

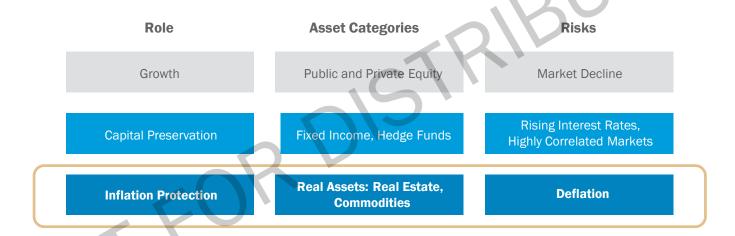
Quarterly Asset Class Report Real Assets

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Role in the Portfolio Real Assets

Canterbury Consulting recommends and communicates asset-class strategy with the objective of constructing a diversified portfolio of real asset strategies designed to (in aggregate):

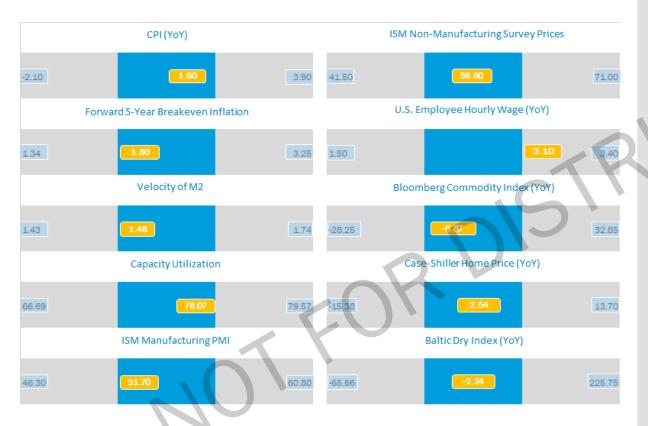
- Preserve purchasing power
- Generate uncorrelated returns to other asset classes
- Provide high risk-adjusted returns within the constraints of the two previous points



- Real assets are appropriate for investors with long time horizons (10+ years) and inflation linked liabilities.
- Canterbury's real asset portfolios are expected to deliver net of fees returns in excess of the diversified benchmark over full market cycles. The benchmark is equally weighted to TIPS, commodities, and commodity stocks:
 - 33% Barclays U.S. TIPS 1-5 Yr/ 33% Bloomberg Commodity / 17% S&P North American Natural Resources / 17% Alerian MLP

Asset Class Indicators

Real Assets

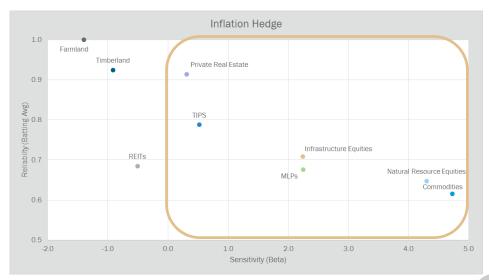


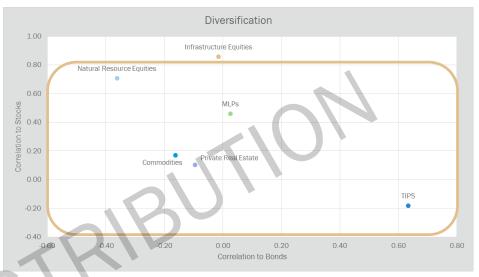
Current

+- 1 Standard Deviation From the Mean

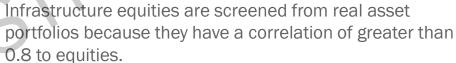
10-Year High and Low

- Canterbury monitors several inflation and real asset indicators to help detect imbalances that are expected to cause price pressures.
- Most current asset class indicators are within their one standard deviation band. As such, inflationary pressures seem subdued.
- Oil markets experienced modest volatility on the back of global trade concerns and declining bond yields. However, markets eventually stabilized as OPEC extended production cuts and U.S. oil inventories moved lower. Conversely, gold benefited from many of the same global uncertainties during the quarter.





Farmland, Timberland, and REITs are screened from inclusion in real asset portfolios because they don't exhibit a sensitivity to inflation of greater than zero.





Risk-adjusted returns of the remaining asset classes are used to help optimize real asset portfolios.

1) Based on 10-yr rolling data since inception 2) Takes average from 10-yr rolling data: FTSE NAREIT All Equity (1972), Bloomberg Commodity (1991), S&P NA Natural Resources (1996), Alerian MLP (1996), S&P Global Infra. (2002), NCREIF Property (1978), NCREIF Farmland (1992), NCREIF Timberland (1987), & Barclays US TIPS (1997) 3) as of June 30, 2018



Portfolio Process & Construction

Real Assets

Screening Process

Inflation Hedge

Diversifier

Risk-Adjusted Returns

Asset

Asset Mixes

Mixes	Sensitivity	Reliability	Correlation to Stocks	Correlation to Bonds	Sharpe Ratio
Liquid Direct	2.85	0.69	0.19	0.10	0.07
Dynamic Multi-Asset*	1.88	0.75	0.46	0.00	0.36
Diversified Direct	2.21	0.74	0.17	0.05	0.23
Morningstar U.S. Real Asset Index	0.77	0.77	0.65	0.04	0.39
CPI	1.00	1.00	-0.11	-0.28	NA

^{*} Principal DRA Strategy Mix Based on historical data from 3/1/1997 to 6/31/2018 Sharpe ratios are 10 year trailing returns

 Canterbury utilizes a screening process to narrow down the asset classes for inclusion in real asset portfolios based on pre-specified roles:

Inflation Hedge:

High Reliability (>50%) and Sensitivity (>0) to Inflation

Diversifier:

Low Correlation (<0.8) to Stocks and Bonds

Risk-Adjusted Returns:

Sharpe Ratio is considered when optimizing the allocations to remaining asset classes

 These roles are used to help build portfolios of real assets that exhibit a high degree of sensitivity (>1) and reliability (>60%) to inflation, low correlation to stocks & bonds (<0.6), and generate competitive risk-adjusted returns (>0.5).



Recommended Mixed & Allocations

Real Assets

Current Recommendations

Liquid Direct	Managers	Exposures
Commodities	50.0%	33.0%
TIPS	50.0%	33.0%
MLPs	25.0%	17.0%
Natural Resource Equities	25.0%	17.0%

Portfolio Ranges	5-10%
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Diversified Direct*	Managers	Exposures	
Commodities	33.0%	25.0%	
TIPS	33.0%	25.0%	
MLPs	17.0%	12.5%	
Natural Resource Equities	17.0%	12.5%	
Private Real Estate*	33.0%	25.0%	

Portfolio Ranges	5-15%

Multi-Asset	Managers	Exposures
Dynamic Multi-Asset Mix	100.0%	100.0%
Portfolio Ranges	5-10%	

- Investors with smaller real asset portfolios, or those who are unable or unwilling to take on illiquidity, can still gain diversified access to real assets by investing in a dynamic multiasset manager mix.
- A portfolio's allocation to real assets will fall within a range and be determined by expectations for inflation and underlying assets.

^{*}Private Real Asset allocations will vary by client appetite and output from private capital pacing models



Utilizing the framework laid out in this document, we can develop a diversified mix of exposures to the real asset universe.