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FitchRatings

Discussion Agenda



Historical and forecast default rates

Late-stage leveraged credit market

Bankruptcy Enterprise Valuation and Creditor Recovery case study report series takeaways

Comparing recovery rate measures

Related Fitch Research reports

Two Components of Credit Ratings



Probability of Default

- The probability that an issuer will default on any debt obligation
- Captured in the Issuer Default Rating (IDR)
- Default rate data available in monthly Default Insight reports

Recovery Prospects

- The amount a creditor can expect to recover in the event the issuer does default
- Fitch recovery estimates captured in the Recovery Rating (RR)
- More important factor at lower end of IDR rating scale
- Measured by post-default issue bid prices and Ultimate recovery rates in court disclosure statements that are available in bankruptcy case study reports

Below-Average Default Rate Environment

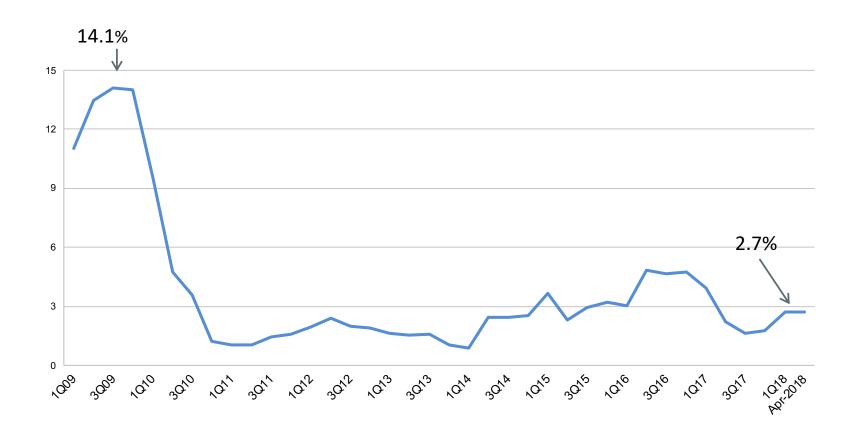


- Leveraged loans: 2.5% forecast equates to \$28 billion of volume
- High yield bonds: 2.0% forecast equates to \$27 billion of volume
- Rates peak and trough with wide variation around the average
- Default rates are a lagging indicator of a credit cycle downturn

Issue Type	TTM May 2018 Default Rate	TTM December 2018 Default Forecast	Long-Term Average
Secured Term Loans	2.5%	2.5%	2.7% (2007- 2017)
High Yield Bonds	2.7%	2.0%	4.1% (2001 - 2017)

U.S. High Yield TTM Default Rate





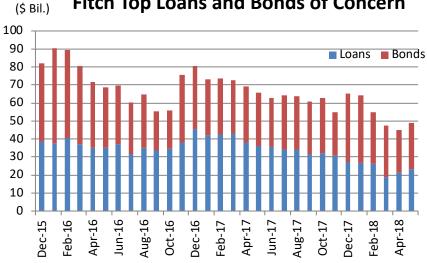
:: Fitch U.S. High Yield Default Index.



Indicators of Still Low Near-Term Default Rates in 2019



Fitch Top Loans and Bonds of Concern



U.S. Federal Reserve Senior Loan Officer Survey

Year	% Tightening
1999	9.1
2000	43.8
Peak Recession Tightest Point	59.7
2006	0.0
2007	19.2
Peak Recession Tightest Point	83.6
2017	(3.9)
2Q18	(11.3)

Source: Federal Reserve.

U.S. High Yield Distress Ratio

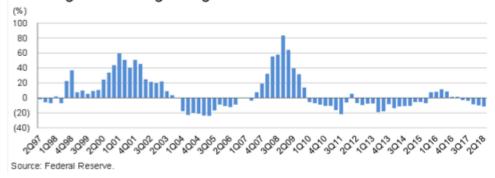
Year	%
1999	12.9
2000	37.3
Peak Recession Highest Point	38.1
2006	1.6
2007	10.3
2008	81.3
Peak Recession Highest Point	83.0
2017	6.1
April 2018	4.1

Note: High yield distress is defined as spreads

>1,000 bps.

Source: Bank of America Merrill Lynch.

U.S. Federal Reserve Senior Loan Officer Survey — Percentage of Banks Tightening Standards on C&I Loans

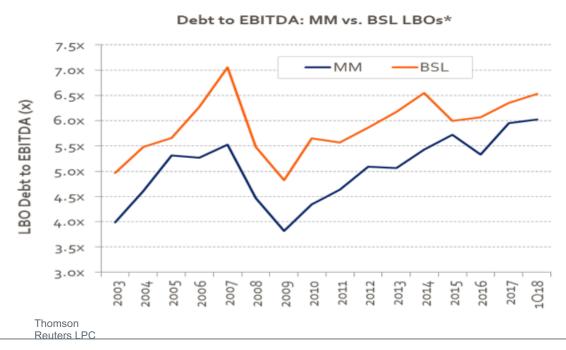




Considerations for Next Credit Cycle Downturn



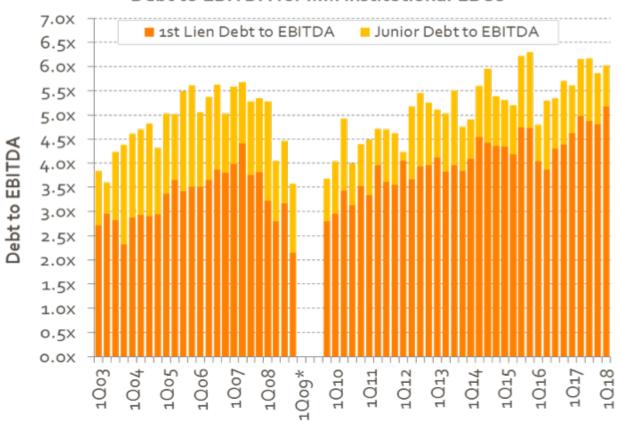
- Term loan market evolution to 80% cov-lite and looser restrictions on covenanted borrowers (more headroom) create tailwinds to lengthen this cycle
- Strong issuance volume in 2017 pushed out maturities: this also helps extend cycle. Historically, defaults have occurred an average of 3 years from issuance
- First-lien and total leverage on LBO transactions are becoming more aggressive



Considerations for the Next Credit Cycle Downturn







Thomson Reuters LPC

Fitch Bankruptcy Case Studies



- Twenty-one editions of Fitch Ratings' *Bankruptcy Enterprise Value and Creditor Recoveries* have been published covering 300 U.S. bankruptcy cases filed between Dec. 2002 and Nov. 2017
- Organized by sectors and each edition is updated annually
- Reports capture:
 - Bankruptcy filing drivers at individual company level and most common for sector
 - Outcome type going concern or liquidation
 - Time in bankruptcy
 - Debt reduction in bankruptcy
 - Enterprise valuation or asset sale proceeds valuation
 - Exit multiples
 - Ultimate loan and bond issue recovery rates in court-approved Chapter 11 plans of reorganization
 - Form of issue recovery by seniority: Cash, new debt, new equity, combination
 - Other case information such as petition date revolver utilization, noteworthy executory contract or pension liability issues

Bankruptcy Case Study Sector Key Default Drivers



Retail

- Highly leveraged
- Rise of discounter competition
- Increased online penetration; declining mall traffic
- Spending shift toward intangible categories
- Tighter credit: liquidity crunch

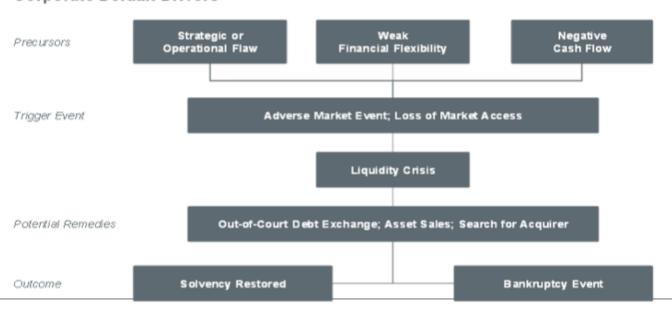
Telecom, Media and Technology

- Leveraging acquisitions
- Obsolete technology
- Disruptive consumption patterns
- Flawed business models
- Adverse regulatory changes

Corporate Default Drivers Negative cash flow

Energy and Commodities

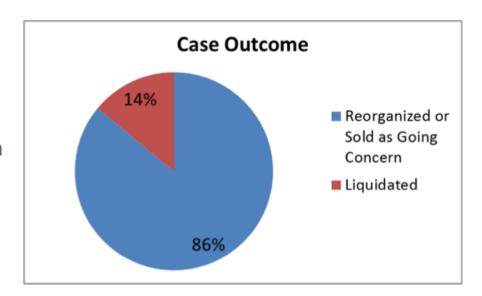
- Negative cash flow due to heavy capex followed by market price drop
- Small size, geographic concentration
- Legacy labor, contractual or environmental liabilities
- Liquidity crunch: ABL base cut



Case Study Outcomes



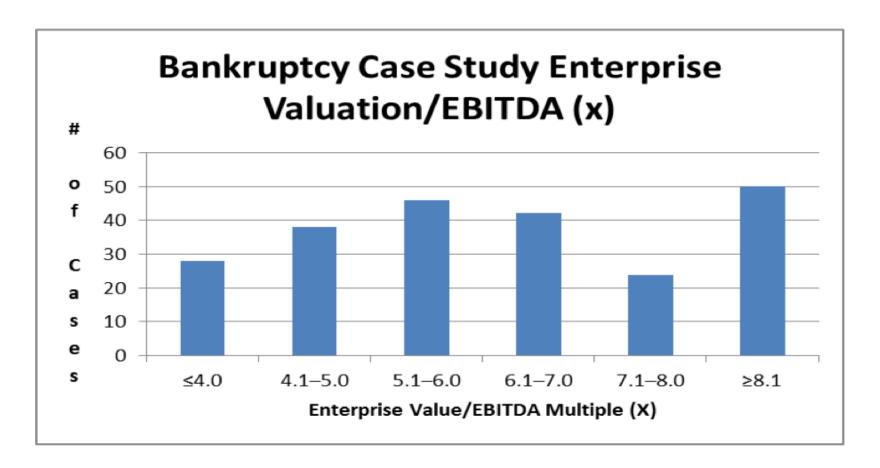
- Median case duration was 7 months
 - Cases are getting shorter due to more pre-filing restructuring support agreements
- Median debt reduction of 75%
- Median petition date assets of \$645 million
- Median enterprise value/EBITDA exit multiple of 6.1x
 - Multiple based on company forecast of EBITDA for year following year of exit from bankruptcy, and
 - Fundamental enterprise valuation included in court disclosure statement or based on proceeds from asset sales
- Liquidations more common in Retail sector case studies



Bankruptcy Exit Multiples – U.S. Corporate Case Studies



Multiples for 245 going concern cases with sufficient data to estimate a multiple



Case EV/EBITDA multiples inform Fitch's recovery analysis multiple assumptions

Revolving Credit Performance in Bankruptcy



Recovery range on petition date loan balances

Recovery Rate (% of par)	ABL Facility Count	Cash Flow Facility Count	
0-10	;	1 2	<u> </u>
11-30	0		5
31-50		1 13	3
51-70	4	4 11	L
71-90		2 20)
91-100	<u>9</u> :	<u>1</u> 95	<u> </u>
	99	9 146	5

Source: Fitch Revolving Credit Facility
Performance in Bankruptcy May 22, 2018 and
Fitch Bankruptcy Enterprise Valuation and
Creditor Recovery report series

Utilization rates

- Median petition date utilization rate of 92% for cash flow revolvers
- Median petition date utilization rate of 74% for ABLs
- Some of the recent E&P defaulters had maxed out their borrowing bases or had borrowing base deficiencies under their ABLs
- Retail ABL median utilization rate of 59%
- Actual petition date utilization rates support Fitch recovery analysis analytical assumptions
- Creditor distributions made in cash-only for 64% of revolver claim sample.

Comparing Issue Recovery Rate Measures



Median Recovery Rates

(% of Par)	30-Day	Emergence	Ultimate
First-Lien Loan Median	61.9	81.3	77.5
Secured Bond Median	50.9	58.9	57.0
Senior Unsecured Bond Median	19.6	21.1	17.1

Source: Fitch Ratings.

- Three measurement methods used by Fitch.
 - Secondary market issue bid prices 30-days post default
 - Secondary market issue bid prices at emergence
 - Ultimate recovery rates based on plan valuations for bankruptcy court documents or sales proceeds
- Recent study compared ultimate recovery rate outcomes to the two price-based measures for defaulted institutional term loan and bond issues
- Fitch's Recovery Ratings (RR1 through RR6) are based on estimates of Ultimate rates
- Outcomes relatively less certain at point 30-days after bankruptcy filing
- There are advantages and disadvantages to each approach

Comparing Recovery Rate Measures



30-Day Issue Bid Approach

Pros

- Data easy to gather
- Early stage indicator
- Most appropriate for holders that cannot or wish not to hold through bankruptcy process

Emergence Issue Bid Approach

Pros

- May best reflect market's expectations of the value of distributions made in the form of new debt or new common shares
- Easier data collection than ultimate

Ultimate Recovery Rates

Pros

- Includes data on securities that are not Fitch-index eligible such as revolvers
- Captures the impact of partial pay-downs or full repayment

Cons

- Ultimate recoveries can markedly differ – particularly in sectors with more volatile cash flow or longer duration cases
- Tend to be lower than final outcomes due to technical pressures and uncertain resolutions (if not a pre-pack)

Cons

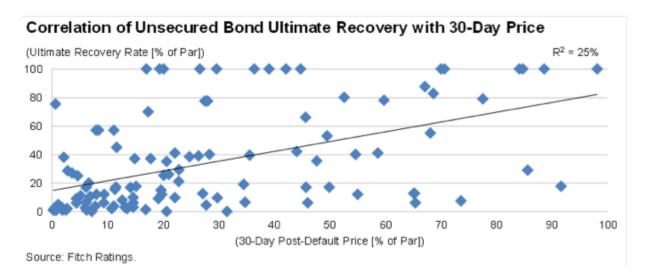
- Does not capture partial or full pay-downs
- Less liquid secondary as outcome of case becomes more certain towards end of reorganization process
- Bids may be stale

Cons

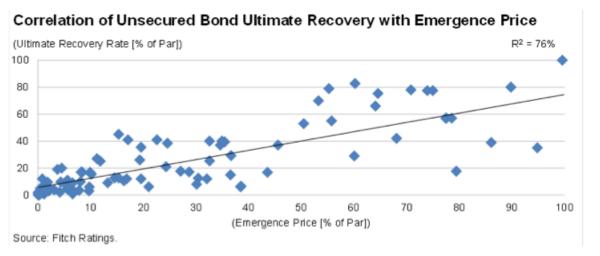
- Valuation made by third-party financial advisor may differ from market view of value of new securities
- More time-consuming to collect in bankruptcy court documents

Recoveries Less Certain at 30-Day Post-Filing Date Point





111 issues



109 issues

Fitch U.S. Top Bonds of Concern

(\$ mil)



Issuer	Outstanding	Industry
Community Health Systems Inc.	10,225.0	Healthcare & Pharmaceutical
EP Everest LLC	4,413.5	Energy
Neiman Marcus Group Inc.	1,743.4	Retail
Murray Energy Corp.	1,102.2	Metals & Mining
Jupiter Resources Inc.	1,100.0	Energy
Jones Energy Inc.	1,009.1	Energy
American Tire Distributor Inc.	975.0	Automotive
Hornbeck Offshore Services Inc.	816.9	Transportation
Fresh Market Inc.	0.008	Supermarkets & Drug Stores
Sears Holdings Corp.	717.1	Retail
Westmoreland Coal Co.	350.0	Metals & Mining
Imperial Metals Corp.	325.0	Metals & Mining
Getty Images Inc.	315.6	Broadcasting & Media
David's Bridal Inc.	270.0	Retail
High Ridge Brands Co.	250.0	Consumer Products
Community Choice Financial Inc.	241.9	Banking & Finance
BakerCorp International Inc	240.0	Banking & Finance
Mood Media Corp.	182.1	Leisure & Entertainment
Total	25,076.9	
Source: Fitch Ratings, data as of	June 5, 2018.	

See Fitch Leveraged Finance Research for additional Information



- U.S. High Yield Default Spike Characteristics (June 4, 2018)
- Revolving Credit Performance in Bankruptcy (May 22, 2018)
- Leveraged Loan Default Insight (May 21, 2018)
- High Yield Bond Default Report (May 11, 2018)
- Telecom, Media and Technology Bankruptcy Enterprise Value and Creditor Recoveries (May 10, 2018)
- Comparing Recovery Rate Measures (April 5, 2018)
- Looser Documentation Marks Late-Stage Credit Cycle (April 3, 2018)
- Energy, Power and Commodities Bankruptcy Enterprise Value and Creditor Recoveries (March 15, 2018)
- Retail Enterprise Value and Creditor Recoveries (Nov. 30, 2017)

(includes Fitch Research subscriber only content)

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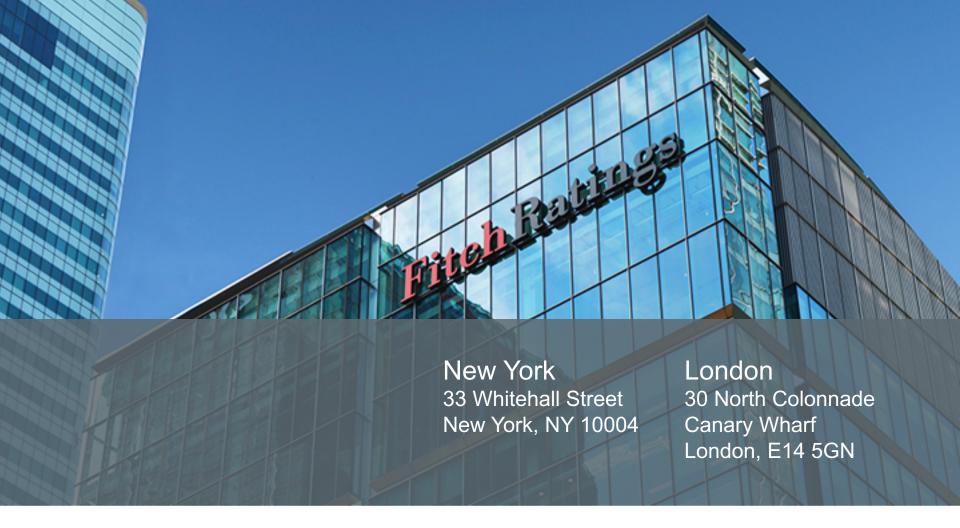
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