

SMALL ENGINES

Dept EM

All exhibits should involve engines smaller than 20 horsepower for classes 1305-1307. Displays are limited to 4' wide and 4' deep - both upright and floor displays.

https://www.kansas4-h.org/events-activities/fairs/kansas-state-fair/docs/energy-management/Small_Engines%20Scorecard.pdf.

1305 - DISPLAY - Exhibit a display, selecting one of the following options: a display identifying different engine or lawn and garden equipment parts or a display showing the function of the various engine or lawn and garden equipment parts; OR a display identifying and explaining the function(s) of different special tools needed for small engine work; OR 3) a display illustrating and providing the results of any one of experiments that are included in the project books. No complete engines, lawn tractors, tillers, chainsaws are permitted for display. Maximum tri-fold size is 3' x 4'.

1306 - MAINTENANCE - Exhibit a display that illustrates either 1) Routine maintenance procedures OR 2) Diagnosing and troubleshooting specific problems in an engine. No complete engines, lawn tractors, tillers, chainsaws, etc. are permitted for display, using a maximum tri-fold size of 3' x 4'.

1307 - OPERATION - Exhibit an operable small engine (no more than 20 HP) overhauled or rebuilt by the member. Include maintenance schedule for the engine and a brief description of steps taken by the member overhauling or rebuilding the engine. Maximum tri-fold size is 3' x 4'. Engine should contain no fuel in tank or carburetor.

A Champion and Reserve Champion will be selected in each class as applicable.

Champion and Reserve Champion from these classes will be combined with other Engineering & Tech Champions (Rocketry, Ag Mech Welding, Astronomy, Building Block Construction, Computer Science, Robotics, Small Engines, and UAS) to determine an overall Grand Champion and Reserve Grand Champion Engineering & Technology.