

# FIA OPEN COURSE WORLD LAND SPEED RECORD CALCULATION FORM

**FEDERATION INTERNATIONALE DE L'AUTOMOBILE**  
**OPEN COURSE WORLD LAND SPEED RECORD CALCULATION FORM**

Venue: \_\_\_\_\_

Vehicle Classification: Category: \_\_\_\_\_ Group: \_\_\_\_\_ Class: \_\_\_\_\_

Vehicle Name: \_\_\_\_\_

Driver Name: \_\_\_\_\_

Record Distance: \_\_\_\_\_ ← Enter distance designator - K or M

Start Type: \_\_\_\_\_ ← Enter start type designator - F or S

Attempt Date: Day: \_\_\_\_\_ Month: \_\_\_\_\_ Year: \_\_\_\_\_

Out Run Distance Elapsed Time: \_\_\_\_\_

**OR**

Out Run Distance Start Time: \_\_\_\_\_

Out Run Distance End Time: \_\_\_\_\_

Out Run Elapsed Time/Speed: \_\_\_\_\_

Return Run Distance Elapsed Time: \_\_\_\_\_

**OR**

Return Run Distance Start Time: \_\_\_\_\_

Return Run Distance End Time: \_\_\_\_\_

Return Run Elapsed Time/Speed: \_\_\_\_\_

2 Run Total Elapsed Time: \_\_\_\_\_

**Average Elapsed Time:** \_\_\_\_\_

**Average Speeds:** \_\_\_\_\_

Chief Timekeeper \_\_\_\_\_ Chief Steward \_\_\_\_\_

VS: 5/10/2014 4:16 PM

The following information is presented to aid the user while filling in the *FIA Open Course World Land Speed Record Calculation Form*.

There are two types of “fields” included on the form. Each field is defined by the field background color.

FIELD COLOR	FIELD TYPE	USER ACCESS
	Data entry	Yes
	Calculated value	No

The form has been created in Microsoft Excel. If the form is protected the user will be able to negotiate from field to field using the “Tab” key after making an entry. If the form is not protected it is suggested that the user enables protection. This allows selection of fields (cells) that require user information entry and prevents accessing cells on the form where entry is not desirable.

## QUICK START GUIDE

Please enter timing information as needed in the dark green field cells. If you need additional information return here and read the following pages.

Please supply the following information to enable calculation of new open course world land speed records.

In the first section, enter venue, vehicle, driver and record information:

Venue:

Vehicle Classification:  Category  Group  Class

Vehicle Name:

Driver Name:

Record Distance:   ← Enter distance designator - K or M

Start Type:  ← Enter start type designator - F or S

Attempt Date:  Day  Month  Year

- The information for the Venue, Vehicle Name and Driver Name fields is straightforward and used to identify the venue, vehicle and driver.
- The vehicle classification is determined by entry into the Category, Group and Class fields.

There are currently four vehicle categories. They are defined by the alphabetic characters “A” – “D”. If an invalid character is entered in the Category field the background color will change to “RED”.

Vehicle Classification:  Category  Group  Class

Vehicle Name:

There are currently eighteen different vehicle groups. Sixteen groups in categories A and B defined by roman numerals, one in category C and two in category D. If an invalid (not Roman numeral or alphabetic) group designator is entered in the Group field the background color will change to “RED” (see Category example above).

There are currently twenty different classes. Eleven in category A and D defined by the numbers 1 – 11. Nineteen in category B defined by the numbers 1 – 19. Two in category C defined by “JE” and “RT”. If an invalid class designator is entered in the Class field the background color will change to “RED” (see Category example above).

While a valid entry for the category, group and class fields is checked the validity of the individual entries when the category, group and class are taken into account is not verified. In other words the characters entered into the three fields may be valid for the individual fields but the group designator may be invalid for a given category or the class designator may be invalid for the entered category and group. It is the responsibility of the user to make valid entries into all three fields.

- For the Record Distance field enter .125 (1/8M), .250 (1/4M), .500 (1/2K) or 1 (K or M). Entry of an invalid number value will cause the following message to be displayed:

Valid entries: 0.125, 0.250, 0.500 or 1  0.135  ← Enter distance designator - K or M

Start Type:  ← Enter start type designator - F or S

- Enter either a “K” or “M” distance designator character to indicate a kilometer or mile record. Entry of an incorrect distance designator character will cause the following message to be displayed:

Record Distance:  0.125  L ←Valid entries: K or M

Start Type:  ← Enter start type designator - F or S

- For the Start Type field enter either “F” for flying start or “S” for standing start. Entry of an incorrect start type designator character will cause the following message to be displayed:

Record Distance:    
 Start Type:  ← Valid entries: F or S

- Enter the date the new record was established or an existing record was broken. Enter the day, month and year in the three separate field boxes. The year should be entered using four numeric digits.

Entry of the year using only two digits will produce the wrong year and cause the following message to be displayed:

Attempt Date:    ← Enter year using 4 digits  
 Friday, May 01, 1914

Once the date has been entered it will be displayed in the format selected in the region setting of the user’s computer operating system. As shown above for the US or as Friday, 1 May, 1914 for countries that use that date format.

In the second section, enter the timing information:

Out Run Distance Elapsed Time:	<input type="text"/>	<input type="text"/>	Entry sensor time of day - hh:mm:ss.sss
<b>OR</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Out Run Distance Start Time:	<input type="text"/>	<input type="text"/>	
Out Run Distance End Time:	<input type="text"/>	<input type="text"/>	
Out Run Elapsed Time/Speed:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Return Run Distance Elapsed Time:	<input type="text"/>	<input type="text"/>	Exit sensor time of day - hh:mm:ss.sss
<b>OR</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Return Run Distance Start Time:	<input type="text"/>	<input type="text"/>	
Return Run Distance End Time:	<input type="text"/>	<input type="text"/>	
Return Run Elapsed Time/Speed:	<input type="text"/>	<input type="text"/>	<input type="text"/>
2 Run Total Elapsed Time:	<input type="text"/>		

The top portion of this section is for the first or “Out” run elapsed time information.

- If the timing equipment prints the elapsed time for the record distance, supply the time in minutes and seconds. This form is for short distance records so elapsed times should not equal or exceed sixty minutes requiring an entry for hours.
- Enter the time of day the record distance start sensor was triggered. This time will determine the start of the one hour “turnaround” period. Enter the time in “hh:mm:ss.sss” format. Enter the time for the seconds portion to the highest resolution available but truncated, not rounded, to the nearest 0.001 second if greater precision is available.
- If the timing equipment prints the time of day the sensor at the start and end of the record distance is triggered, enter the record distance start and finish times in the indicated six fields.
- When the elapsed time for both the start and finish times have been entered, the elapsed time for the record distance and the vehicle speed for the “Out” run will be displayed.

The lower portion of this section is for the second or “Return” run elapsed time information.

- If the timing equipment prints the elapsed time for the record distance, supply the time in minutes and seconds. This form is for short distance records so elapsed times should not equal or exceed sixty minutes requiring an entry for hours.

- Enter the time of day the record distance exit sensor was triggered. This time will determine the end of and the elapsed time for the “turnaround” period. Enter the time in “hh:mm:ss.sss” format. Enter the seconds portion to the highest resolution available but truncated, not rounded, to the nearest 0.001 second if greater precision is available.

Once both the sensor trigger times have been entered the elapsed time for the “turnaround” portion will be calculated.

If the two time entries produce a time greater than 1 hour the following message will be displayed:

Out Run Distance Elapsed Time:	Minutes: <input type="text" value="00"/>	Seconds: <input type="text" value="8.014"/>	Entry sensor time of day - hh:mm:ss.sss	<input type="text" value="10:04:52.456"/>	← Turnaround >= 60 minutes
<b>OR</b>	Hours: <input type="text"/>	Minutes: <input type="text"/>	Seconds: <input type="text"/>		
Out Run Distance Start Time:	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Out Run Distance End Time:	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Out Run Elapsed Time/Speed:	<input type="text" value="8.014"/>	<input type="text" value="449.213"/>	<input type="text" value="MPH"/>	<input type="text" value="722.938"/>	<input type="text" value="KM/H"/>
Return Run Distance Elapsed Time:	Minutes: <input type="text" value="00"/>	Seconds: <input type="text" value="8.387"/>	Exit sensor time of day - hh:mm:ss.sss	<input type="text" value="11:04:52.457"/>	← Turnaround >= 60 minutes
<b>OR</b>	Hours: <input type="text"/>	Minutes: <input type="text"/>	Seconds: <input type="text"/>		
Return Run Distance Start Time:	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Return Run Distance End Time:	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Return Run Elapsed Time/Speed:	<input type="text" value="8.387"/>	<input type="text" value="429.235"/>	<input type="text" value="MPH"/>	<input type="text" value="690.786"/>	<input type="text" value="KM/H"/>

If the entry time is greater than the exit time the following message will be displayed:

Out Run Distance Elapsed Time:	Minutes: <input type="text" value="00"/>	Seconds: <input type="text" value="8.014"/>	Entry sensor time of day - hh:mm:ss.sss	<input type="text" value="11:04:52.457"/>	ENTRY time > EXIT time
<b>OR</b>	Hours: <input type="text"/>	Minutes: <input type="text"/>	Seconds: <input type="text"/>		
Out Run Distance Start Time:	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Out Run Distance End Time:	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Out Run Elapsed Time/Speed:	<input type="text" value="8.014"/>	<input type="text" value="449.213"/>	<input type="text" value="MPH"/>	<input type="text" value="722.938"/>	<input type="text" value="KM/H"/>
Return Run Distance Elapsed Time:	Minutes: <input type="text" value="00"/>	Seconds: <input type="text" value="8.387"/>	Exit sensor time of day - hh:mm:ss.sss	<input type="text" value="10:04:52.456"/>	EXIT time < ENTRY time
<b>OR</b>	Hours: <input type="text"/>	Minutes: <input type="text"/>	Seconds: <input type="text"/>		
Return Run Distance Start Time:	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Return Run Distance End Time:	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Return Run Elapsed Time/Speed:	<input type="text" value="8.387"/>	<input type="text" value="429.235"/>	<input type="text" value="MPH"/>	<input type="text" value="690.786"/>	<input type="text" value="KM/H"/>

- If the timing equipment prints the time of day the sensor at the start and end of the record distance is triggered, enter the record distance start and finish times in the indicated six fields.
- When the elapsed time for both the start and finish times have been entered, the elapsed time for the record distance and the vehicle speed for the “Return” run will be displayed.

### Section 3 - Record Calculation:

2 Run Total Elapsed Time:	<input type="text"/>
<b>Average Elapsed Time:</b>	<input type="text"/>
<b>Average Speeds:</b>	<input type="text"/>
	<input type="text"/>
_____	_____
Chief Timekeeper	Chief Steward

Once the timing information for both the “Out” and “Return” runs has been entered:

- The two run total elapsed time will be displayed.
- The Average Elapsed Time for the record distance will be calculated and displayed.
- The Average Speeds in both Kilometers/hour and Miles/hour will be calculated and displayed.

The Chief Timekeeper and Chief Steward must sign the form.

The following samples show completed forms for both types of timing systems.

Sample 1 – Timing system that produces the elapsed time for the record distance:

**OPEN COURSE RECORD FORM**

Venue: **Bonneville Salt Flats**

Vehicle Classification: Category **A** Group **I** Class **10**

Vehicle Name: **Poteet & Main's "Speed Demon"**

Driver Name: **George Poteet**

Record Distance: **1.000** **M**

Start Type: **F**

Attempt Date: Day **17** Month **09** Year **2012**  
**Monday, September 17, 2012**

Out Run Distance Elapsed Time: **OR** Minutes **00** Seconds **8.014** Entry sensor time of day - hh:mm:ss.sss **10:04:56.0**

Out Run Distance Start Time: Hours Minutes Seconds

Out Run Distance End Time: Hours Minutes Seconds

Out Run Elapsed Time/Speed: **8.014** **449.213** **MPH** **722.938** **KMH**

Return Run Distance Elapsed Time: **OR** Minutes **00** Seconds **8.387** Exit sensor time of day - hh:mm:ss.sss **10:49:00.4**

Return Run Distance Start Time: Hours Minutes Seconds

Return Run Distance End Time: Hours Minutes Seconds

Return Run Elapsed Time/Speed: **8.387** **429.235** **MPH** **690.786** **KMH**

2 Run Total Elapsed Time: **16.401**

**Average Elapsed Time:** **8.200**

**Average Speeds:** **439.024** **MPH**  
**706.540** **KM/H**

Chief Timekeeper \_\_\_\_\_ Chief Steward \_\_\_\_\_

Sample 2 – Timing system that prints time of day information when a sensor is triggered:

**OPEN COURSE RECORD FORM**

Venue: **Black Rock Desert**

Vehicle Classification: Category **C** Group **TH** Class **JE**

Vehicle Name: **Thrust SSC**

Driver Name: **Andy Green**

Record Distance: **1.000** **M**

Start Type: **F**

Attempt Date: Day **15** Month **10** Year **1997**  
**Wednesday, October 15, 1997**

Out Run Distance Elapsed Time: **OR** Minutes Seconds Entry sensor time of day - hh:mm:ss.sss

Out Run Distance Start Time: Hours Minutes Seconds **09 09 21.698**

Out Run Distance End Time: Hours Minutes Seconds **09 09 26.439**

Out Run Elapsed Time/Speed: **4.741** **759.333** **MPH** **1222.028** **KMH**

Return Run Distance Elapsed Time: **OR** Minutes Seconds Exit sensor time of day - hh:mm:ss.sss

Return Run Distance Start Time: Hours Minutes Seconds **10 04 8.090**

Return Run Distance End Time: Hours Minutes Seconds **10 04 12.786**

Return Run Elapsed Time/Speed: **4.696** **766.609** **MPH** **1233.737** **KMH**

2 Run Total Elapsed Time: **9.437**

**Average Elapsed Time:** **4.718**

**Average Speeds:** **763.035** **MPH**  
**1227.985** **KM/H**

Chief Timekeeper \_\_\_\_\_ Chief Steward \_\_\_\_\_