



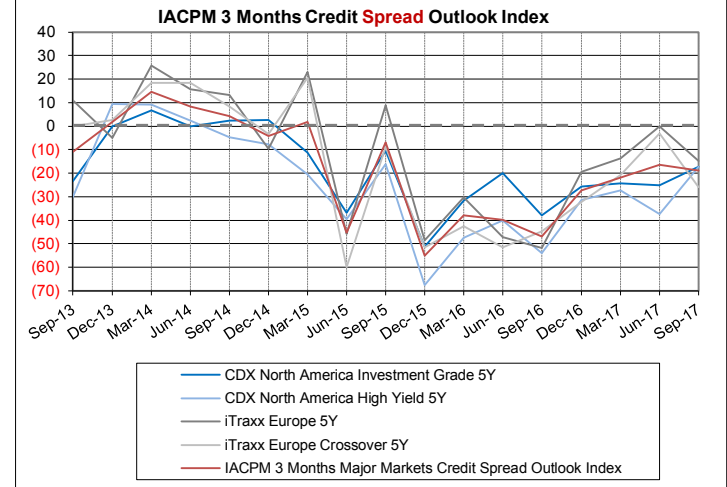
## Third Quarter 2017 Credit Outlook

### Expected direction Credit Spreads will move over the course of the next 3 months

Percent of total respondents selecting the option.	Up (widen)	Unchanged	Down (narrow)	IACPM 3 Months Credit Spread Outlook Index (positive numbers indicate credit improvement)				
	Sep-17	Sep-17	Sep-17	Sep-17	Jun-17	Mar-17	Dec-16	Sep-16
CDX North America Investment Grade 5Y	31%	55%	14%	(17.2)	(25.0)	(24.2)	(25.7)	(37.8)
CDX North America High Yield 5Y	34%	48%	17%	(17.2)	(37.5)	(27.3)	(31.4)	(54.1)
iTraxx Europe 5Y	33%	48%	19%	(14.8)	0.0	(13.8)	(19.4)	(51.7)
iTraxx Europe Crossover 5Y	44%	37%	18%	(25.9)	(3.1)	(20.7)	(32.3)	(44.8)

#### IACPM 3 Months Major Markets Credit Spread Outlook Index (weighted average based on number of responses)

(18.8) (16.4) (21.8) (27.3) (47.0)



### Expected direction Credit Default Rates will move over the course of the next 12 months (annual twelve month trailing)

Percent of total respondents selecting the option.	Up	Unchanged	Down	IACPM 12 Months Credit Default Outlook Index (positive numbers indicate credit improvement)				
	Sep-17	Sep-17	Sep-17	Sep-17	Jun-17	Mar-17	Dec-16	Sep-16
Average Corporate	41%	51%	7%	(33.9)	(31.1)	(28.9)	(29.6)	(50.0)
North America Corporate	53%	36%	11%	(41.7)	(41.2)	(20.0)	(13.9)	(55.3)
Europe Corporate	28%	66%	6%	(21.9)	(30.3)	(38.9)	(33.3)	(45.2)
Asia Corporate	52%	43%	4%	(47.8)	(27.3)	(37.5)	(58.8)	(55.6)
Australia Corporate	28%	67%	6%	(22.2)	(17.6)	(19.0)	(26.7)	(41.2)
Average Retail/ Consumer Mortgage	46%	50%	5%	(41.1)	(42.3)	(33.6)	(41.3)	(44.4)
Average Commercial Real Estate	42%	51%	8%	(34.0)	(41.3)	(31.5)	(43.5)	(49.4)

#### IACPM Aggregate Credit Default Outlook Index (weighted average based on number of responses)

(36.3) (38.0) (31.3) (37.9) (48.1)

