

Compositions and methods are disclosed for improving seed quality. For example, treating a stand of seed crops with a seed crop treatment that includes an effective amount of cyanate, thiocyanate, an acceptable salt of cyanate or thiocyanate, an ester of cyanate or thiocyanate, an isocyanate or isothiocyanate, or a combination thereof results in one or more improved seed qualities compared to a control. The improved seed qualities may include, but are not limited to, enhanced seed vigor, increased quantity of saleable seed, increased proportion of saleable seed, increased uniformity of seed shape and size, and desirable bag weight.