

Western Asset Investment Grade Defined Opportunity Trust Inc.
Form N-CSRS
July 25, 2016

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES
Investment Company Act file number 811-22294

Western Asset Investment Grade Defined Opportunity Trust Inc.
(Exact name of registrant as specified in charter)

620 Eighth Avenue, 49th Floor, New York, NY 10018
(Address of principal executive offices) (Zip code)

Robert I. Frenkel, Esq.

Legg Mason & Co., LLC

100 First Stamford Place

Stamford, CT 06902

(Name and address of agent for service)

Registrant's telephone number, including area code: (888)777-0102

Date of fiscal year end: November 30

Date of reporting period: May 31, 2016

ITEM 1. REPORT TO STOCKHOLDERS.

The **Semi-Annual** Report to Stockholders is filed herewith.

Semi-Annual Report

May 31, 2016

WESTERN ASSET
INVESTMENT GRADE
DEFINED OPPORTUNITY
TRUST INC. (IGI)

INVESTMENT PRODUCTS: NOT FDIC INSURED NO BANK GUARANTEE MAY LOSE VALUE

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Fund objectives

The Fund's primary investment objective is to provide current income and then to liquidate and distribute substantially all of the Fund's net assets to stockholders on or about December 2, 2024. As a secondary investment objective, the Fund will seek capital appreciation. There can be no assurance the Fund will achieve its investment objectives.

The Fund seeks to achieve its investment objectives by investing, under normal market conditions, at least 80% of its net assets in investment grade corporate fixed-income securities of varying maturities.

Letter from the chairman

Dear Shareholder,

We are pleased to provide the semi-annual report of Western Asset Investment Grade Defined Opportunity Trust Inc. for the six-month reporting period ended May 31, 2016. Please read on for Fund performance information and a detailed look at prevailing economic and market conditions during the Fund's reporting period.

As always, we remain committed to providing you with excellent service and a full spectrum of investment choices. We also remain committed to supplementing the support you receive from your financial advisor. One way we accomplish this is through our website, www.lmcef.com. Here you can gain immediate access to market and investment information, including:

Fund prices and performance,

Market insights and commentaries from our portfolio managers, and

A host of educational resources.

We look forward to helping you meet your financial goals.

Sincerely,

Jane Trust, CFA

Chairman, President and Chief Executive Officer

June 30, 2016

II Western Asset Investment Grade Defined Opportunity Trust Inc.

Investment commentary

Economic review

The pace of U.S. economic activity moderated during the six months ended May 31, 2016 (the reporting period). Looking back, the U.S. Department of Commerce reported that third quarter 2015 U.S. gross domestic product (GDP) growth was 2.0%. The U.S. Department of Commerce then reported that fourth quarter 2015 GDP growth was 1.4%. Slower growth was attributed to downturns in nonresidential fixed investment and state and local government spending, along with a deceleration in personal consumption expenditures (PCE) and less export activity. The U.S. Department of Commerce's final reading for first quarter 2016 GDP growth released after the reporting period ended was 1.1%. This further slowdown was attributed to a number of factors, including a deceleration in PCE, a larger decrease in nonresidential fixed investment and a downturn in federal government spending.

Job growth in the U.S. was generally solid and was a tailwind for the economy during the reporting period. When the period began, unemployment was 5.0%, as reported by the U.S. Department of Labor. By May 2016, unemployment was 4.7%, its lowest level since December 2007.

Investment commentary (cont d)

Market review

Q. How did the Federal Reserve Board (Fed respond to the economic environment?

A. After an extended period of maintaining the federal funds rateⁱⁱⁱ at a historically low range between zero and 0.25%, the Fed increased the rate at its meeting on December 16, 2015. This marked the first rate hike since 2006. In particular, the U.S. central bank raised the federal funds rate to a range between 0.25% and 0.50%. In its official statement after the December 2015 meeting, the Fed said, "The stance of monetary policy remains accommodative after this increase, thereby supporting further improvement in labor market conditions and a return to 2 percent inflation." The Committee expects that economic conditions will evolve in a manner that will warrant only gradual increases in the federal funds rate; the federal funds rate is likely to remain, for some time, below levels that are expected to prevail in the longer run. At its meetings that concluded on January 27, 2016, March 16, 2016, April 27, 2016, and June 15, 2016 (after the reporting period ended), the Fed kept rates on hold.

Q. Did Treasury yields trend higher or lower during the six months ended May 31, 2016?

A. Both short-term and long-term Treasury yields declined during the reporting period. When the period began, the yield on the two-year Treasury note was 0.94%. Its low for the period was 0.64% on February 11, 2016, and it peaked at 1.09% on December 29, 2015. The yield on the two-year Treasury note ended the period at 0.87%. The yield on the ten-year Treasury note began the period at 2.21%. Its peak of 2.32% occurred on December 29, 2015, and its low of 1.63% was on February 11, 2016. The yield on the ten-year Treasury note ended the period at 1.84%.

Q. What factors impacted the spread sectors (non-Treasuries) during the reporting period?

A. The spread sectors generally posted positive results during the reporting period. Performance fluctuated with investor sentiment given the uncertainties regarding future Fed monetary policy, along with concerns over global growth and geopolitical issues. The broad U.S. bond market, as measured by the Barclays U.S. Aggregate Index^{iv}, returned 3.12% during the six months ended May 31, 2016.

Q. How did the high-yield bond market perform over the six months ended May 31, 2016?

A. The U.S. high-yield bond market, as measured by the Barclays U.S. Corporate High Yield 2% Issuer Cap Index, gained 5.34% for the six months ended May 31, 2016. The high-yield market declined during the first two months of the reporting period. This was triggered by a number of factors, including falling oil prices and poor investor demand. After stabilizing in February 2016, the high-yield market rallied sharply over the last four months of the reporting period. This turnaround occurred as oil prices started to rebound and the Fed reduced its expectations for rate hikes in 2016.

Q. How did the emerging markets debt asset class perform over the reporting period?

A. The JPMorgan Emerging Markets Bond Index Global (EMBI Global)ⁱ gained 5.30% during the six months ended May 31, 2016. The asset class declined over the first two months of the reporting period due to

concerns over economic growth in China, falling commodity prices and expectations for future Fed rate hikes. The asset class then rallied sharply over the last four months of the reporting period, as oil prices moved higher, global monetary policy remained accommodative and investor risk appetite improved.

Performance review

For the six months ended May 31, 2016, Western Asset Investment Grade Defined Opportunity Trust Inc. returned 4.08% based on its net asset value (NAVⁱⁱ) and 5.71% based on its New York Stock Exchange (NYSE) market price per share. The Fund's unmanaged benchmark, the Barclays U.S. Credit Index^{viii}, returned 4.34% for the same period. The Lipper Corporate Debt BBB-Rated Closed-End Funds Category Average^{ix} returned 3.67% over the same time frame. Please note that Lipper performance returns are based on each fund's NAV.

During this six-month period, the Fund made distributions to shareholders totaling \$0.60 per share. As of May 31, 2016, the Fund estimates that all of the distributions were sourced from net investment income.* The performance table shows the Fund's six-month total return based on its NAV and market price as of May 31, 2016. **Past performance is no guarantee of future results.**

Performance Snapshot as of May 31, 2016 (unaudited)

	6-Month Total Return**
Price Per Share	
\$20.48 (NAV)	4.08%
\$21.30 (Market Price)	5.71%
All figures represent past performance and are not a guarantee of future results. Performance figures for periods shorter than one year represent cumulative figures and are not annualized.	

**** Total returns are based on changes in NAV or market price, respectively. Returns reflect the deduction of all Fund expenses, including management fees, operating expenses, and other Fund expenses. Returns do not reflect the deduction of brokerage commissions or taxes that investors may pay on distributions or the sale of shares.**

Total return assumes the reinvestment of all distributions, including returns of capital, if any, at NAV.

Total return assumes the reinvestment of all distributions, including returns of capital, if any, in additional shares in accordance with the Fund's Dividend Reinvestment Plan.

Looking for additional information?

The Fund is traded under the symbol IGI and its closing market price is available in most newspapers under the NYSE listings. The daily NAV is available on-line under the symbol XIGIX on most financial websites. *Barron's* and the *Wall Street Journal's* Monday edition both carry closed-end fund tables that provide additional information. In

addition, the Fund issues a quarterly press

*This estimate is not for tax purposes. The Fund will issue a Form 1099 with final composition of the distributions for tax purposes after year-end. A return of capital is not taxable and results in a reduction in the tax basis of a shareholder's investment. For more information about a distribution's composition, please refer to the Fund's distribution press release or, if applicable, the Section 19 notice located in the press release section of our website, www.lmcef.com (click on the name of the Fund).

Investment commentary (continued)

release that can be found on most major financial websites as well as www.lmcef.com (click on the name of the Fund).

In a continuing effort to provide information concerning the Fund, shareholders may call 1-888-777-0102 (toll free), Monday through Friday from 8:00 a.m. to 5:30 p.m. Eastern Time, for the Fund's current NAV, market price and other information.

Thank you for your investment in Western Asset Investment Grade Defined Opportunity Trust Inc. As always, we appreciate that you have chosen us to manage your assets and we remain focused on achieving the Fund's investment goals.

Sincerely,

Jane Trust, CFA

Chairman, President and

Chief Executive Officer

June 30, 2016

***RISKS:** The Fund's investments are subject to credit risk, inflation risk and interest rate risk. As interest rates rise, bond prices fall, reducing the value of the Fund's holdings. The Fund may invest in lower-rated high-yield bonds or junk bonds, which are subject to greater credit risk (risk of default) than higher-rated obligations. The Fund may use derivatives, such as options and futures, which can be illiquid, may disproportionately increase losses and have a potentially large impact on Fund performance. The Fund may invest in securities or engage in transactions that have the economic effects of leverage which can increase the risk and volatility of the Fund.*

All investments are subject to risk including the possible loss of principal. Past performance is no guarantee of future results. All index performance reflects no deduction for fees, expenses or taxes. Please note that an investor cannot invest directly in an index.

The information provided is not intended to be a forecast of future events, a guarantee of future results or investment advice. Views expressed may differ from those of the firm as a whole.

- i Gross domestic product (GDP) is the market value of all final goods and services produced within a country in a given period of time.
- ii The Federal Reserve Board (Fed) is responsible for the formulation of U.S. policies designed to promote economic growth, full employment, stable prices and a sustainable pattern of international trade and payments.
- iii The federal funds rate is the rate charged by one depository institution on an overnight sale of immediately available funds (balances at the Fed) to another depository institution; the rate may vary from depository institution to depository institution and from day to day.
- iv The Barclays U.S. Aggregate Index is a broad-based bond index comprised of government, corporate, mortgage- and asset-backed issues, rated investment grade or higher, and having at least one year to maturity.
- v The Barclays U.S. Corporate High Yield 2% Issuer Cap Index is an index of the 2% Issuer Cap component of the Barclays U.S. Corporate High Yield Index, which covers the U.S. dollar-denominated, non-investment grade, fixed-rate, taxable corporate bond market.
- vi The JPMorgan Emerging Markets Bond Index Global (EMBI Global) tracks total returns for U.S. dollar-denominated debt instruments issued by emerging market sovereign and quasi-sovereign entities: Brady bonds, loans, Eurobonds and local market instruments.
- vii Net asset value (NAV) is calculated by subtracting total liabilities, including liabilities associated with financial leverage (if any), from the closing value of all securities held by the Fund (plus all other assets) and dividing the result (total net assets) by the total number of the common shares outstanding. The NAV fluctuates with changes in the market prices of securities in which the Fund has invested. However, the price at which an investor may buy or sell shares of the Fund is the Fund's market price as determined by supply of and demand for the Fund's shares.
- viii The Barclays U.S. Credit Index is an index composed of corporate and non-corporate debt issues that are investment grade (rated Baa3/BBB- or higher).
- ix Lipper, Inc., a wholly-owned subsidiary of Reuters, provides independent insight on global collective investments. Returns are based on the six-month period ended May 31, 2016, including the reinvestment of all distributions, including returns of capital, if any, calculated among the 7 funds in the Fund's Lipper category.

Fund at a glance (unaudited)

Investment breakdown (%) as a percent of total investments

The bar graph above represents the composition of the Fund's investments as of May 31, 2016 and November 30, 2015 and does not include derivatives, such as futures contracts, swap contracts and forward foreign currency contracts. The Fund is actively managed. As a result, the composition of the Fund's investments is subject to change at any time.

Spread duration (unaudited)

Economic exposure May 31, 2016

Total Spread Duration

IGI 6.79 years

Benchmark 7.03 years

Spread duration measures the sensitivity to changes in spreads. The spread over Treasuries is the annual risk-premium demanded by investors to hold non-Treasury securities. Spread duration is quantified as the % change in price resulting from a 100 basis points change in spreads. For a security with positive spread duration, an increase in spreads would result in a price decline and a decline in spreads would result in a price increase. This chart highlights the market sector exposure of the Fund's sectors relative to the selected benchmark sectors as of the end of the reporting period.

Benchmark	Barclays U.S. Credit Index
EM	Emerging Markets
HY	High Yield
IG Credit	Investment Grade Credit
IGI	Western Asset Investment Grade Defined Opportunity Trust Inc.

Effective duration (unaudited)

Interest rate exposure May 31, 2016

Total Effective Duration

IGI 6.88 years

Benchmark 7.17 years

Effective duration measures the sensitivity to changes in relevant interest rates. Effective duration is quantified as the % change in price resulting from a 100 basis points change in interest rates. For a security with positive effective duration, an increase in interest rates would result in a price decline and a decline in interest rates would result in a price increase. This chart highlights the interest rate exposure of the Fund's sectors relative to the selected benchmark sectors as of the end of the reporting period.

Benchmark	Barclays U.S. Credit Index
EM	Emerging Markets
HY	High Yield
IG Credit	Investment Grade Credit
IGI	Western Asset Investment Grade Defined Opportunity Trust Inc.

Schedule of investments (unaudited)

May 31, 2016

Western Asset Investment Grade Defined Opportunity Trust Inc.

Security	Rate	Maturity Date	Face Amount	Value
Corporate Bonds & Notes 91.3%				
Consumer Discretionary 11.6%				
<i>Auto Components 0.4%</i>				
ZF North America Capital Inc., Senior Notes	4.500%	4/29/22	\$ 300,000	\$ 302,775 ^(a)
ZF North America Capital Inc., Senior Notes	4.750%	4/29/25	590,000	592,212 ^(a)
<i>Total Auto Components</i>				<i>894,987</i>
<i>Automobiles 2.2%</i>				
Ford Motor Co., Senior Bonds	9.215%	9/15/21	1,140,000	1,461,198
Ford Motor Credit Co., LLC, Senior Notes	8.125%	1/15/20	640,000	760,950
General Motors Co., Senior Notes	4.875%	10/2/23	1,470,000	1,564,236
General Motors Co., Senior Notes	6.600%	4/1/36	290,000	333,475
General Motors Co., Senior Notes	5.200%	4/1/45	490,000	478,470
General Motors Co., Senior Notes	6.750%	4/1/46	130,000	152,844
<i>Total Automobiles</i>				<i>4,751,173</i>
<i>Hotels, Restaurants & Leisure 0.5%</i>				
GLP Capital LP/GLP Financing II Inc., Senior Notes	5.375%	4/15/26	280,000	292,600
Hilton Worldwide Finance LLC/Hilton Worldwide Finance Corp., Senior Notes	5.625%	10/15/21	170,000	176,214
McDonald's Corp., Senior Notes	4.700%	12/9/35	260,000	280,747
McDonald's Corp., Senior Notes	4.875%	12/9/45	370,000	412,925
<i>Total Hotels, Restaurants & Leisure</i>				<i>1,162,486</i>
<i>Household Durables 0.9%</i>				
Newell Brands Inc., Senior Notes	4.200%	4/1/26	1,150,000	1,220,064
Newell Brands Inc., Senior Notes	5.500%	4/1/46	600,000	687,249
<i>Total Household Durables</i>				<i>1,907,313</i>
<i>Media 7.5%</i>				
21st Century Fox America Inc., Senior Notes	6.650%	11/15/37	2,400,000	3,071,206
Charter Communications Operating LLC/Charter Communications Operating Capital Corp., Senior Secured Notes	6.384%	10/23/35	180,000	206,595 ^(a)
Charter Communications Operating LLC/Charter Communications Operating Capital Corp., Senior Secured Notes	6.484%	10/23/45	420,000	483,990 ^(a)
Comcast Corp., Bonds	6.400%	5/15/38	2,500,000	3,344,265
Comcast Corp., Senior Notes	5.700%	7/1/19	1,500,000	1,683,975
DISH DBS Corp., Senior Notes	7.875%	9/1/19	1,250,000	1,382,812