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The Physical Market Cycle Analysis of 4 Property Types in 54 Metropolitan Statistical Areas (MSAs).

GDP growth jumped to 7% in 4Q21 pushing up demand for real estate in all the property types. The labor market continued to be very tight with most companies offering higher wages in an attempt to attract workers. The stock market continued to hit new highs causing the real estate asset class to look more attractive, making buyers bid up prices. Construction material and labor costs rose justifying further price increases. Financing costs remained low, thus providing reasonable equity returns to real estate.

Office occupancy decreased 0.1% in 4Q21, and rents increased 0.2% for the quarter but were up 1.1% annually. Industrial occupancy improved 0.5% in 4Q21, and rents grew 2.7% for the quarter and were up 8.7% annually. Apartment occupancy was flat in 4Q21, and rents grew 0.9% for the quarter, and were up 11.9% annually. Retail occupancy improved 0.2% In 4Q21, and rents grew 1.0% for the quarter and were up 3.2% annually.

National Property Type Cycle Locations

Phase 2 — Expansion

Phase 3 — Hypersupply

Phase 1 — Recovery

4th Quarter 2021

Phase 4 — Recession

Source: Mueller, 2021

The National Property Type Cycle Locations graph shows relative positions of the sub-property types.

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The cycle monitor analyzes occupancy movements in four property types in 54 MSAs. Market cycle analysis should enhance investment-decision capabilities for investors and operators. The five property type cycle charts summarize almost 300 individual models that analyze occupancy levels and rental growth rates to provide the foundation for long-term investment success. Commercial real estate markets are cyclical due to the lagged relationship between demand and supply for physical space. The long-term occupancy average is different for each market and each property type. Long-term occupancy average is a key factor in determining rental growth rates — a key factor that affects commercial real estate income and thus returns.

**Market Cycle Quadrants**

Phase 2 — Expansion

- Declining vacancy
- New construction

Phase 3 — Hypersupply

- Increasing vacancy
- New construction

Phase 1 — Recovery

- Declining vacancy
- No new construction

Phase 4 — Recession

- Increasing vacancy
- More completions

Rental growth rates can be characterized in different parts of the market cycle, as shown below.

Office

The national office market occupancy level decreased 0.1% in 4Q21 and was down 0.7% year-over-year. How office demand shakes out over the next year is still a “jump ball” as many firms back-to-the-office plans were delayed or modified from the Omicron Variant of the COVID virus. Some firms are not renewing their space upon lease expiration. Most new office demand has been for high quality new space with strong amenities and attractive locations. Because most leasing has been in newer properties, average national asking rents improved 0.2% in 4Q21 and were up 1.1% year-over-year.

Note: The 11-largest office markets make up 50% of the total square footage of office space we monitor. Thus, the 11-largest office markets are in bold italic type to help distinguish how the weighted national average is affected.

Markets that have moved since the previous quarter are now shown with a + or - symbol next to the market name and the number of positions the market has moved is also shown, i.e., +1, +2 or -1, -2. Markets do not always go through smooth forward-cycle movements and can regress or move backward in their cycle position when occupancy levels reverse their usual direction. This can happen when the marginal rate of change in demand increases (or declines) faster than originally estimated or if supply growth is stronger (or weaker) than originally estimated.
Industrial occupancies increased 0.5% in 4Q21 and were up 1.3% year-over-year, creating yet another historic occupancy peak near 96%. Demand remained very strong as companies increased inventories from just-in-time levels to just-in-case levels. The switch from efficiency to resiliency should provide several years of increased demand, causing a continued tail wind for industrial demand. Supply continued to be constrained with less than 100 million square feet of new space built nationally in 2021. Owners pushed rents up 2.7% in 4Q21, creating an 8.7% increase year-over-year.

Note: The 12-largest industrial markets make up 50% of the total square footage of industrial space we monitor. Thus, the 12-largest industrial markets are in **bold italic** type to help distinguish how the weighted national average is affected.

Markets that have moved since the previous quarter are now shown with a + or - symbol next to the market name and the number of positions the market has moved is also shown, i.e., +1, +2 or -1, -2. Markets do not always go through smooth forward-cycle movements and can regress or move backward in their cycle position when occupancy levels reverse their usual direction. This can happen when the marginal rate of change in demand increases (or declines) faster than originally estimated or if supply growth is stronger (or weaker) than originally estimated.
The national apartment occupancy average was flat in 4Q21 but was up 1.4% year-over-year. The return to downtown continued and newly completed buildings filled quickly. Higher home prices kept many in the rental market, even if they were ready to purchase. Most homes were going for above asking price, with cash offers and no contingencies being the winning bidders. All but two markets were at their peak equilibrium (point #11) occupancy level on the 4Q21 Market Cycle graph. National average apartment asking rent growth was 0.9% in 4Q21 and up 11.9% year-over-year – the highest annual rent growth we have ever seen.

Note: The 10-largest apartment markets make up 50% of the total square footage of multifamily space we monitor. Thus, the 10-largest apartment markets are in bold italic type to help distinguish how the weighted national average is affected.

Markets that have moved since the previous quarter are now shown with a + or - symbol next to the market name and the number of positions the market has moved is also shown, i.e., +1, +2 or -1, -2. Markets do not always go through smooth forward-cycle movements and can regress or move backward in their cycle position when occupancy levels reverse their usual direction. This can happen when the marginal rate of change in demand increases (or declines) faster than originally estimated or if supply growth is stronger (or weaker) than originally estimated.
Retail

Retail occupancies were up 0.2% in 4Q21 and up 0.5% year-over-year. Demand for space continued to improve as economic growth drove retail sales higher. The Holiday shopping season was expanded to an earlier start, as many people feared lack of inventory from the supply chain disruptions that caused both manufacturing and retail inventory slowdowns and shortages. Net supply growth was slow and constrained to pre-leased space for credit quality tenants. National average retail asking rents were up 1.0% for the quarter and were up 3.2% year-over-year.

Note: The 14-largest retail markets make up 50% of the total square footage of retail space we monitor. Thus, the 14-largest retail markets are in **bold italic** type to help distinguish how the weighted national average is affected.

Markets that have moved since the previous quarter are now shown with a + or - symbol next to the market name and the number of positions the market has moved is also shown, i.e., +1, +2 or -1, -2. Markets do not always go through smooth forward-cycle movements and can regress or move backward in their cycle position when occupancy levels reverse their usual direction. This can happen when the marginal rate of change in demand increases (or declines) faster than originally estimated or if supply growth is stronger (or weaker) than originally estimated.
Hotel

Hotel Occupancy recovered further in 4Q21, with more hotels reopening. Leisure travel drove strong demand in many markets. Business travel also picked up in 4Q21 with in-person conferences continuing to grow.

Data is not available from the normal source – thus, Hotel coverage is suspended till further notice.
Market Cycle Analysis — Explanation

Supply and demand interaction is important to understand. Starting in Recovery Phase I at the bottom of a cycle (see chart below), the marketplace is in a state of oversupply from either previous new construction or negative demand growth. At this bottom point, occupancy is at its trough. Typically, the market bottom occurs when the excess construction from the previous cycle stops. As the cycle bottom is passed, demand growth begins to slowly absorb the existing oversupply and supply growth is nonexistent or very low. As excess space is absorbed, vacancy rates fall, allowing rental rates in the market to stabilize and even begin to increase. As this recovery phase continues, positive expectations about the market allow landlords to increase rents at a slow pace (typically at or below inflation). Eventually, each local market reaches its long-term occupancy average, whereby rental growth is equal to inflation.

In Expansion Phase II, demand growth continues at increasing levels, creating a need for additional space. As vacancy rates fall below the long-term occupancy average, signaling that supply is tightening in the marketplace, rents begin to rise rapidly until they reach a cost-feasible level that allows new construction to commence. In this period of tight supply, rapid rental growth can be experienced, which some observers call “rent spikes.” (Some developers may also begin speculative construction in anticipation of cost-feasible rents if they are able to obtain financing). Once cost-feasible rents are achieved in the marketplace, demand growth is still ahead of supply growth — a lag in providing new space due to the time to construct. Long expansionary periods are possible and many historical real estate cycles show that the overall up-cycle is a slow, long-term uphill climb. As long as demand growth rates are higher than supply growth rates, vacancy rates should continue to fall. The cycle peak point is where demand and supply are growing at the same rate or equilibrium. Before equilibrium, demand grows faster than supply; after equilibrium, supply grows faster than demand.

Hypersupply Phase III of the real estate cycle commences after the peak / equilibrium point #11 — where demand growth equals supply growth. Most real estate participants do not recognize this peak / equilibrium’s passing, as occupancy rates are at their highest and well above long-term averages, a strong and tight market. During Phase III, supply growth is higher than demand growth (hypersupply), causing vacancy rates to rise back toward the long-term occupancy average. While there is no painful oversupply during this period, new supply completions compete for tenants in the marketplace. As more space is delivered to the market, rental growth slows. Eventually, market participants realize that the market has turned down and commitments to new construction should slow or stop. If new supply grows faster than demand once the long-term occupancy average is passed, the market falls into Phase IV.

Recession Phase IV begins as the market moves past the long-term occupancy average with high supply growth and low or negative demand growth. The extent of the market down-cycle is determined by the difference (excess) between the market supply growth and demand growth. Massive oversupply, coupled with negative demand growth (that started when the market passed through long-term occupancy average in 1984), sent most U.S. office markets into the largest down-cycle ever experienced. During Phase IV, landlords realize that they could quickly lose market share if their rental rates are not competitive. As a result, they then lower rents to capture tenants, even if only to cover their buildings’ fixed expenses. Market liquidity is also low or nonexistent in this phase, as the bid-ask spread in property prices is too wide. The cycle eventually reaches bottom as new construction and completions cease, or as demand growth turns up and begins to grow at rates higher than that of new supply added to the marketplace.

Source: Mueller, Real Estate Finance, 1996

This research currently monitors five property types in 54 major markets. We gather data from numerous sources to evaluate and forecast market movements. The market cycle model we developed looks at the interaction of supply and demand to estimate future vacancy and rental rates. Our individual market models are combined to create a national average model for all U.S. markets. This model examines the current cycle locations for each property type and can be used for asset allocation and acquisition decisions.

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