Figure 1: *State transitions of the bees in the environmental simulation.*
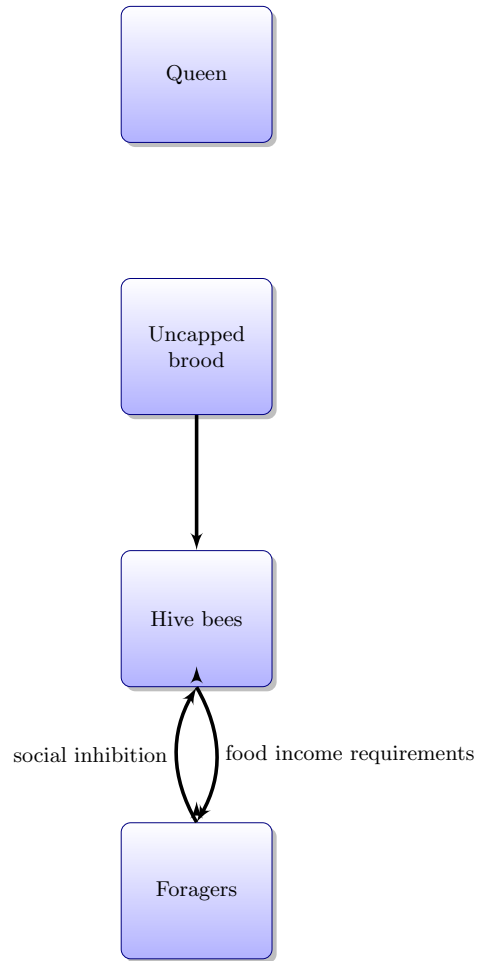
Figure 2: *Advanced honey bee social dynamics covered by this model*