STOLLER'S HORMONE MODEL FOR CROP PRODUCTIVITY
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The hormone model developed and used by Stoller Enterprises Inc, includes auxins, cytokinins, gibberellins, abscisic acid and ethylene. Naturally, there are a plethora of other hormones that are critical to crop productivity, but in order to more easily address and visualize the complexity both temporally and functionally of hormone performance, only the above 5 hormones are included in the model. This model is used both for the duration of the cropping sequence from germination to harvest for "row" crops as well as for development during the reproductive phase of the next generation of the crop (the grain or fruit). Included in the model are the rather rapid fluctuations in hormone balance that take place in a circadian fashion in the canopy, as well as the balance generated by the root system.