAX ASSOCIATES	449	3.2	5			

					202	2.0	c			
				PRUDENTIAL PARKS & WEISBERG	393	2.8	6			
				RE/MAX ALLIANCE	387	2.8	8			
				RE/MAX PROFESSIONALS	307	2.2	9			
				ERA-KEPPLE-KEENE, REALTORS	277	2.0	7			
				COLDWELL BANKER ACTION, RLTRS	233	1.7	13			
				200						
13,061	478	27.3	451	SEMONIN REALTORS	2,211	16.9	1	508	541	597
				RE/MAX PROPERTIES EAST	941	7.2	2			
				CENTURY 21 REALTY GROUP-HAGAN	654	5.0	4			
				COLDWELL BANKER/MCMAHAN CO.	620	4.8	3			
				RE/MAX ASSOCIATES	510	3.9	5			
				RE/MAX ALLIANCE	283	2.2	7			
				ERA-KEPPLE-KEENE, REALTORS	275	2.1	9			
				PRUDENTIAL PARKS & WEISBERG	274	2.1	6			
				KENTUCKY SELECT PROPERTIES	270	2.1	32			
				GRACIOUS LIVING REALTY	243	1.9	287			
				200	6					
15,076	511	29.5	410	SEMONIN REALTORS	2,408	16.0	1	474	483	559
				RE/MAX PROPERTIES EAST	938	6.2	2			
				RE/MAX ASSOCIATES	731	4.9	5			
				COLDWELL BANKER/MCMAHAN CO.	690	4.6	4			
				CENTURY 21 REALTY GROUP-HAGAN	662	4.4	3			
				GRACIOUS LIVING REALTY	349	2.3	10			
				PRUDENTIAL PARKS & WEISBERG	305	2.0	8			
				RE/MAX ALLIANCE	294	2.0	6			
				RE/MAX_EXECUTIVE GROUP, INC.	288	1.9	22			
				KENTUCKY SELECT PROPERTIES	249	1.7	9			
				200	7					
14,726	485	30.4	373	SEMONIN REALTORS	2,189	14.9	1	433	424	477
				RE/MAX PROPERTIES EAST	919	6.2	2			
				CENTURY 21 REALTY GROUP-HAGAN	674	4.6	5			
				RE/MAX ASSOCIATES	673	4.6	3			
				COLDWELL BANKER/MCMAHAN CO.	600	4.1	4			
				RE/MAX_EXECUTIVE GROUP, INC.	375	2.6	9			
				GRACIOUS LIVING REALTY	332	2.3	6			
				PRUDENTIAL PARKS & WEISBERG	278	1.9	7			
				MILESTONE REALTY CONSULTANTS	272	1.9	13			
				KENTUCKY SELECT PROPERTIES	263	1.8	10			
				200						
10,960	442	24.8	348	SEMONIN REALTORS	1,547	14.1	1	411	388	464
				RE/MAX_PROPERTIES EAST	634	5.8	2			
				CENTURY 21 REALTY GROUP-HAGAN	480	4.4	3			
				RE/MAX ASSOCIATES	477	4.4	4			
				COLDWELL BANKER/MCMAHAN CO.	406	3.7	5			
				BENNETT-WEBB REALTY	274	2.5	86			
				RE/MAX_EXECUTIVE GROUP, INC.	274	2.5	6			
					275	2.3	12			
				RE/MAX 100, INC.			12			
				ERA-KEPPLE-KEENE, REALTORS	221	2.0				
				REAL ESTATE 3000	202	1.8	18			

Table 3: HHI and Market Shares by Areas within Louisville, KY

	Sales	Sales	нні	нні	4 Largest Firms	Firm's	Firm's Market	4 Largest Firms	Firm's	Firm's Market
	2000	2006	2000	2006	2000	Sales	Share	2006	Sales	Share
Area0	87	153	1,362	639	SEMONIN REALTORS	26	29.9	RE/MAX 100, INC.	21	13.7
					RE/MAX CONNECTIONS	12 9	13.8 10.3	SEMONIN REALTORS	21 15	13.7 9.8
					CENTURY 21 REALTY GROUP-HAGAN RE/MAX PROPERTIES EAST	9	8.1	RE/MAX CONNECTIONS RE/MAX PROPERTIES EAST	15	9.8 8.5
Area1	794	1,160	605	434	SEMONIN REALTORS	122	15.4	SEMONIN REALTORS	15	13.6
Alear	794	1,160	605	454	CENTURY 21 REALTY GROUP-HAGAN	79	10.0	CENTURY 21 REALTY GROUP-HAGAN	87	7.5
					RE/MAX_PROPERTIES EAST	71	8.9	RE/MAX PROPERTIES EAST	73	6.3
					COLDWELL BANKER/MCMAHAN CO.	54	6.8	GRACIOUS LIVING REALTY	65	5.6
Area2	773	1,052	1,079	583	SEMONIN REALTORS	209	27.0	SEMONIN REALTORS	198	18.8
/ II COL	115	1,052	1,075	505	RE/MAX_PROPERTIES EAST	88	11.4	RE/MAX_PROPERTIES EAST	94	8.9
					CENTURY 21 REALTY GROUP-HAGAN	86	11.1	CENTURY 21 REALTY GROUP-HAGAN	62	5.9
					PRUDENTIAL PARKS & WEISBERG	29	3.8	KENTUCKY SELECT PROPERTIES	60	5.7
Area3	662	796	1,556	601	SEMONIN REALTORS	235	35.5	SEMONIN REALTORS	139	17.5
					CENTURY 21 REALTY GROUP-HAGAN	72	10.9	KENTUCKY SELECT PROPERTIES	73	9.2
					RE/MAX PROPERTIES EAST	56	8.5	RE/MAX PROPERTIES EAST	63	7.9
					WAKEFIELD, REUTLINGER COMPANY	45	6.8	BLUEGRASS R. E. PROFESSIONALS	49	6.2
Area4	582	824	693	410	SEMONIN REALTORS	103	17.7	SEMONIN REALTORS	103	12.5
					CENTURY 21 REALTY GROUP-HAGAN	63	10.8	COLDWELL BANKER/MCMAHAN CO.	55	6.7
					COLDWELL BANKER/MCMAHAN CO.	54	9.3	GRACIOUS LIVING REALTY	51	6.2
					RE/MAX PROPERTIES EAST	34	5.8	RE/MAX ALLIANCE	48	5.8
Area5	780	987	905	563	SEMONIN REALTORS	162	20.8	SEMONIN REALTORS	168	17.0
					CENTURY 21 REALTY GROUP-HAGAN	113	14.5	CENTURY 21 REALTY GROUP-HAGAN	82	8.3
					COLDWELL BANKER/MCMAHAN CO.	71	9.1	S. G. PRIEST COMPANY, REALTORS	63	6.4
					S. G. PRIEST COMPANY, REALTORS	61	7.8	COLDWELL BANKER/MCMAHAN CO.	48	4.9
Area6	1,162	1760	635	482	SEMONIN REALTORS	200	17.2	SEMONIN REALTORS	288	16.4
	_,_0_	2.00		.01	CENTURY 21 REALTY GROUP-HAGAN	118	10.2	RE/MAX PROPERTIES EAST	119	6.8
					RE/MAX_PROPERTIES EAST	103	8.9	MILESTONE REALTY CONSULTANTS	109	6.2
					PRUDENTIAL PARKS & WEISBERG	75	6.5	RE/MAX ASSOCIATES	93	5.3
Area7	1,196	1,636	927	544	SEMONIN REALTORS	233	19.5	SEMONIN REALTORS	291	17.8
/	1,150	1,050	527	544	RE/MAX_PROPERTIES EAST	184	15.4	RE/MAX_PROPERTIES EAST	150	9.2
					CENTURY 21 REALTY GROUP-HAGAN	143	12.0	RE/MAX ASSOCIATES	125	7.6
					RE/MAX ASSOCIATES	113	9.5	CENTURY 21 REALTY GROUP-HAGAN	69	4.2
Area8	878	1,233	1,090	862	SEMONIN REALTORS	183	20.8	SEMONIN REALTORS	279	22.6
Alcuo	0/0	1,233	1,050	002	RE/MAX_PROPERTIES EAST	164	18.7	RE/MAX ASSOCIATES	137	11.1
					RE/MAX ASSOCIATES	92	10.5	RE/MAX PROPERTIES EAST	137	11.1
					CENTURY 21 REALTY GROUP-HAGAN	87	9.9	PRUDENTIAL PARKS & WEISBERG	68	5.5
Area9	1,186	1,300	1,156	644	SEMONIN REALTORS	306	25.8	SEMONIN REALTORS	271	20.9
Aleas	1,180	1,500	1,150	044	RE/MAX_PROPERTIES EAST	171	14.4	RE/MAX_PROPERTIES EAST	102	7.9
					CENTURY 21 REALTY GROUP-HAGAN	117	9.9	RE/MAX_ASSOCIATES	63	4.9
					PRUDENTIAL PARKS & WEISBERG	83	9.9 7.0	COLDWELL BANKER/MCMAHAN CO.	62	4.9
Area10	166	413	4,720	1,667	COLDWELL BANKER/MCMAHAN CO.	111	66.9	COLDWELL BANKER/MCMAHAN CO.	146	35.4
Aleaio	100	415	4,720	1,007	CENTURY 21 REALTY GROUP-HAGAN	24	14.5	BETTY SEAY REALTY	59	14.3
					QUIGGINS REALTY	6	3.6	CENTURY 21 REALTY GROUP-HAGAN	43	10.4
					RE/MAX_PROPERTIES EAST	5	3.0	RE/MAX ALLIANCE	24	5.8
Area11	613	985	627	448	COLDWELL BANKER ACTION, RLTRS	79	12.9	CENTURY 21 ADVANTAGE PLUS	102	10.4
AICUII	015	585	027	440	CENTURY 21 ADVANTAGE PLUS	67	10.9	THE REALTY MARKETPLACE	88	8.9
					THE REALTY MARKETPLACE	55	9.0	DOGWOOD HOMES REALTY GROUP	77	7.8
					SEMONIN REALTORS	50	8.2	SEMONIN REALTORS	74	7.5
Area12	37	158	1,731	770	SEMONIN REALTORS	11	29.7	FIRST TIME, INC.	22	13.9
AICUIL	57	150	1,751	//0	ATCHER-GOFF REAL ESTATE	8	21.6	SEMONIN REALTORS	21	13.3
					REALTY WORLD-RIVER VALLEY PROP	6	16.2	GRACIOUS LIVING REALTY	20	12.7
					CENTURY 21 REALTY GROUP-HAGAN	2	5.4	DUVALL REALTY, LLC	15	9.5
Area19	124	304	895	603	COLDWELL BANKER/MCMAHAN CO.	25	20.2	SEMONIN REALTORS	51	16.8
	124	304	655	005	ELK CREEK REALTY	15	12.1	ROBERT YATES REAL ESTATE	33	10.8
					SEMONIN REALTORS	13	10.5	GOEBEL-HENRY REAL ESTATE	23	7.6
					ROBERT YATES REAL ESTATE	13	9.7	ELK CREEK REALTY	17	5.6
Area20	352	489	1,002	966	SEMONIN REALTORS	81	23.0	SEMONIN REALTORS	128	26.2
	552	-05	1,002	500	COLDWELL BANKER/MCMAHAN CO.	46	13.1	COLDWELL BANKER/MCMAHAN CO.	54	11.0
					PRUDENTIAL PARKS & WEISBERG	38	10.8	RE/MAX_PROPERTIES EAST	41	8.4
					RE/MAX_PROPERTIES EAST	33	9.4	RE/MAX_REAL ESTATE CENTER	19	3.9
Area21	370	415	1,330	849	SEMONIN REALTORS	96	26.0	SEMONIN REALTORS	97	23.4
	370	413	1,330	043	RE/MAX_REAL ESTATE CENTER	96 72	28.0 19.5	RE/MAX_PROPERTIES EAST	97 44	23.4 10.6
					COLDWELL BANKER/MCMAHAN CO.	33	8.9	COLDWELL BANKER/MCMAHAN CO.	44 34	8.2
					CENTURY 21 REALTY GROUP-HAGAN	33	8.9	RE/MAX_REAL ESTATE CENTER	26	6.3
Area29	82	155	794	1 264		13	15.9	RE/MAX_REALESTATE CENTER RE/MAX_PREFERRED REALTY	47	30.3
n Ca23	02	100	794	1,364	K M BRUTHER REAL ESTATE GROUP SEMONIN REALTORS	13	15.9	SEMONIN REALTORS	47 18	30.3 11.6
					TRI-COUNTY REALTORS	7	8.5			11.6
								TORREY SMITH REALTY CO., LLC	16 15	
Area 20	222	5/2	4	4 4 6 6	BOHANNON REALTY	6	7.3	ROBERTS REALTY	15	9.7
Area30	339	567	1,337	1,182	COLDWELL BANKER LARRY ROGERS	96	28.3	COLDWELL BANKER LARRY ROGERS	131	23.1
					RE/MAX PERFORMANCE REALTY	45	13.3	RE/MAX PERFORMANCE REALTY	120	21.2
					TORREY SMITH REALTY CO., LLC	39	11.5	SEMONIN REALTORS	48	8.5
	-				SEMONIN REALTORS	38	11.2	TORREY SMITH REALTY CO., LLC	45	7.9
Area31	16	117	2,813	1,181	SEMONIN REALTORS	6	37.5	STONEGATE REALTY, LLC	28	23.9
					RE/MAX ADVANTAGE +	5	31.3	RE/MAX EXECUTIVE GROUP, INC.	17	14.5
					DOE RUN REALTY & APPRAISAL SER	3	18.8	DOE RUN REALTY & APPRAISAL SER	11	9.4
					CENTURY 21 REALTY GROUP-HAGAN	1	6.3	SEMONIN REALTORS	11	9.4

I able 4: Warket Activity of Small Firms over Time in Louisville, Ky Firms w/ swetch 1 Sele in 2000 Heales in 2002 Heales in 2003 Heales in 2003											
Firms w/ exactly 1 Sale in 2000	#sales in 2001	#sales in 2002	#sales in 2003	#sales in 2004	#sales in 2005	#sales in 2006	#sales in 2007	#sales in 2008	Avg#YearlySales		
ACCORD R.E. & MORTGAGE BROKERS	0	0	0	0	0	1	3	0	0.5		
ALAN ADELBERG & ASSOCIATES	1	0	0	0	0	0	1	1	0.38		
ALL COUNTY REALTY	2	0	0	0	3	4	7	7	2.88		
ANN CASLIN, REALTOR	2	1	0	0	0	0	0	0	0.38		
ANN CLARK REAL ESTATERESOURCES	2	2	2	2	0	0	0	0	1.00		
ASSIST 2 SELL CAROUSEL REALTY	0	0	0	0	0	0	0	0	0.00		
BOWLES REALTY	0	0	0	1	0	1	1	0	0.38		
BRUMLEY REALTY & MANAGEMENT CO	0	0	1	0	0	3	0	0	0.50		
BURKE REALTY COMPANY	1	0	0	0	0	2	1	0	0.50		
C/B ROGERS REALTY-SIMPSONVILLE	0	11	40	44	27	20	30	0	21.50		
CGR HOME BUILDERS, INC.	1	1	0	0	0	0	0	0	0.25		
CHARLES A. BROWN, SR., REALTOR	0	0	0	0	0	0	0	0	0.00		
CLASSICKLE REALESTATE SERVICES	0	0	0	1	0	0	0	0	0.13		
CONWAY & ASSOCIATES, REALTORS	3	8	12	0	0	0	0	0	2.88		
CUNNINGHAM REALTY COMPANY	1	0	0	1	4	0	0	0	0.75		
DEAN'S REALTY SERVICE	0	0	0	0	0	1	0	0	0.13		
DUANE REALTY & DEVELOPMENT	0	0	0	0	0	0	0	0	0.00		
DUB POTTER REALTORS	1	1	2	0	5	6	5	1	2.63		
DURST & MOERT, REALTORS	2	0	0	0	0	0	0	0	0.25		
EDWARD FRANK CO., INC.	2	2	0	2	1	3	0	3	1.63		
EDWIN MONTGOMERY R.E. BROKER	0	0	0	0	0	0	0	0	0.00		
ENGLISH & ASSOCIATES	0	2	1	0	1	1	0	0	0.63		
FULLER & ASSOCIATES COMM. R.E.	0	0	2	0	0	0	0	0	0.25		
G. STARKS REALTY CO.	1	0	0	1	6	10	3	4	3.13		
GALLAVIN & ASSOCIATES	0	0	3	1	3	1	17	6	3.88		
GLEN E. STUCKEL	0	0	2	1	0	0	0	0	0.38		
GOODKNIGHT PROPERTIES LTD.	0	0	0	0	0	0	0	0	0.00		
GRAHAM REALTY	0	0	0	0	0	0	0	0	0.00		
HAMILTON REALTORS	0	0	0	1	0	0	0	0	0.13		
HAMILTON REALTY	0	0	0	0	0	0	0	0	0.00		
HEARTLAND REALTY	0	0	0	1	0	0	1	1	0.38		
HOMECO REAL ESTATE	0	0	1	2	0	0	0	0	0.38		
HOMETOWN REAL ESTATE COMPANY	0	1	2	2	1	3	2	1	1.50		
IMPRESSIVE PROPERTIES	0	0	0	0	0	0	11	5	2.00		
IROQUOIS REALTY	0	0	0	0	0	0	0	0	0.00		
J. A. SCHERER, REALTORS	1	0	0	0	0	0	0	0	0.13		
J. D. COOPER, REALTY	4	3	3	4	1	3	0	0	2.25		
J. MICHAEL JONES & ASSOCIATES	0	0	0	1	0	1	5	6	1.63		
JACK GRIFFIN COMPANY REALTORS	4	2	0	0	0	0	0	0	0.75		
JACK GRUNEISEN COMPANY	2	4	1	5	1	0	0	0	1.63		
JACOBSON REALTY	13	11	14	9	4	4	0	0	6.88		
JAY PAXTON, REALTOR	3	1	7	3	4	2	2	1	2.88		
JEWELL REALTORS	0	2	3	3	7	4	4	0	2.88		
JIM HALL & ASSOCIATES	1	0	5	5	8	2	0	0	2.63		
JOE DAUGHERTY REAL ESTATE	2	1	4	0	0	0	0	0	0.88		
JOHN T. MAY & ASSOCIATES	0	2	0	3	2	0	2	4	1.63		

Table 4: Market Activity of Small Firms over Time in Louisville, KY

	4	2	0	0	0	0	-	0	1.00
	1 0	2 0	0 0	0 0	0 0	0 0	5 0	0	1.00
KEN KOLB REALTY	0							0	0.00
KENTUCKY REALTY CORPORATION	e e	0	1	1	0	1	0	0	0.38
KIRBY REALTY COMPANY	0	1	0	0	0	0	0	0	0.13
LEGEND REALTY	0	0	0	0	1	0	0	0	0.13
LINDENFELD REALTY	0	0	1	0	0	0	0	0	0.13
MARVIN DEVER, INC.	0	0	1	1		0	0	0	0.25
MCCLELLAN REALTY CO	0	1	1	2	3	3	1	0	1.38
MLS REAL ESTATE	2	0	1	13	4	5	1	1	3.38
MURRY H. SMITH, REALTORS	3	2	1	1	0	0	0	0	0.88
NEW TOWNE REALTY, LLC	0	0	1	0	2	0	5	3	1.38
PAR REALTY	1	0	0	0	0	0	0	0	0.13
PENCE COMPANY REALTORS	0	2	1	2	6	3	1	2	2.13
PERSIMMON TREE REALTY	0	0	0	0	2	2	4	0	1.00
PREFERRED HOMES, INC.	4	5	2	0	3	7	0	4	3.13
PREFERRED PROPERTIES	0	0	1	0	0	0	0	0	0.13
REAL ESTATE 2000/COCHRAN	1	1	2	2	4	9	9	1	3.63
REBOB REALTY, INC.	4	7	13	3	1	2	1	0	3.88
RIVER CITY INVESTMENT COMPANY	0	0	0	0	0	0	0	0	0.00
ROBERT D. SHELL, REALTOR	0	0	1	0	1	0	0	0	0.25
ROD SMITH REAL ESTATE BROKER	1	0	0	0	0	0	0	0	0.13
ROGERS REALTY COMMERCIAL GROUP	0	0	0	0	0	0	0	0	0.00
ROSENSTEIN & TASMAN	1	4	2	2	5	2	5	0	2.63
RUSH WALKER, REALTOR	5	1	1	0	0	0	0	0	0.88
SAUL ANHOUSE, REALTOR	0	0	0	0	0	0	0	0	0.00
SCHEMPP REALTY COMPANY	0	0	1	0	2	1	2	1	0.88
SHUCK COMPANY REALTORS	6	11	5	0	0	0	9	- 7	4.75
SIMON REALTY COMPANY	0	3	0	0	0	0	0	0	0.38
SMALLWOOD REALTY CO., INC.	2	4	3	2	2	2	2	0	2.13
SOUTHEAST REALTORS INC	0	0	17	46	75	53	41	39	33.88
STAN HUMPHREY CONSTRUCTION CO.	3	2	0	3	0	1	2	0	1.38
STAR REALTY, INC.	2	0	1	0	0	0	2	1	0.75
STEVE PORTER REALTORS	3	3	2	1	2	3	0	0	1.75
STINSON REALTY COMPANY	0	0	0	0	0	0	0	0	0.00
TASHREALTORS.COM	3	2	7	6	2	1	3	1	3.13
TEM-JEM INC.	1	0	2	5	4	5	0	1	2.25
THE SCHROERING COMPANY, INC.	0	0	0	0	4	0	0	0	0.13
THOMASON-SOHM REALTY	1	0	0	0	0	0	0	0	0.15
	0	0	1	2	1	3	2	1	1.25
	0		1 0		0	3 0			
TURNER REALTY MANAGEMENT, INC.	-	0		0			0	0	0.00
TWENTY FIRST CENTURY RE	0	2	1	1	1	1	0	1	0.88
VERNON A. LUDWIG, REALTOR	0	1	1	2	1	1	1	2	1.13
VISTA REALTORS	1	1	3	10	18	27	36	8	13.00
WGN REALTORS	0	0	0	0	0	0	0	0	0.00
WHEATLEY REAL ESTATE	0	0	0	0	0	0	0	0	0.00
WILLIAM F. LIPPY, REALTOR	0	1	0	0	1	0	0	0	0.25
WIMSATT REALTY	3	0	0	0	1	1	0	0	0.63
YOURNEWHOMETODAY.COM	15	2	3	7	2	12	23	35	12.38
firm2136	0	0	0	0	0	0	0	0	0.00

