

DIY Hive Sentry® Design

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The University of Montana, Bee Alert, and S&K Electronics are designing the next generation of electronic hives for bee management. We are asking you to help us design a system that best meets your needs. This survey asks you to rank your preferences for present and projected capabilities; then asks for your list of additional functionality.

Our system (Hive Sentry®) uses satellite communications (Hive Sat™). Each electronic hive or pallet is termed a Smart Hive™. Hive Sentry® allows the beekeeper to remotely monitor hive conditions and yard security. Hive Sat™ is a hive or pallet-based transmitter with GPS capability and an internal motion detector. The unit has input ports for three external switches and a sensor. When a motion detector or any other switch or sensor is triggered, Hive Sat™ transmits an alarm to your cell phone or PC. While Hive Sat™ is guarding a yard, it can also monitor a gate, hive or pallet, a bear trap or fence, even the weather. The unit can send daily or weekly reports, in addition to alarms.

Beekeeper Information - Check box that best describes your beekeeping operation

Size <100 100-500 500-1000 >1000 >5000 >10000 Pollinator Honey Pro. Queen
 (# Colony) [] [] [] [] [] [] [] [] []

Communication from Beeyard

Preferred **Satellite** **Cell Phone** **LandPhone** **DSL** **None**
 Communications [] [] [] [] [] []

Rank Importance of Feature

	High	Medium	Low	None
Motion Detection for hive or pallet	[]	[]	[]	[]
GPS Tracking of hive or pallet	[]	[]	[]	[]
Guarding of many hives within a yard	[]	[]	[]	[]
Beeyard gate open/closed	[]	[]	[]	[]
Bear Trap door open/closed	[]	[]	[]	[]
Bear fence hot/neutral	[]	[]	[]	[]
Motion Detection in the beeyard	[]	[]	[]	[]
Vehicle Detection in the beeyard	[]	[]	[]	[]
Hive Weight	[]	[]	[]	[]
Pallet Weight	[]	[]	[]	[]
Hive Temperature	[]	[]	[]	[]
Rainfall Amount	[]	[]	[]	[]
Max Temperature	[]	[]	[]	[]
Minimum Temperature	[]	[]	[]	[]
Soil Moisture	[]	[]	[]	[]
Solar Radiation	[]	[]	[]	[]
Relative Humidity	[]	[]	[]	[]
Bee Flight activity (hive counter)	[]	[]	[]	[]

Other _____ [] [] [] []
 Name what _____ [] [] [] []
 you'd like _____ [] [] [] []

Preferred report frequency*

	Once Daily	Twice Daily	Once Weekly	Biweekly
For Hive Measurements like Weight	[]	[]	[]	[]
For Meteorological Data	[]	[]	[]	[]

*Alarms are transmitted as occur; GPS tracking at a maximum of 30 minute intervals