Market Sectors Close: 10/15/2019

| | Close OAS | Close Price | Daily OAS | Daily Price | WTD OAS | WTD Price | MTD OAS | MTD Price | YTD OAS | YTD Price | OAD | YTD XSRet | Mkt Cap | 6m Min | 6m Max | 6m %tile |
|--|--------------|----------------|--------------|----------------|------------|--------------|------------|--------------|------------|--------------|------|--------------|------------|-----------|-----------|-------------|
| US Long Credit Index | 164 | 120.61 | -1.9 | -0.01 | -1.9 | -0.0 | -2 | -1.3 | -33 | 16.7 | 14.1 | 706 | 100% | 152 | 180 | 40% |
| $\vdash AAA$ | 82 | 119.98 | -1.2 | 0.02 | -1.2 | 0.0 | -3 | -1.4 | -12 | 15.1 | 15.8 | 333 | 3.3% | 75 | 90 | 38% |
| $\vdash AA$ | 103 | 127.41 | -1.2 | -0.09 | -1.2 | -0.1 | -1 | -1.7 | -17 | 15.9 | 14.7 | 380 | 9.3% | 95 | 110 | 49% |
| ⊢ A | 126 | 122.83 | -1.7 | -0.04 | -1.7 | -0.0 | -3 | -1.3 | -28 | 16.7 | 14.6 | 565 | 36% | 116 | 140 | 35% |
| $\mathrel{\llcorner} BBB$ | 207 | 117.86 | -2.2 | 0.03 | -2.2 | 0.0 | -2 | -1.3 | -42 | 17.1 | 13.6 | 887 | 51% | 193 | 227 | 45% |
| Financials | 155 | 121.37 | -2.3 | 0.13 | -2.3 | 0.1 | -4 | -1.1 | -47 | 18.1 | 13.4 | 850 | 14% | 144 | 173 | 34% |
| Industrials | 162 | 120.41 | -1.8 | -0.04 | -1.8 | -0.0 | -2 | -1.4 | -31 | 16.5 | 14.3 | 661 | 78% | 151 | 178 | 39% |
| $\mathrel{\ \sqsubseteq}$ ex Energy & M/M | 154 | 120.59 | -1.7 | -0.04 | -1.7 | -0.0 | -3 | -1.3 | -31 | 16.7 | 14.5 | 661 | 67% | 144 | 171 | 34% |
| Utilities | 134 | 119.97 | -1.2 | -0.12 | -1.2 | -0.1 | -3 | -1.3 | -16 | 15.0 | 15.0 | 387 | 11% | 124 | 146 | 39% |
| \vdash Electric | 132 | 120.40 | -1.2 | -0.09 | -1.2 | -0.1 | -3 | -1.3 | -15 | 15.0 | 15.0 | 380 | 9.4% | 123 | 144 | 39% |
| \vdash Natural Gas | 148 | 115.17 | -1.2 | -0.25 | -1.2 | -0.2 | -3 | -1.5 | -20 | 15.4 | 15.7 | 490 | 0.9% | 139 | 162 | 44% |
| ${\mathrel{\mbox{$\perp$}}}$ Other Utilities | 140 | 120.35 | -0.9 | -0.76 | -0.9 | -0.8 | -3 | -2.0 | -7 | 14.3 | 15.5 | 255 | 0.2% | 131 | 155 | 33% |

| IG Corp Sectors | | | | | | | | | | $\Delta 10/$ | 11, | WTD: | $\Delta 10$ | /11, | MTD: $\Delta 09/30$ | | |
|---|--|--|--|--|--|--|---------------------------------|--|--|--|--|---|--|--|--|--|--|
| | Close OAS | Close Price | Daily OAS | Daily Price | WTD OAS | WTD Price | MTD OAS | MTD Price | YTD OAS | YTD Price | OAD | YTD XSRet | Mkt Cap | 6m Min | $_{ m Max}^{ m 6m}$ | $_{\rm %tile}^{\rm 6m}$ | |
| Basics ∟ Metals & Mining | 206 208 | 120.76 125.29 | -2.4 | 0.01 -0.20 | -2.4 -2.2 | 0.0 -0.2 | -4 -5 | -1.1 -1.1 | -30 -33 | 15.4 15.6 | 13.1 12.8 | 641 683 | 3.6% | 191 198 | 230 242 | 40% 33% | |
| Capital Goods | 156 | 116.50 | -1.3 | -0.13 | -1.3 | -0.1 | -1 | -1.6 | -46 | 17.9 | 14.3 | 886 | 4.8% | 148 | 177 | 1 7% | |
| Communications ⊢ Cable Satellite ⊢ Media ∟ Wirelines/Wireless | 177 184 173 176 | 121.90 120.63 125.19 121.57 | -2.7 -2.1 -1.1 -3.3 | 0.09 -0.26 -0.12 0.28 | -2.7 -2.1 -1.1 -3.3 | 0.1 -0.3 -0.1 0.3 | -4 -7 -2 -4 | -1.1 -0.9 -1.4 -1.0 | -53 -50 -38 -58 | 18.8 19.1 17.4 19.3 | 13.7 13.9 13.8 13.7 | 1008 964 809 1091 | 13% 3.1% 2.0% 7.5% | 169 175 168 167 | 204 212 194 204 | 24% 28% 30% 21% | |
| $ \begin{array}{l} {\rm Consumer\ Cyclical} \\ {\scriptstyle \vdash \ Autos} \\ {\scriptstyle \vdash \ Retailers} \end{array} $ | 162 319 122 | 118.81 109.72 122.52 | -2.1 -4.7 -1.7 | -0.09 0.42 -0.23 | -2.1 -4.7 -1.7 | -0.1 0.4 -0.2 | -2 3 -3 | -1.6 -1.7 -1.6 | -30 -21 -30 | 16.3 10.9 17.4 | 14.5 12.0 14.9 | 625 560 610 | 4.2% 0.8% 2.4% | 149 264 114 | 181 340 143 | 38% 91% 25% | |
| Consumer Non-Cyclical Food & Bev Healthcare Managed Care Pharma Tobacco | 163 170 162 180 139 249 | 117.77 117.35 117.16 114.92 120.02 109.01 | -1.3 -1.3 -1.0 -2.0 -1.3 -1.1 | -0.07 -0.18 -0.05 0.03 -0.01 0.00 | -1.3 -1.3 -1.0 -2.0 -1.3 -1.1 | -0.1 -0.2 -0.0 0.0 -0.0 0.0 | -3 -3 -3 -3 -5 1 | -1.3 -1.5 -1.3 -1.2 -1.0 -1.6 | -34 -58 -22 -10 -28 -37 | 17.3 19.9 16.3 13.3 16.9 15.7 | 14.8 14.7 15.4 14.8 14.8 13.9 | 759 1158 564 324 628 833 | 16% 4.5% 4.1% 2.8% 5.5% 1.2% | 153 159 155 168 133 214 | 185 206 182 202 159 261 | 20% 16% 21% 38% 21% 83% | |
| Energy ⊢ Independent ⊢ Integrated ⊢ Oil Field Services ⊢ Refining ∟ Midstream | 216 230 138 217 207 239 | 118.23 119.41 122.26 114.12 122.13 116.07 | -3.0 -3.6 -2.1 -3.9 -2.7 -2.9 | -0.03 0.09 0.14 0.48 -0.10 -0.21 | -3.0 -3.6 -2.1 -3.9 -2.7 -2.9 | -0.0 0.1 0.1 0.5 -0.1 | 2 4 -3 -4 -1 3 | -2.0 -2.1 -1.3 -0.9 -1.8 -2.5 | -30 -29 -36 -16 -45 -28 | 15.1 13.8 18.5 13.6 17.9 14.5 | 13.3 12.3 14.3 13.8 13.1 13.5 | 631 585 689 451 835 619 | 9.1% 2.3% 1.6% 0.5% 0.5% 4.2% | 179 170 122 179 176 204 | 227 241 154 244 221 250 | 71% 82% 50% 51% 59% 80% | |
| Industrial Other ∟ Universities | 124 96 | 119.68 123.82 | -1.6 | 0.01 -0.27 | -1.6 -0.2 | 0.0 | -2 -0 | -1.5 -2.7 | -18 -13 | 15.5 20.0 | 15.1 | 412 412 | 0.2% | 119 92 | 141 101 | 21% | |
| Technology Transportation | 125 | 119.56 115.81 | -2.3 | 0.10 | -2.3 | 0.1 | -5 | -1.1 | -33 | 18.0 | 15.4 | 675 | 6.9% | 118 | 148 155 | 23% | |

IG Non-Corp Sectors

| | Close OAS | Close Price | Daily OAS | Daily Price | WTD OAS | WTD Price | MTD OAS | MTD Price | YTD OAS | YTD Price | OAD | YTD XSRet | Mkt Cap | 6m Min | 6m Max | $_{ m \%tile}^{ m 6m}$ |
|--------------------|--------------|----------------|--------------|----------------|------------|--------------|------------|--------------|------------|--------------|------|--------------|------------|-----------|-----------|------------------------|
| Gov Owned, No Guar | 397 | 107.11 | -3.6 | 0.34 | -3.6 | 0.3 | 11 | -0.7 | 1 | 13.0 | 12.0 | 913 | 2.0% | 335 | 416 | 90% |
| Gov Guarantee | 29 | 76.28 | 0.2 | -0.17 | 0.2 | -0.2 | -4 | -0.8 | -23 | 12.8 | 15.0 | 514 | 0.2% | 28 | 37 | 2% |
| Munis | 129 | 136.84 | -0.1 | -0.26 | -0.1 | -0.3 | 3 | -2.1 | -13 | 14.2 | 12.2 | 308 | 5.6% | 117 | 130 | 97% |
| Sovereigns | 151 | 127.72 | -1.4 | 0.03 | -1.4 | 0.0 | -10 | -0.0 | -49 | 18.6 | 14.0 | 927 | 4.9% | 145 | 183 | 13% |
| Supranational | 28 | 127.47 | 0.4 | -0.30 | 0.4 | -0.3 | 2 | -1.8 | -7 | 13.8 | 14.1 | 155 | 0.2% | 24 | 33 | 25% |

| IG Fin Sectors | | | | | | | | | | | | | ghter | 2-Z move wider | | |
|-----------------------------|--------------|----------------|--------------|----------------|------------|--------------|------------|--------------|------------|--------------|------|--------------|------------|----------------|-----------|-------------|
| | Close OAS | Close Price | Daily OAS | Daily Price | WTD OAS | WTD Price | MTD OAS | MTD Price | YTD OAS | YTD Price | OAD | YTD XSRet | Mkt Cap | 6m Min | 6m Max | 6m %tile |
| Banks | 151 | 123.89 | -3.0 | 0.25 | -3.0 | 0.3 | -5 | -0.9 | -53 | 18.6 | 13.0 | 915 | 8.5% | 140 | 170 | 35% |
| \vdash US SIFI Banks (Sr) | 134 | 121.57 | -2.2 | 0.16 | -2.2 | 0.2 | -3 | -1.0 | -50 | 18.0 | 13.4 | 864 | 2.9% | 121 | 153 | 39% |
| ⊢ US SIFI Banks (Sub) | 176 | 129.11 | -2.2 | 0.07 | -2.2 | 0.1 | -5 | -0.9 | -55 | 20.2 | 13.2 | 998 | 2.0% | 160 | 194 | 47% |
| | 161 | 125.86 | -1.2 | -0.00 | -1.2 | -0.0 | -4 | -0.9 | -40 | 18.0 | 13.7 | 777 | 1.4% | 147 | 176 | 54% |
| ${\bf Brokers/AssetMngr}$ | 184 | 116.61 | -2.3 | 0.20 | -2.3 | 0.2 | -1 | -1.3 | -33 | 16.0 | 14.6 | 667 | 0.4% | 172 | 203 | 25% |
| Fin. Companies | 223 | 105.56 | -0.8 | -0.04 | -0.8 | -0.0 | 2 | -1.3 | -92 | 20.4 | 11.5 | 1484 | 0.5% | 216 | 269 | ■ 10% |
| Life | 175 | 120.18 | -2.0 | 0.04 | -2.0 | 0.0 | -3 | -1.3 | -42 | 17.7 | 13.9 | 798 | 1.8% | 160 | 188 | 44% |
| P&C | 137 | 122.52 | -1.0 | -0.11 | -1.0 | -0.1 | -2 | -1.6 | -26 | 16.9 | 15.0 | 518 | 2.0% | 126 | 150 | 42% |
| REITs | 143 | 110.45 | -0.9 | -0.22 | -0.9 | -0.2 | -3 | -1.3 | -29 | 16.6 | 13.3 | 604 | 1.1% | 135 | 154 | 36% |