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*The Quality of Pitches in Major League Baseball*

We investigate the quality of pitches thrown in Major League Baseball (MLB). The approach is based on characterizing pitches based on pitch count and a descriptor. The descriptor may include information on the type of pitch, the speed of the pitch, the location of the pitch, etc. This is a big data problem with roughly 750,000 pitches thrown in a single season of MLB. If we are able to assess the quality of pitches, then a host of practical questions may be addressed. For example, can we detect when a pitcher's performance begins to deteriorate prior to bad results?