

The 23rd Annual "This is only a hobby" 1/2A Stunt, Scale & Sport Race Contest

**Sunday, Sept. 9, 2018
AMA Sanction #1227**

Location - Aurora airport, Sugar Grove, Il. The Aurora airport is located on Hwy 30, approximately ½ mile West of Hwy 47. Turn at the road immediately East of the airport hangers and follow this road around to the flying site.

**Registration - starts at 8:00 a.m. Flying starts at 10:00 a.m.
Registration closes at 12:00 noon.
\$10 – per event**

**Models - All models must conform to AMA safety rules.
(NO dacron lines, steel ONLY)
Loaned planes allowed, but only 1 entry per plane, per event**

**Stunt Event - All four PAMPA skill levels will fly the novice (Beginner) pattern.
0.061 cu. in. (1cc) maximum engine displacement.
Electric motors allowed with a maximum prop diameter of 6". Total disk area for multi-motor electric powered models cannot exceed 28 sq. in.
Any airplane design allowed.
All airplanes built with solid wood wings will receive 10 bonus points.
All airplanes with .051" or smaller engine displacement will receive 10 bonus points.
Twin-engine airplanes are allowed; however, the total displacement cannot exceed 0.061. The only exception being the use of WenMac, Testors, OK Cub or single bypass reed valve Cox .049 engines. In that case, the total displacement is restricted to .102 cu. in.**

**1/2A Sport Race - This is a "Coxy-Hazel" event, similar to the SIG "Foxy-Hazel" event except flown with Cox reed-valve powered SIG 1/2A Skyray airplane. The rules are detailed on the following page.
Loaner engines and planes will be available for the race event.**

1/2A 'Sorta Scale' event – Rules are located on page 3 of this flier.

Awards - Awards for first three places in each PAMPA skill level, first three places in 1/2A sport race and first three places in the 1/2A scale event.

For more information contact:

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Coxy-Hazel Racing Rules

This is a 1/2A sport race intended to use a common 'beginner level' airplane and engine combination.

Airplane

The Sig '1/2A Skyray' is the ONLY accepted airplane for the event. The airplane may be modified to strengthen/stiffen the airframe. The front section of the fuselage, located in front of the wing, may be shortened to facilitate balance with the 8cc tank used on the Black Widow, etc., however the remaining primary dimensions (length, moments, wingspan, wing area, stab area, etc.) and fuselage profile, etc. must remain.

The controls (bellcrank, pushrod, leadouts) must be external and positioned approximately in their designed position. The leadouts must extend beyond the wingtip.

Engine

Many variations exist of the reed valve Cox engines. Any reed valve, .049 cu. in. displacement Cox engine may be used with an integral Cox tank (see below). If specific engines or setups tend to dominate the event, we can consider restricting the number of intake ports or particular engine models.

Engines must be hand started. No starter of any type (including the spring starter) may be used.

Propeller

Propellers are restricted to 5 x 3, 5 x 4, 6 x 3 and any in-between prop size from any commercial manufacturer. Fiberglass and carbon fiber props are NOT allowed.

Props may be cleaned up and balanced.

Fuel Tank

No external tanks are allowed. The fuel tank must be integral with the engine. The maximum tank size is restricted to the large (8 cc) Cox tank, as used on the Black Widow, Golden Bee, Venom, etc. No tank extensions allowed.

Fuel

The club will provide 15% Nitro glow fuel for all contestants. All contestants will use the same fuel.

Control Lines

.012" stranded wire cables, **provided by the race officials**

Race

The race is conducted '3 up'. A race consists of 100 laps. The timed race starts with a signal from the race director. Engines will be started when the start signal is given. The airplane must be hand launched, not ROG. The timer, for each contestant, runs continuously from signaled start until 100 laps are achieved. Time permitting, a final race will be held between the 3 fastest qualifiers.

The normal flying height should be maintained between 6' to 8', except when passing. Passing height should not exceed 12'. Following a pass the pilot must return the plane to the nominal 6' to 8' height.

Whipping is not allowed except during take-off and landing.

Repeated warnings by the race director for whipping or flying height violations will result in disqualification. This is up to the race director's discretion.

Contestant

The contestant must be the person supplying the airplane and may be either the pilot or pitman. A contestant may have up to a 2-man pit crew.

Timer/Counter

A timer and counter are used for each contestant. This may be the same person with a stopwatch and lap counter.

1/2A Profile 'Sorta Scale' Event

Construction:

- Aircraft must be a true profile; fuselage must be a flat sheet.
- The maximum fuselage thickness with doublers will be 3/8". This does not include a radial engine mount. The support for a radial mount cannot extend more than 1 1/2" from the face of the engine mount.
- Engine nacelles must also be profile (no cowling around the engine).
- 36" maximum wingspan.
- No throttles allowed.
- The maximum allowed engine displacement is .051 cu. in.
- Twin-engine airplanes are allowed, however total displacement cannot exceed .051 cu. in. unless the following engines are used: Wen Mac; Testors; OK Cub, or single bypass reed valve Cox engines. In that case, the total displacement is restricted to .102 cu.in.
- Electric powered models are allowed with a maximum prop diameter of 6". The total disk area for multi-motor electric powered models cannot exceed 28 sq. in.

Judging and Scoring:

- **Static:**
 - All aircraft must be accompanied with three-view scale drawings.
 - Aircraft will be evaluated on a table placed 6 feet from the judges.
 - 0-20 points for scale outline, dihedral and landing gear location.
 - 0-20 points for finish.
 - 0-20 points for detail.
- **In-flight:**
 - Flight will be off pavement
 - The aircraft must complete a minimum of 10 laps (flying).
 - 0-10 points for take-off.
 - 0-10 points for level flight.
 - 0-10 points for landing.
 - 0-20 points for wowing the judges.

The Aurora airport is located on the North side of Hwy 30, approximately 1/2 mile West of Hwy 47 in the town of Sugar Grove.

