



League of Silent Flight  
C/O Academy of Model Aeronautics  
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**2013 AMA / LSF Soaring Nationals  
Cross Country Competition – June 29 & 30  
Two classes – winch launch & electric launch**

The Cross Country Competition is operated by the League of Silent Flight (LSF) for its members and the Soaring Community at large at the AMA / LSF Soaring Nationals, held at Muncie, IN.

The intent of this event is to:

1. Provide team competition for longest distance travelled over a multiple lap 10K goal and return course in a single flight.
2. Provide a venue for all levels of LSF goal and return task achievement.
3. To encourage teamwork, fellowship and information sharing among the contestants.
4. Have fun.

**Winch launch class** – Teams provide their own 12 volt launch equipment. Sharing the launch equipment with other participants is encouraged.

**Electric launch class** – Sailplanes must be equipped with ALES (altitude limited electric soaring) electronic devices limiting the motor run to 200 meter maximum altitude under power.

This event will be operated from the Monroe Central Jr. / Sr. High School property located at 1918 N 1000W in Parker City, Indiana.



High School

All Sailplanes are launched from an area setup by the event contest director and enter a predefined course flying the sailplanes 10 kilometers to the south and return on the same path.

**The 2013 Cross Country Competition is two days in length. Each team's best single flight per day will be scored on a prorated basis in comparison to the team travelling the longest distance. Overall standings will be determined by the sum of the scores from each day. Shortest elapsed time will be used as a tie-breaker.**

**Contest registration (one per team) is required to fly on contest days. On site registration will also be available. The site will be open for practice flights and LSF goal and return attempts on Friday, June 28.**

**Winch launch class** - the method of getting the sailplane airborne is by means of a 12 volt winch with a maximum ground line length of 300 meters.

**Electric launch class** – the method of getting the sailplane airborne is by means of onboard motor driven propeller. Motor run must be controlled by an ALES device that limits the motor run to 200 meter maximum altitude under power. Multiple motor runs in a single flight are allowed prior to entering the course. Motor shutoff must occur before crossing the start line. ***Any motor run subsequent to entering the course voids the flight (zero score).***

Regardless of launch method, the pilot is expected to use thermal lift to get the sailplane to altitude before entering the course. ***All aircraft must conform to all AMA/FAI limits including the 5Kg (11.023 pound) weight limit.***

### **General Items:**

- R/C transmitters restricted to Digital Spread Spectrum (2.4 GHz) only.
- Only one active aircraft per team (limited to one sailplane in the air at a time).

### **This is a TEAM Event.**

- A team is comprised of one or more pilots, a chase vehicle driver, and one or more spotter/observer(s).
- Drivers shall obey all state and local laws including the max speed limit for the area. Note that Indiana traffic law does allow **adults** to ride in the rear of a pickup truck so a pickup can be used as a chase vehicle.
- Each vehicle driver shall sign a waiver holding the AMA and the League of Silent Flight harmless, in the event of an accident and/or traffic violation.
- Each pilot shall sign a waiver holding the AMA and the League of Silent Flight harmless. Pilots assume the risk for any personal, public or private property damage.

### **The Cross Country Competition:**

- Mileage begins at the start gate. The start gate is also the turn point for multiple laps. You do not have to land at the conclusion of a lap on the course. Your sailplane must be even with the chase vehicle at the start gate and return point.
- Inbound traffic shall have the right of way through the gate over outbound traffic.
- All aircraft must not to exceed the AMA/FAI weight limit of (5 Kg) 11.023 pounds all-inclusive.
- The team may share the manipulation of the controls during the attempt, except in the case of an LSF task (see below).
- All flights must originate at the designated launch area.
- The observer will note the time and odometer reading on the chase vehicle of the scoring card.

### **League of Silent Flight Task Attempts:**

- Mileage begins and ends at the Start/Finish Gate.
- Inbound traffic shall have the right of way through the gate over outbound traffic.
- All Aircraft must not to exceed the AMA/FAI weight limit of (5 Kg) 11.023 pounds all-inclusive.
- Launches shall be performed by winch only. Winches are restricted to 12 volts maximum electric power, 300 meter ground line length, and must conform to the AMA safety guidelines for electric winches including safety cut-off switch.
- All flights must originate at the designated launch area.
- The observer will note the time and odometer reading on the chase vehicle of the scoring card.
- **An LSF Task is complete only in accordance with LSF rules. The applicant shall be the sole manipulator of the controls during the entire attempt.** Note that for Level V attempts, the attempt must be witnessed by two Level II or above LSF members.

## 2013 LSF AMA Cross Country Rules

1. All flying will be in strict accordance with the AMA Safety Code.
2. All pilots must be current AMA members and registered at the officials table prior to the start of the event.
3. Each team may use any number of sailplanes; however, each must be flown on 2.4 GHz. Please note team members' names on the score cards for each attempt.
4. Onboard telemetry is permissible, but no consideration of frequency usage will be made.
5. There is no restriction on the number of controls or sensors.
6. All ballast must be carried internally, and can not be jettison able, except for water ballast.
7. All sailplanes must bear the AMA number of the primary flyer or owner, or identification within the aircraft.
8. Teams will provide their own launch equipment.
9. Electric winches must be in compliance with the AMA Safety code. Length of landline shall not exceed 300 meters. Teams are encouraged to share equipment.
10. Be a considerate neighbor and prevent winch lines from fouling on the ground by pulling the towline down clear of adjoining winch lanes.
11. Only one chase vehicle per team will be permitted.
12. Distance may be accumulated by flying multiple circuits of the course without landing.
13. Distance traveled-begins when the glider and chase vehicle pass the start/finish gate and stops when either
  - a. The aircraft touches a ground based object prior to completing the current lap
  - or -
  - b. The chase vehicle and the glider both cross the start/finish gate inbound and land.
14. Any number of attempts will be allowed during the official contest hours. Each team's best single flight per day will be scored on a prorated basis in comparison to the team travelling the longest distance that day. Overall standings will be determined by the sum of the scores from each day. Shortest total elapsed time will be used as a tie-breaker.
15. Once on course, chase vehicles must follow the prescribed route, except for possible off course retrievals. The sailplane need not fly directly over the prescribed course.
16. In the event of on course landings (landing out), the distance from the start line point to the point of touchdown, will be recorded in miles and tenths from the chase vehicle odometer and recorded on the score card.
17. If landing out, try to land your model as closely as possible to the road's shoulder. Do not trespass into cash crop fields, rather attempt to ascertain the owner of the field and get permission to enter the property for retrieval of the model. *LSF will not post bail for contestants arrested for trespassing.*
18. If a sailplane is lost or destroyed in flight, the timer shall record the distance of furthest progress.
19. Each team may establish its own relief during the event, except in the case of an LSF Goal and Return attempt.
20. Posted speed limits and traffic control signs must be observed. **BE SAFE, BE SAFE, BE SAFE!!!**
21. Traffic regulations must be observed, and unsafe operation of chase vehicles will be grounds for disqualification.
22. The turnaround point is achieved when the sailplane and chase vehicle pass the marked turn point. Common sense and courtesy must be exercised. Please show the utmost respect for traffic, people, homes and property along the course.
23. The event will begin with a 9:00 AM pilots meeting each day. The flight window will open at the conclusion of the pilots meeting and close at 4:30 PM local time. If you are on course at the close of the flight window your current position determines the distance travelled. All scores must be reported by 5:00 PM (cell phone number will be provided).
24. For electric launch class, any motor run subsequent to entering the course voids the flight (zero score).

**Note: All Contestants are advised to drive and study the course prior to the event.**

Good common sense, Sportsmanship, and Esprit de Corps shall be the guidelines of this event.

Let's have fun.

*AMA & LSF Management Team*