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### Best Management Practices for use of Propane Cannons in Production Agriculture

Adopted by the Glenn County Board of Supervisors, November 2, 2021

1. Limit use to when wildlife damage will be most prevalent. For example, wait to turn on device until trees have budded out, not when first planted. The extra week or two will extend the effectiveness of this tool.
2. Aim propane cannon away from neighboring residences and as far back from fence lines as feasible.
3. Consider frequency intervals the propane cannon should be set. Attempt to maintain a pre-determined level of economic threshold for control of wildlife pests.
  - a. *Economic threshold is defined as the pest density at which management action should be taken to prevent an increasing pest population from reaching the economic injury level.*
4. Limit use to time of day when wildlife pressure is highest.
5. Contact nearby neighbors to share your wildlife damage control strategies, include time of day the device will be in operation and the planned duration. Discuss considered alternatives and their pros and cons.
6. Implement varying management techniques when using a propane cannon; thus acknowledging how each pest and crop type should be handled individually to meet its unique scenario.
7. Consider if nighttime use is effective? Is the target species active after it's dark? Customizing use will make this tool most useful.
8. Monitor the site frequently. Make notes and adjust use as changes occur.
9. Move propane cannon, every 3-5 days, to keep wildlife from becoming accustomed to the sound.
10. Find natural sound buffers to place the propane cannon between the intended control site and neighbors. This could include berms, hedge/tree rows, large buildings, or even a stack of hay bales.
11. Consult your Pest Control Advisor and local UC Farm Advisor for additional tactics and management ideas to effectively use a propane cannon and manage wildlife pressures.

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Questions or concerns related to the use of propane cannons in production agriculture, should be directed to the Glenn County Department of Agriculture, 530-934-6501 or [agcommr@countyofglenn.net](mailto:agcommr@countyofglenn.net)