

Cold Storage REITs

BofA Cold storage inventory tracker

Industry Overview

USDA data provides a proxy for COLD's business

In this report, we track United States Department of Agriculture (USDA) cold storage inventory levels. The USDA data reflects end-of-month stocks of meats, dairy products, poultry products, fruits, nuts and vegetables in refrigerated warehouses across the US. We view this as an important proxy for Americold's (ticker: COLD) inventory levels and same store stats given the correlation between the two.

USDA inventory levels decreased M/M in December

As shown in Exhibit 5, the latest USDA inventory levels decreased 2.7% M/M (prior month: -3.9%) in December. Based on the pre-pandemic average, we note that November through June is a period when USDA inventories decline (seasonality).

Overlay USDA inventory levels with COLD's exposure

To get a better understanding of the inventory level trends for COLD, we overlay USDA inventory levels data with COLD's commodity exposure (Exhibit 3). More specifically, we multiply COLD's commodity exposure (in %) and the respective USDA commodity inventory levels (in pounds) to calculate a COLD-weighted inventory level.

QTD COLD-weighted inventory levels decreased 0.5% Y/Y

In December, COLD-weighted inventory levels decreased -1.5% M/M (prior month: -4.6%) and decreased by -2.4% Y/Y (prior month: +0.7%). Comparing to the prior quarter, COLD-weighted inventory levels decreased -1.2%. Quarter to date, COLD-weighted inventory levels decreased -0.5% Y/Y. Our COLD model assumes a Y/Y increase in economic occupancy of +1.0% in 4Q23. Note that USDA inventory level is physical while we only model economic occupancy. As of 3Q23, 50.4% of COLD's rent and storage revenue is fixed commitments.

The USDA is an imperfect gauge of COLD's inventory

The USDA does not capture COLD's exposure to retail, packaged foods, bakery, fresh produce, seafood, distributors, and beverage. Only 44% of COLD's commodity exposures are captured by USDA data. Thus, our methodology may not provide an exactly precise prediction for COLD's inventory levels. Additionally, we also believe that the USDA data has become less relevant as a predictor of COLD's inventory levels given that COLD appears to be taking market share from competitors.

Link to the data: USDA inventory data

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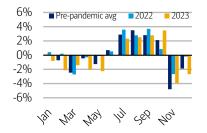
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REITs Team

See Team Page for List of Analysts

Exhibit 1: Total commodities: M/M %

2023 is tracking closely to pre-pandemic avg



Source: USDA

Note: Pre-pandemic period covers 2010-2019 BofA GLOBAL RESEARCH

Kev terms:

M/M: Month over month;

QTD: quarter to date;

SS: same store

Y/Y - Year over year

COLD: Americold Realty Trust Inc

USDA inventory levels: We show total and key sub-category inventory levels within the USDA report. The charts highlight the preand post- pandemic levels.

Correlation analysis: A quarterly and annual correlation analysis between the USDA data (total commodities) and COLD's SS revenue, SS NOI and SS occupancy.

USDA vs COLD

Exhibit 2: Commodities within the total cold storage chain

Frozen vegetables is the largest commodities in total cold storage exposure

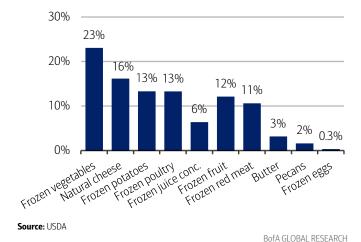
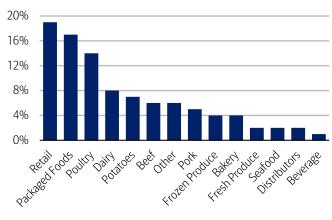


Exhibit 3: COLD exposure to different commodities

Percent of total warehouse revenue, trailing 12 months



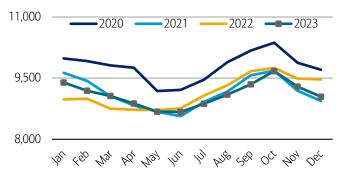
Source: Company filings

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Total USDA inventory levels

Exhibit 4: Total commodities: inventory levels (M pounds)

Inventory levels are trending up in 2023

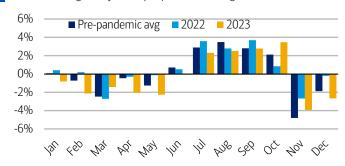


Source: USDA

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Exhibit 5: Total commodities: M/M % change

2023 is tracking closely to the pre-pandemic average



Source: USDA

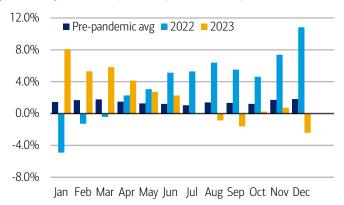
Note: Pre-pandemic period covers 2010-2019

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COLD-weighted USDA inventory levels

Exhibit 6: COLD-weighted total commodities: Y/Y % change

COLD-weighted inventory level Y/Y growth is trending down in 2023

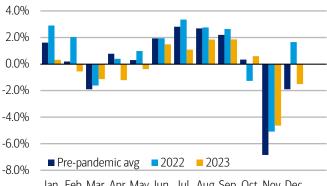


Source: USDA, company filings

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Exhibit 7: COLD-weighted total commodities: M/M % change

2023 is tracking closely to the pre-pandemic average



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Source: USDA, company filings

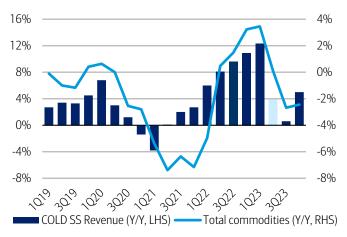
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Quarterly correlations: USDA vs COLD

Exhibit 8: COLD SS revenue vs USDA inventory

Growth in USDA inventory levels vs COLD SS revenue growth

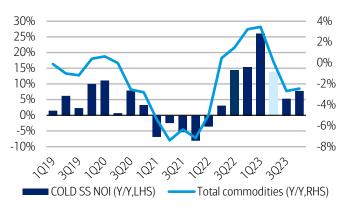


Source: USDA, Company filings Note: Light blue bar represents BofAe

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Exhibit 10: COLD SS NOI vs USDA inventory

Growth in annual USDA inventory levels vs COLD SS NOI growth

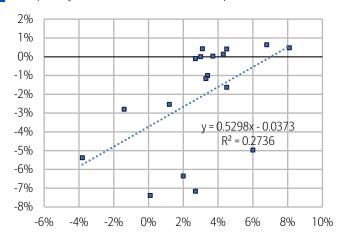


Source: USDA, Company filings Note: Light blue bar represents BofAe

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Exhibit 9: Correlation: USDA changes vs COLD SS revenue

On a quarterly basis, the correlation is 0.69 & r-squared is 0.48

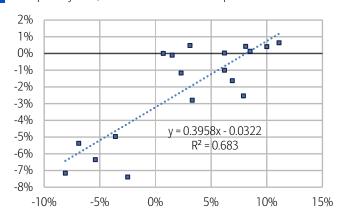


Source: USDA, Company filings

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Exhibit 11: Correlation: USDA changes vs COLD SS NOI

On a quarterly basis, the correlation is 0.85 & r-squared is 0.72



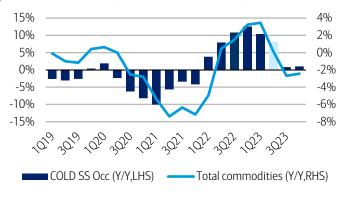
Source: USDA, Company filings

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Exhibit 12: COLD SS occupancy vs USDA inventory

Growth in USDA inventory levels vs COLD SS occupancy

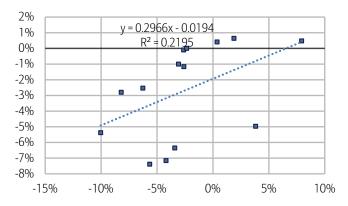


Source: USDA, Company filings Note: Light blue bar represents BofAe

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Exhibit 13: Correlation: USDA changes vs COLD SS occupancy

On a quarterly basis, the correlation is 0.7 & r-squared is 0.5



Source: USDA, Company filings

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Price objective basis & risk

Americold Realty Trust (COLD, B-1-7, \$28.46)

Our \$35 price objective is derived using forward EV/EBITDA multiple method. We believe this is the simplest method for valuing COLD but recognize there are several methods to determine valuation. Our PO is based on a one year forward EV/EBITDA multiple of 21.5x applied to our forward EBITDA forecast of \$570mn.

Downside risks to our PO are: increasing supply, development spending on large automated facilities, operational risks, and cold storage customers bringing more of their inventory to in-house cold storage networks.

Analyst Certification

I, Joshua Dennerlein, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.



US - REITs Coverage Cluster

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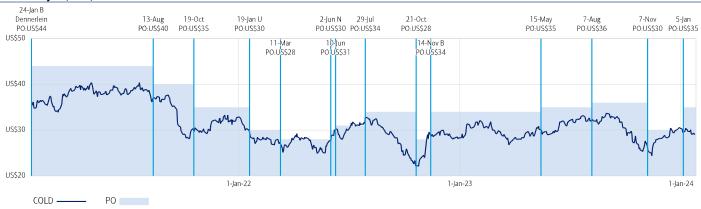
US - REITs Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Tanger Factory	SKT	SKT US	Jeffrey Spector
	WP Carey	WPC	WPC US	Joshua Dennerlein

Disclosures

Important Disclosures

Americold Realty Tr (COLD) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading 'Fundamental Equity Opinion Key'. Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: REITs (Real Estate Investment Trusts) Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	40	46.51%	Buy	33	82.50%
Hold	27	31.40%	Hold	21	77.78%
Sell	19	22.09%	Sell	16	84.21%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

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Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

Buy	≥ 10%	≤ /0%
Neutral	≥ 0%	≤ 30%
Jnderperform	N/A	≥ 20%

R2Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

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