

1916  
AUTOMOBILE  
CONTESTS

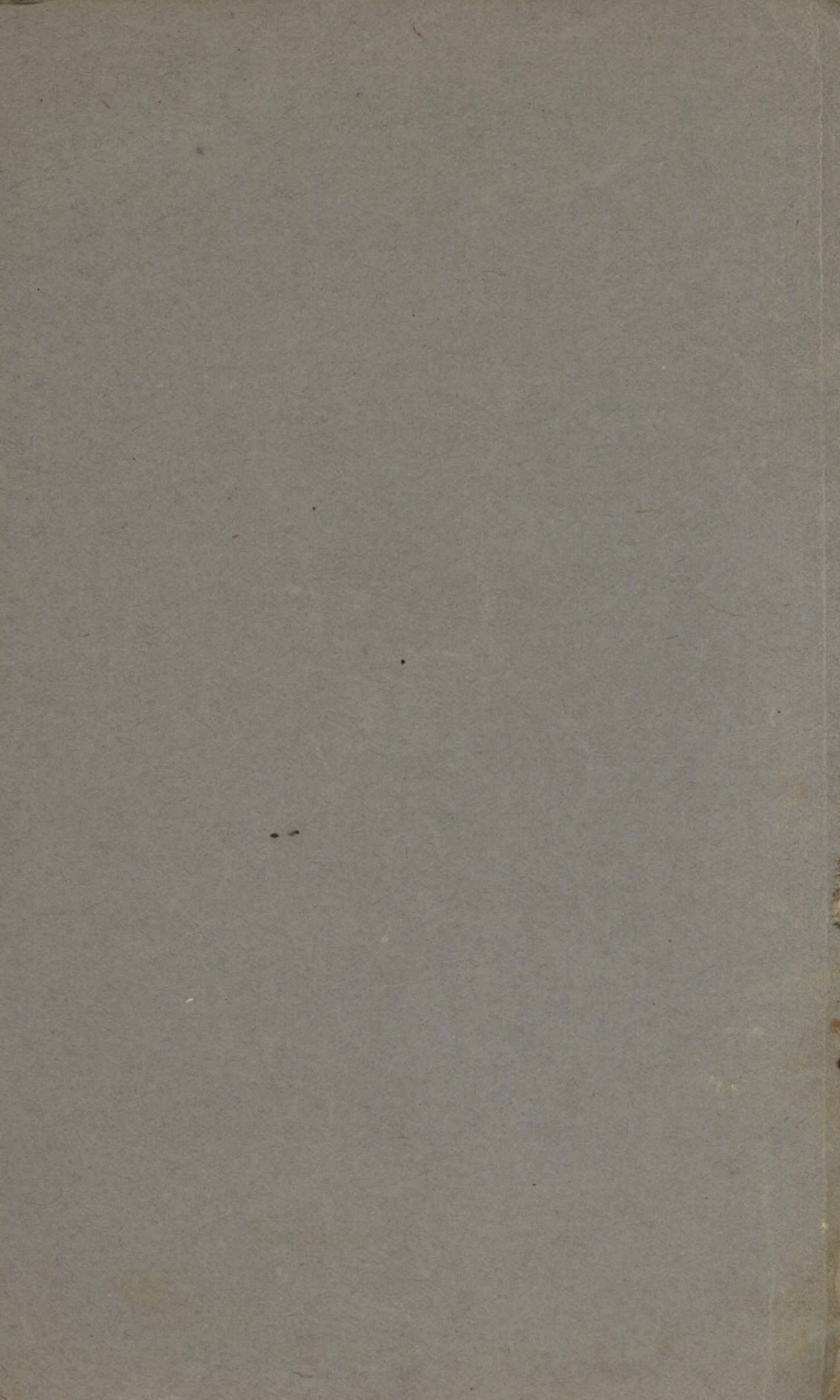
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OF THE  
AMERICAN AUTOMOBILE  
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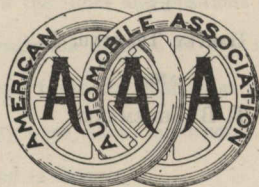
JANUARY 1917





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AUTOMOBILE  
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AMERICAN AUTOMOBILE  
ASSOCIATION

JANUARY 1917

1916  
AUTOMOBILE  
CONTESTS  
OFFICIAL RECORDS  
COMPILED FROM OFFICIAL RECORDS  
ON FILE IN THE OFFICE OF THE  
CONTEST BOARD

BY  
W. HARVEY TRABAND, JR.  
AND  
T. B. SHOEMAKER

ISSUED BY THE CONTEST BOARD  
OF THE  
AMERICAN AUTOMOBILE  
ASSOCIATION

JANUARY 1917

# INTRODUCTION

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**I**N compiling for publication the results of all automobile contests held in 1916 under the Rules and with the Sanction of the American Automobile Association, it is the purpose of the Contest Board to provide an official and authentic summary of the season's events, as shown by the official reports filed with the Board by Referees and Contest Board Representatives in attendance at every Sanctioned meeting.

The results as published are as complete as the official reports and the time and expense of a work of this character will admit. Effort has been made to show the times and positions of each starter at the finish of every event, although the absence of any time does not necessarily indicate that car did not finish the contest, as in a number of events the times of the winners only were taken, but insofar as possible the order in which competitors finished is shown.

Times are expressed in hours, minutes, seconds and hundredths of seconds, as: 1:14:58.43; distances, unless otherwise indicated, are expressed in miles and the times taken in exhibition trials and time trials were made with a flying start, unless indicated to the contrary.

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*Copies of this book may be secured from the Contest Board of the American Automobile Association, 501 Fifth Ave., New York City.*

*The price is 50 cents per copy.*



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OF THE

## American Automobile Association

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# EXTRACTS FROM RULES

## STOCK CAR.

**Stock Car**—A motor car which complies with each and all of the following requirements:

(a) **Certificate of Description**—A description of the car upon the official blank\* provided for the purpose must be filed with the Contest Board prior to the contest.

(b) **Registration Number**—No Certificate of Description of a stock car filed with the Contest Board shall be valid until the maker shall have received notification of its acceptance with the assignment of a registration number by the Contest Board.

(c) **Car on Sale**—The car must be or have been on sale through all the regular selling representatives of the manufacturer during the period of its production.

(d) **Car Must Correspond to Registration**—The cars entered in any contest must absolutely correspond to the detailed description contained in the Certificate of Description; otherwise they shall not be permitted to start in the contest and entry fee paid shall be forfeited to the promoter.

**Stripped Stock Chassis**—"A motor car chassis which except for the options and requirements listed below, can, by adding the necessary parts, be assembled into a complete stock car." (See "Stock Car" definition.)

### Options

(a) **Lighter Springs** (number of leaves optional; thickness, width and length must be standard).

(b) **Angle of Steering Post.**

(c) **Length and Angle of change gear, brake and other control levers** (method of control must be standard).

(d) **Driving gear ratio, wheel diameters** excepted. (Where a gear ratio is changed on a shaft-driven car, any gear ratio may be used of which the standard axle construction will permit.)

(e) **Radiator guards.**

(f) **Driver's screen.**

(g) **Wire wheels** (standard size).

### Requirements

(a) **Remove fenders and running boards.**

(b) **Complete stock starting and lighting equipment.**

(c) **Complete stock gasoline equipment.**

(d) **Complete stock lubrication equipment in all parts.**

(e) **Complete stock cooling system.**

(f) **Complete brake system.**

(g) **No taping or winding on electric connections, etc., water, oil or gasoline piping.**

(h) **Windshield must be removed.**

(i) **Bonnet straps must be carried.**

(j) **Satisfactory body, seating two passengers side by side.**

(k) **Floor boards must be carried and contour of dash standard.**

(l) **Regular exhaust pipe and mufflers carried. Cutouts if stock.**

(m) **Regular lamp equipment except for necessary changes to support the head or tail lamps where same were supported on fenders.**

(n) **Wheels of standard diameter and tires of standard size.**

(o) **No ballast of any nature permitted.**

\*Official blanks for Stock Car Description may be obtained from the Chairman of the Contest Board, 437 Fifth Ave., New York City.

**Eligibility of Stock Chassis**—Limited to models of current and past year.

**4. Bona Fide Status of Stock Car**—It is the intention of the rules relating to stock car competitions that such competitions shall be restricted to those cars identical in specifications and design with the manufacturer's product which is manufactured in quantity and is offered for sale and sold in a bona fide manner to the public through the regular selling agencies of the manufacturer.

**5. Evasion of Stock Car Definition**—In the event of evasion on the part of entrants of the spirit of the "stock car" definition concerning points not definitely stated in these rules, the Contest Board shall have full power to render such decision as it may deem for the welfare of the sport and industry.

**6. Technical Committee of the Contest Board**—It shall be the duty of the Technical Committee of the Contest Board to pass upon, establish and certify to the Contest Board the stock status of all manufacturers' models offered for registration with the Contest Board as stock cars.

In any case where it may be necessary to establish the status of any car alleged to be a stock car under the definition contained in these rules, the Committee shall have the right to visit the factory of the manufacturer of such car, who shall be required to submit to the Committee such evidence as it may require to verify the allegation on which the "stock" status of the car is based.

The decision of the Technical Committee shall be final as regards the eligibility of any car to enter or start in any contest held under the Contest Rules of the A. A. A.

No car which the Technical Committee has ruled as ineligible shall be allowed to start in any contest, under protest or otherwise.

The technical Committee shall also have power to take possession of any competing car either before or after the finish of any contest and make such examination thereof as may be necessary to establish its "stock" status.

**Promoter's Technical Committee**—There shall be for every contest a Technical Committee whose duty it shall be to examine the cars before the contest and report their findings to the referee; they shall also examine the cars after the contest and at any time during the running of the contest that may be necessary.

## RACING CAR

**7. Shall be Known as Special.**—All racing cars shall be designated in the official program and in all advertising as "special."

**Registration**—All racing cars must be registered annually with the Contest Board at its main office in New York, which registration shall expire on December 31st of each year. Registration blanks may be obtained from the Contest Board or from its official representatives and must be filled out and signed by the owner. In event of sale or transfer of a car the Contest Board must be immediately advised. The penalty for false registration shall be disqualification of the owner and car at the discretion of the Contest Board.

Identification plates will be furnished each car registered, which plate must be attached to the dash or cowl of the car. This plate will bear the name under which the car is registered, A. A. A. registry number, date of registry, number of cylinders, cubic inches piston displacement, wheel-base and manufacturer's motor and chassis numbers.

The fee for such registration shall be Two Dollars.



## CLASSIFICATION.

### (Gasoline Motor Cars)

#### Class "A."

##### Price Classification:

Division 1A.....	\$450 and under
Division 2A.....	451 to 800
Division 3A.....	801 to 1200
Division 4A.....	1201 to 1600
Division 5A.....	1601 to 2000
Division 6A.....	2001 to 3000
Division 7A.....	3001 to 4000
Division 8A.....	4001 and over

In determining the price classification of a car, the cost of extra equipment which is a germane part of the car in the contest and which equipment or part is liable to penalization for work done thereon or for defective condition at the final technical examination, shall be used in computing the price of the car for classification.

Reliability, endurance, economy and other touring contests may be run under price classification.

Speed events on the beach, road, hill, speedway or track cannot be held under price classification.

#### Class "B."

Stock Cars.—Piston displacement classification same as Class "C."

#### Class "C."

##### Piston Displacement Classification:

Division	Piston Displacement in Cubic Inches
1 .....	under 71
2 .....	71 to 100
3 .....	101 to 125
4 .....	126 to 160
5 .....	161 to 230
6 .....	231 to 300
7 .....	301 to 450
8 .....	451 to 600
9 .....	601 and over

A car is eligible for a particular division until its total piston displacement is equal to the minimum displacement specified in the next higher division. For example, a car with a total piston displacement of 300.9 is eligible for Div. 6, 231 to 300 cubic inches.

Non-stock events of any character may be run under piston displacement classification.

Reliability, endurance, economy and other touring contests may be run under piston displacement classification.

#### Class "D."

##### Non-Stock—Free-for-All:

Class "D"—Open to any gasoline car which complies with the definition of a "motor car."

#### Class "E."

##### Special Events:

Class "E"—Special events other than those above specified held in



connection with any motor car meet or contest, and approved by the Contest Board.

Class "G"—Open to electric cars only. Subject to the price limitations of Class "A."

Class "K"—Open to commercial vehicles.

### ADVERTISING.

75. Advertising—All advertising matter which any entrant or contestant may publish or cause to be published, referring to any contest in which he may be or may have been entered, must be in strict accordance with the official report of such contest.

(a) Any manufacturer, dealer, agent, driver, owner or entrant who shall, directly or indirectly, advertise, or permit to be advertised, the performance of any car as a stock car performance in any event other than a regularly sanctioned event for stock cars shall be subject to suspension for such time as the Contest Board may direct.

(b) No performance shall be advertised as a "record" until claim for same has been made and officially accepted as a "record" by the Contest Board, as provided in Rule 78.

(c) Any owner, manufacturer, dealer, agent, or driver taking part in or directly connected with any contest otherwise than under these rules, and obtaining extensive advertisement therefrom, shall be deemed to be guilty of a breach of these rules.

(d) Any owner, manufacturer, dealer, agent, or driver who is not entered in or officially connected with a contest, but uses the name of such contest for private purposes and publishes statements tending to mislead or misrepresent the facts, shall be subject to suspension for such time as the Contest Board may direct.

(e) A car or chassis manufactured, registered, entered or competing in any contest by and under the name of one company, cannot have its performance featured in publicity as the performance of the product of or under the name of any other company.

(f) No car shall be entered in any event under the trade name of any manufacturer or under any name indicating that such car is the product of said factory or manufacturer if, in the judgment of the technical committee, such car shall not be the bona fide product of such manufacturer or factory.

(g) All racing cars must be referred to in all publicity and advertising as "specials."

(h) Any violation of the above rules or publication of statements tending to mislead or misrepresent the facts shall render the manufacturer, agent, entrant, contestant, or any or all of them, subject to suspension for such time as the Contest Board may direct.

### RECORDS.

78 Records—The Contest Board shall pass upon all records and may decline to accept any claim which, in its opinion, would not promote the interests of the sport.

No claim for a record of one mile or under and up to and including five miles will be considered by the Contest Board unless the same is taken by an automatic electrical or mechanical timing device approved by the Board, and the evidence taken by such timing device is submitted to the Board, together with the claim for the record.

No claim for record will be considered unless the sworn statements of the Referee and Chief Timer as to the time and distance are presented to the Contest Board.

No claim for record will be considered unless there is on file with the Contest Board a Surveyor's Certificate of the length or distance of the track or course, with evidence that the same is level.

Track or speedway and circular beach courses to be measured three feet from the inside pole or rail. Straightaway, hill-climbing and road race courses to be measured at the center of the road.

The Contest Board shall retain all proof and other documents produced in respect of claims for records and shall deal with such proofs and documents as it sees fit.

The Contest Board shall keep a Register of Records.

Records shall be separated into Division One, Competitive Records; Division Two, Non-Competitive Records.

Records made on specially constructed speedways shall be known as "speedway records."

Records made in class competition on speedway, track or road shall be known as "class records" and if advertised must state the class.

Records made in free for all competition or in events open to more than one division of Classes "B" or "C," are "Records Regardless of Class."

No record will be allowed as a "Class Record" unless same is made in an event restricted to any one of the divisions of Classes "B" or "C."

Records made in individual trials against time are Non-Competitive records.

No record made on a circular dirt track less than one mile in length will be allowed.

79. Intermediate Distances—In any attempt to lower a record for a given distance, records can only be taken in regular rotation from the starting line.

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## RULES FOR RELIABILITY, ENDURANCE, ECONOMY AND OTHER TOURING CONTESTS

Reliability, Endurance, Economy and other touring contests may be conducted in any of the following Grades:

### GRADE I.

(For Stock Cars or for Non-Stock Cars.)

A touring contest embracing preliminary examination, final operative tests of motor, clutch, gearset and brakes, and rigid technical examination at end of run, with penalties for damaged or inoperative parts; for lateness in arrival at controls and for repairs or replacements made during the contest.

### GRADE II.

(For Stock Cars or for Non-Stock Cars.)

A simpler form of contest in which penalties are imposed for lateness in arrival at controls and for repairs or replacements made during the contest, but in which preliminary examination, final operative tests and final technical examination prescribed by Rules 435 and 509 to 516 are omitted.



### GRADE III.

(For Non-Stock Cars Only.)

A more simple form of contest in which penalties are imposed only for lateness in arrival at controls and in which no recognition is taken of work done on cars during the test, and in which observers are not required.

### GRADE IV.

(For Non-Stock Cars Only.)

**Inter-Club Contests**—A form of reliability or economy contest in which one club opposes one or more other clubs, the cars representing each club composing that club's team and the team is declared the winner and not the individual.

### GRADE V.

(For Stock or Non-Stock Cars.)

**Economy Contests**—The determining factor in evolving a winner in economy contests is the consumption of fuel. The weight of the car and the passengers may or may not be taken into consideration. Economy contests may be held in conjunction with reliability contests under any of the grades above designated.

### CLASSIFICATION OF CARS.

400A. Reliability, Endurance, Economy and other touring contests may be held under Price Classification or Piston Displacement Classification. (See Classes "A" and "C.")

Touring cars, runabouts and other body-equipped cars may compete together in the same class and for the same prizes without reference to body equipment or passenger-carrying capacity.



## A. A. A. 1916 Championship Award

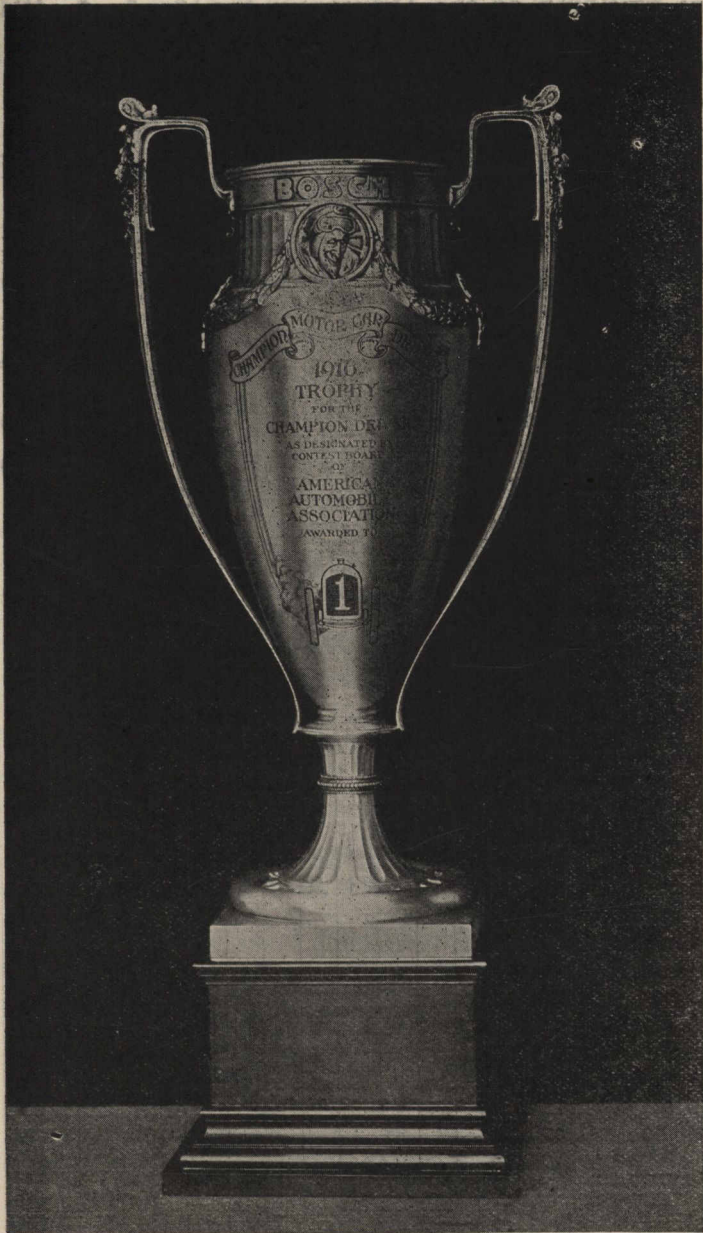
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**E**ARLY in March, Chairman Kennerdell announced that the Contest Board would inaugurate a yearly official Championship Award, determined by a system of points to be fought for in events open and accessible to a majority of the leading drivers. Thus, as sanctions were issued for the more important events through the season they were given a "championship" designation and a schedule of points was evolved whereby the length of race, character and number of entries, purses and the general nature of the event all had a bearing.

To the honor thus assured the driver with the most meritorious performance was later added a trophy and \$2,000 in cash by the Bosch Magneto Company and \$5,000 in cash by the B. F. Goodrich Company.

And in addition the drivers ranking second and third in the final standing were awarded further cash prizes—\$1,000 and \$500 respectively by Bosch and \$3,000 and \$2,000 by Goodrich.

The Championship was not determined until the final race of the season, and the appended box score, which shows the standing after each of the fifteen championship events and the final standings, is of interest. (See page 18.)



BOSCH



INTERNATIONAL MOTOR CAR

1916  
TROPHY  
FOR THE  
CHAMPION DRIVER  
AS DESIGNATED BY  
CONTEST BOARD

AMERICAN  
AUTOMOBILE  
ASSOCIATION

AWARDED TO

1





# SPEEDWAY RACES.

Sanction No. 894

## ASCOT ONE MILE SPEEDWAY, LOS ANGELES, CAL., March 5th, 1916

*One Mile Asphaltum Speedway*

Promoter, ASCOT SPEEDWAY ASSOCIATION

Referee, FRANK A. GARBUTT

A. A. A. Representative, AL G. WADDELL

Starter, GEO. M. ADAIR

Chief Timer, E. H. PENDLETON

Chief Scorer, W. PENDLETON

Class	Distance	CAR	DRIVER	Time	M.P.H.
Time Trials	1	Christie Sp.....	Oldfield .....	:47.0	
		Peugeot Sp.....	Burman .....	:51.2	
		Sunbeam Sp.....	Hughes (excused)		
D	100	Mercer Sp.....	Pullen .....	1:30:42.0	66.15
		Peugeot Sp.....	Burman .....	1:32:43.0	
		Stutz Sp.....	Cooper .....	1:32:44.1	
		Mercer Sp.....	Lewis .....	1:33:21.4	
		Duesenberg Sp....	O'Donell .....	1:33:51.0	
		Milac Sp.....	Tetzlaff (flagged)		
		Sunbeam Sp.....	Hughes (flagged)		
		Gordon Sp.....	Elliott (flagged)		
		Stutz Sp.....	Parsons (flagged)		
		Cyclone Sp.....	Hill (out 61st lap, broken steering)		
		Marmon Sp.....	Taylor (out 27th lap, engine)		
		Tahis Sp.....	Shockley (out 26th lap, gas line)		
		Apperson Sp.....	Price (out 23d lap, bearing)		
Romano Sp.....	Lentz (out 6th lap, gas line)				
Omar Sp.....	Toft (did not start)				

Sanction No. 898

## ASCOT ONE MILE SPEEDWAY, LOS ANGELES, CAL., March 16th, 1916

*One Mile Asphaltum Speedway*

Promoter, ASCOT SPEEDWAY ASSOCIATION

Referee, J. S. CONWELL

A. A. A. Representative, AL G. WADDELL

Starter, FRANK LOWRY

Chief Timer, E. H. PENDLETON

Class	Distance	CAR	DRIVER	Time	M.P.H.
Invitation Ventura Trophy Race	50	Duesenberg Sp.....	O'Donell .....	43:05.0	69.63
		Peugeot Sp.....	Burman .....	43:13.0	
		Mercer Sp.....	Pullen .....	44:04.4	
		Cyclone Sp.....	Hill (flagged)		
		Chevrolet Sp.....	Durant (out 30th lap, broken unv.)		

Class	Distance	CAR	DRIVER	Time	M.P.H.
Time Trials	1	Christie Sp.....	Oldfield .....	45.0	
		Peugeot Sp.....	Burman .....	58.2	(flying start) (standing start)
C 161-230	10	Milac Sp.....	Tetzlaff .....	9:44.8*	
		Ford Sp.....	Mahoney .....		
		Chevrolet Sp.....	Durant .....		
		Oakland Sp.....	Lloyd .....		
		Kirkwood Sp.....	Ralston .....		
		Ford Sp.....	Armitage .....		
		Cadillac Sp.....	Heacox .....		
		Studebaker Sp.....	Lechliden .....		
		Studebaker Sp.....	Collons .....		
		Chevrolet Sp.....	Dochterman .....		
		Ford Sp.....	Puissegur .....		
Ford Sp.....	Womack .....				
Pursuit	9 $\frac{3}{4}$	Milac Sp.....	Tetzlaff .....	9:41.0	
		Gordon Sp.....	Elliott .....		
		Stutz Sp.....	Parsons .....		
		Romano Sp.....	Lentz .....		

\* Timing instrument broke; impossible get other times.

Sanction No. 906

## ASCOT ONE MILE SPEEDWAY, LOS ANGELES, CAL., April 16th, 1916

*One Mile Asphaltum Speedway*

Promqter, ASCOT SPEEDWAY ASSOCIATION

Referee, J. S. CONWELL

A. A. A. Representative, AL G. WADDELL

Starter, FRANK LOWRY

Chief Timer, E. H. PENDLETON

Chief Scorer, ROBT. McGRANGER

Class	Distance	CAR	DRIVER	Time	M.P.H.
D	150	Duesenberg Sp.	O'Donell .....	2:17:09	65.62
		Mercer Sp.....	Pullen .....	2:17:27.8	
		Omar Sp.....	Hughes .....	2:18:24.2	
		Gandy Sp.....	E. S. Waterman (fld. 135th lap)		
		Tahis Sp.....	E. M. Teel (flagged 125th lap)		
		Grant Sp.....	Stutzman (flagged 120th lap)		
		Mercer Sp.....	Joe Thomas (out 46th lap, brkn. cyl.)		
		Gandy Sp.....	Gandy (out 22d lap, brkn. oil li.)		
		Oakland Sp....	Bert Lloyd (did not start)		
		Durant Sp.....	Tetzlaff (did not start)		
Durant Sp.....	Durant (did not start)				



# SHEEPSHEAD BAY SPEEDWAY, NEW YORK, May 13th, 1916

## Two Mile Board Speedway

Promoter, SHEEPSHEAD SPEEDWAY CORPORATION (EVERARD THOMPSON, General Manager)

Referee, JEFFERSON DE MONT THOMPSON

A. A. A. Representatives, F. A. CROSELMIRE, C. G. SINGABAUGH

Starter, F. J. WAGNER; Assistant, W. C. POERTNER

Director of Timing, H. H. KNEPPER (Warner Instrument)

Director of Scoring, STANLEY KANDUL

Technical Committee, F. E. EDWARDS, Chairman; H. A. TARANTOUS

Chief Surgeon, DR. P. I. NASH

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301 Coney Island Cup	20	Peugeot Sp.....	Aitken .....	11:15.79	106.54
		Sunbeam Sp....	Christiaens .....	11:26.52	
		Delage Sp.....	Limberg .....	11:27.06	
		Maxwell Sp....	Rickenbacher .....	11:27.60	
		Maxwell Sp....	Henderson .....	11:54.91	
		Delage Sp.....	Devigne .....	11:56.17	
		Duesenberg Sp.	Devlin .....	11:59.72	
		Peusun Sp.....	Franchi .....	12:15.05	
		Crawford Sp....	Lewis .....	12:36.03	
		Hudson Sp.....	Vail (flagged 10th lap)		
		Peugeot Sp.....	Mulford (out 9th lap)		
		Adams Sp.....	Adams (out 6th lap)		
Crawford Sp....	Chandler (out 2nd lap)				
E under 301 Queens Cup	50	Peugeot Sp.....	Mulford .....	28:45.05	104.34
		Duesenberg Sp.	Devlin .....	30:15.97	
		Peusun Sp.....	Franchi .....	30:16.26	
		Delage Sp.....	Limberg .....	31:35.28	
		Delage Sp.....	Devigne .....	32:33.80	
			(23 laps)		
		Peugeot Sp.....	Aitken (out 22nd lap)		
Maxwell Sp....	Henderson (out 20th lap)				
Maxwell Sp....	Rickenbacher (out 8th lap)				
Hudson Sp.....	Vail (out 7th lap)				
E under 301 Metropolitan Trophy	150	Maxwell Sp....	Rickenbacher .....	1:33:31.43	96.23
		Delage Sp.....	Devigne .....	1:35:11.09	
		Hudson Sp....	Vail .....	1:38:44.69	
		Duesenberg Sp.	Devlin .....	1:43:03.86	
		Adams Sp.....	Adams .....	1:53:06.20	
			(74 laps)		
		J. J. R. Sp.....	Watson .....	1:54:01.00	
	(72 laps)				
Peugeot Sp....	Resta (out 59th lap, crkd. cyl.)				
Peusun Sp.....	Franchi (out 27th lap, con. rod)				
Delage Sp.....	Limberg (out 15th lap, wrecked)				
Peugeot Sp....	Mulford (out 10th lap, pist. hd.)				



**SPEEDWAY PARK, CHICAGO, May 20th, 1916**

Two Mile Board Speedway

Promoter, SPEEDWAY PARK ASSOCIATION (DAVID F. REID,  
President)

Referee, HARRY VISSERING

Starter, THOMAS J. HAY

Director of Timing and Scoring, PAUL CARPENTER

Chairman Technical Committee, DAN S. HATCH

A. A. A. Representative, W. C. BARNES and CLIFFORD IRELAND

Class	Distance	CAR	DRIVER	Time
E, for club members owning and driving own cars; in 3 heats	20	Mercer Sp.....	Wm. Leet.....	14:49
		Mercer Sp.....	W. M. Robbins.....	14:50.2
		Cadillac Sp.....	F. P. Book.....	15:51.2
		Mercer Sp.....	F. C. Sawyer.....	16:38.4
		Locomobile Sp.....	Harold Scott.....	18:24.0*
	20	Mercer Sp.....	R. R. Duff.....	14:58.2
		Cadillac Sp.....	Frank Warren.....	15:24.2
		Stutz Sp.....	A. A. Clemens.....	16:43.4
		National Sp.....	A. C. Ortmeier.....	29:56.6†
		Mercer Sp.....	C. H. Robbins (out end 9th lap, burned bearing)	

**May 21st, 1916**

Class	Distance	CAR	DRIVER	Time
(Final Heat)	30	Mercer Sp.....	Wm. Leet.....	20:44.6
		Cadillac Sp.....	Frank Warren.....	21:48.8
		Mercer Sp.....	W. M. Robbins.....	22:15.4
		Cadillac Sp.....	F. P. Book.....	23:04
		Mercer Sp.....	F. C. Sawyer.....	23:14.4
		Mercer Sp.....	R. R. Duff (out 11th lap, broken oil line)	
		National Sp.....	A. C. Ortmeier (out 5th lap, cyl. head)	
		Stutz Sp.....	A. A. Clemens (did not appear)	
E, Dealers' Race	50	Mercer Sp.....	Al Schillo.....	34:35.2
		Cadillac Sp.....	Frank De Constant....	36:20.8
		Mercer Sp.....	A. B. Bromstedt.....	36:40.2
		Mercer Sp.....	E. W. Schillo.....	38:00.6
		Cadillac Sp.....	O. H. Yarnell.....	38:27.4
		Haynes Sp.....	P. J. Ford.....	41:51.4
		Cadillac Sp.....	B. Leidecker.....	41:52

\* Eliminated for final.

† Delayed at pits.

# INDIANAPOLIS MOTOR SPEEDWAY, INDIANAPOLIS, IND., May 30th, 1916

*Two and One-half Mile Vitrified Brick Speedway*

Promoter, INDIANAPOLIS MOTOR SPEEDWAY (T. E. MYERS  
General Manager)

Referee, HOWARD MARMON

A. A. Representatives, F. A. CROSELMIRE, W. C. BARNES

Starter, GEORGE DICKSON; Assistant, H. B. HEWITT

Director of Timing and Scoring, CHESTER S. RICKER (Warner  
Instrument)

Technical Committee, F. E. EDWARDS, Chairman; DARWIN S.  
HATCH

Chief Surgeon, DR. FRANK R. ALLYN

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301 (120 laps)	30	Peugeot Sp.....	Resta .....	3:34:17.51	84.00
		Duesenberg Sp.	D'Alene .....	3:36:15.38	
		Peugeot Sp.....	Mulford .....	3:37:56.20	
		Sunbeam Sp....	Christiaens ....	3:46:36.04	
		Delage Sp.....	Oldfield .....	3:47:19.63	
		Maxwell Sp.. }	Henderson		
			Rickenbacher..	3:49:56.89	
		Premier Sp.....	Wilcox .....	3:54:33.31	
		Crawford Sp...	Johnson .....	4:01:54.75	
		Crawford Sp...	Chandler .....	4:02:43.39	
		Ostewig Sp....	Haibe .....	4:03:10.52	
		Ogren Sp.....	Alley .....	4:04:47.11	
		<i>Eliminated During Race.</i>			
Frontenac Sp. }	J. Boyer				
	L. Chevrolet (83rd lap, brd. brg.)				
Premier Sp.....	Anderson (75th lap, brkn. oil li.)				
Crawford Sp...	Lewis (70th lap, loose gas line)				
Peugeot Sp.....	Aitken (69th lap, brkn. valve)				
Delage Sp.....	LeCain (62nd lap, wrecked)				
Premier Sp.....	Rooney (48th lap, wrecked)				
Frontenac Sp...	A. Chevrolet (35th lap, eng. tr.)				
Peugeot Sp.....	Merz (25th lap, brkn. valve)				
Maxwell Sp....	Rickenbacher (10th lap, brkn. con. rod)				
Peusun Sp.....	Franchi (9th lap, leaking man'd)				
<i>Did Not Start.</i>					
Deussenberg Sp..	O'Donell				
Frontenac Sp...	L. Chevrolet				
RiChard Sp.....	Delno (overweight)				
Delage Sp.....					



# DES MOINES AUTO SPEEDWAY, DES MOINES, IOWA, May 30th, 1916

*One Mile Board Speedway*

Promoter, DES MOINES SPEEDWAY COMPANY (SAMUEL  
ORLOFF, Secretary)

Referee, W. W. SEARS

A. A. A. Representative, G. DECKER FRENCH

Starter, LE ROY DUNN

Class	Distance	CAR	DRIVER	Time	M.P.H.
E Limited to cars owned by residents of Iowa	20	Clergy Sp.....	Barndollar	16:38.8	72.09
		Ford Sp.....	Thompson	17:44.6	
		Clergy Sp.....	Duke	18:45.0	
		Chevrolet Sp.....	Shafer (flagged 12th lap)		
		National Sp.....	Stanley (out 11th lap)		
		Van Sp.....	Autill (out 1st lap)		
		National Sp.....	Jordan (did not start)		
E Limited to cars owned by residents of Des Moines	10	Clergy Sp.....	Clergy	8:27.2	70.76
		Ford Sp.....	Thompson	9:19.4	
		Clergy Sp.....	Duke	10:21.8	
		Chevrolet Sp.....	Shafer (out 3d lap)		
		Van Sp.....	Autill (did not start)		

# TWIN CITY MOTOR SPEEDWAY, FORT SNELLING, MINN., May 30th, 1916

*Two Mile Concrete Speedway*

Promoter, TWIN CITY MOTOR SPEEDWAY CO. (R. J. YOUNG,  
General Manager)

Referee, H. J. CLARK

A. A. A. Representative, C. E. DUTTON

Starter, A. C. BENNETT

Chief Timer, A. E. PAEGEL

Technical Committee, S. C. SHIPLEY, M. R. BASS, A. R. GREER

Class	Distance	CAR	DRIVER	Time	M.P.H.
C 161-230	10	Ford Sp.....	C. W. Jewett	9:33.0	
		Buick Sp.....	Clyde Mohr	9:41.8	
		Ford Sp.....	H. G. Allyn	10:03.6	
		Ford Sp.....	A. S. Halls	14:12.6	
		Carnation Sp...	A. M. Choat		
C 231-300	20	Mercer Sp.....	C. J. Gilbert	17:56.0	
		Velie Sp.....	A. J. De Fea	18:50.4	
		Corbin Sp.....	H. G. Allyn	23:32.2	
		Duesenberg Sp.	M. Sorenson (out in 5th lap)		



Class	Distance	CAR	DRIVER	Time	M.P.H.
D	50	Duesenberg Sp.	Sorenson	40:56.0	73.29
		Mercer Sp.	Gilbert	41:32.6	
		Marq-Buick Sp.	Emil Iverson	41:40.4	
		Ford Sp.	Halls	43:07.2	
		Buick Sp.	Lee Oldfield	45:10.0	
				(19 laps)	
		Ford Sp.	Jewett	49:41.6	
		Stutz Sp.	Wm. A. Butters	(flag'd 21st lap)	
		Velie Sp.	De Fea	(out 21st lap)	
		Buick Sp.	Mohr	(out 20th lap)	
		Mercedes Sp.	R. Buchanan	(out 19th lap)	
		Carnation Sp.	Choat	(out 15th lap)	
		National Sp.	Jesse Becker	(out 10th lap)	
		Reading Sp.	Cliff Doliber	(out 9th lap)	
		Duesenberg Sp.	Lee Broker	(out 8th lap)	
		Peerless Sp.	J. J. McCoy	(out 5th lap)	
		Royal Sp.	G. W. McClure	(out 5th lap)	
Pope Bullet Sp.	C. Hanson	(out 4th lap)			
Buick Sp.	J. W. Schelen	(out 3d lap)			
Corbin Sp.	Allyn				

### June 11th, 1916 (Postponed from May 30th)

E Twin City Trophy Open to racing cars owned in Twin Cities 30 days prior to race	10	Marq-Buick Sp.	Iverson	8:27.0
		Pope-Bullet Sp.	Hanson	8:27.2
		Royal Sp.	Nello Blair	(1 lap behind)
		Royal Sp.	McClure	(out 2nd lap)
		Duesenberg Sp.	Broker	(did not get started)

Handicap	10	Duesenberg Sp.	Sorenson	(1st)
		Ford Sp.	Jewett	(2nd)
		Mercer Sp.	Gilbert	(3rd)
		Stutz Sp.	Butters	(4th)

Sanction No. 933

## ASCOT ONE MILE SPEEDWAY, LOS ANGELES, CAL, May 30th, 1916

*One Mile Asphaltum Speedway*

Promoter, ACTORS FUND OF AMERICA COMMITTEE (CLARENCE BENNETT)

Referee, CHARLES MURRAY

A. A. A. Representative, AL G. WADDELL

Starter, W. E. LAWRENCE

Timers, E. H. PENDLETON, PHIL HANNA, DEAN PIFIELD,  
CHAS. BRANNAMAN

Scorers, VINCENT McDERMOT, J. J. O'CONNOR, LeROY SPENCER

Class	Distance	CAR	DRIVER	Time
Exhibition	1	Stutz Sp.	Frank B. Good	:53

Class	Distance	CAR	DRIVER	Time	M.P.H.
E Amateurs	10	Mercer Sp.....	Arthur Hansen.....	10:06	
		Premier Sp.....	Ashton Deachalt .....	10:28	
		Mercer Sp.....	Wallace Berry (out 7th lap, tire trouble)		

Sanction No. 911

## TACOMA AUTOMOBILE SPEEDWAY, TACOMA, WASH., June 4th, 1916

*Two Mile (Approx.) Board Speedway*

Promoter, TACOMA SPEEDWAY ASSOCIATION (GEO. D. DUNN, Secretary)

Referee, FRANK ALLYN

A. A. A. Representative, F. M. FRETWELL

Starter, F. E. JEFFRIES; Assistant, ALLEN FISHER

Chief Timer, GUY E. KELLY

Technical Committee, C. J. CARR, W. C. BALDWIN

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301 (10 laps)	19.398	Tacoma Sp.....	Aubry .....	13:55	83.63
		Stutz Sp.....	Parsons .....	15:39	
		Ford Sp.....	P. Erdman ....	18:29	
E under 601 (15 laps)	29.098	Tacoma Sp.....	Aubry .....	21:48	80.09
		Stutz Sp.....	Parsons .....	23:05.6	
		Ford Sp.....	P. Erdman ....	24:20	

Sanction No. 901

## SPEEDWAY PARK, CHICAGO, JUNE 11th, 1916

*Two Mile Board Speedway*

Promoter, SPEEDWAY PARK ASSOCIATION (DAVID F. REID, President)

Referee, CLIFFORD IRELAND

Chairman Contest Board, R. KENNERDELL

A. A. A. Representative, W. C. BARNES

Starter, FRED J. WAGNER; Assistant, THOMAS J. HAY

Director of Timing, C. H. WARNER (Warner Instrument) and H. H. KNEPPER

Director of Scoring, STANLEY KANDUL

Technical Committee, F. E. EDWARDS, Chairman

Chief Surgeon, DR. JAY F. PITTS

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301 (150 laps)	300	Peugeot Sp.....	Resta .....	3:02:31.64	98.62
		Mercedes Sp....	De Palma .....	3:04:25.37	



Class	Distance	CAR	DRIVER	Time	M.P.H.
Sunbeam Sp....		Christiaens	.....	3:07:15.48	
Duesenberg Sp..		O'Donell	.....	3:08:40.36	
Sunbeam Sp....		Galvin	.....	3:10:23.45	
Hudson Sp....		Vail	.....	3:10:30.65	
Duesenberg Sp..		D'Alene	.....	3:13:02.85	
Burman Sp....		Gable	.....	3:15:51.31	
Hudson Sp....		McCarthy	.....	3:19:10.75	
Crawford Sp....		Lewis	.....	3:24:58.07	
Duesenberg Sp..		Buzane	.....	3:32:04.10	
Crawford Sp....		Johnson	(flagged 145th lap)		
Ogren Sp.....		Henning	(flagged 123rd lap)		

*Eliminated During Race.*

J. J. R. Sp....		Watson	(90th lap, brkn. con. rd.)		
Kline Sp.....		Kline	(78th lap)		
Olson Sp.....		Thompson	(77th lap, brkn. con. rod)		
Ostewig Sp....		Haibe	(72nd lap, broken valve)		
Peugeot Sp....		Rickenbacher	(61st lp., brkn. vl.)		
West Duluth Sp.		Rawlings	(47th lp., brkn. con. rd.)		
Delage Sp.....		Oldfield	(9th lap, brkn. trans.)		
Kline Sp.....		Alley	(5th lap, disq., oil smok'g)		

Sanction No. 943

**SPEEDWAY PARK, CHICAGO, ILL., June 18th, 1916**

*Two Mile Board Speedway*

Promoter, SPEEDWAY PARK ASSOCIATION (DAVID F. REID, President)

Referee, FRANK R. WARREN

A. A. A. Representative, W. C. BARNES

Starter, THOMAS J. HAY

Chief Timer, LOUIS S. COLE

Chief Scorer, L. A. HILLMAN

Technical Committee, H. W. MERSHECK, DR. R. R. DUFF, E. A. TURNER

Class	Distance	CAR	DRIVER	Time	M.P.H.
Match	50	Peugeot Sp.....	Resta	.....31:57.4*	93.88
		Mercedes Sp.....	De Palma	.....32:18.0	
Match	24	Peugeot Sp.....	Resta	.....13:42.6	105.03
		Mercedes Sp.....	De Palma	.....13:45.8	



Class	Distance	CAR	DRIVER	Time	M.P.H.
Match	10	Peugeot Sp.....	Resta .....	5:51.2*	102.51
		Mercedes Sp.....	De Palma....	5:51.6	

\* Allowed as Official Records.

Sanction No. 919

## DES MOINES AUTO SPEEDWAY, DES MOINES, IOWA, June 24th, 1916

One Mile Board Speedway

Promoter, DES MOINES SPEEDWAY COMPANY (SAMUEL  
ORLOFF, Secretary)

Referee, W. W. SEARS

A. A. A. Representatives, G. DECKER FRENCH and W. C. BARNES

Starter, F. J. WAGNER; Assistant, LE ROY DUNN

Chief Timer, R. A. LEAVELL (Warner Instrument)

Chairman Technical Committee, C. FRED CLAIBORNE

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	150	Mercedes Sp....	De Palma .....	1:36:36.23	93.16
		Maxwell Sp....	Henderson .....	1:38:13.72	
		Maxwell Sp....	Rickenbacher ..	1:39:18.72	
		Crawford Sp....	Lewis .....	1:40:00.01	
		Stutz Sp.....	Cooper .....	1:40:08.96	
		Super-Six Sp...	Mulford .....	1:45:27.15	
		Sunbeam Sp....	Galvin .....	1:46:44.40	
		Crawford Sp....	Chandler (flagged 141st lap)		
		Duesenberg Sp..	O'Donell (broken con. rod)		
		Duesenberg Sp..	D'Alene (wrecked)		
		Duesenberg Sp..	Milton (wrecked)		
		Devlin Sp.....	Hughes (broken con. rod)		
		E under 301	50	Maxwell Sp...	
Mercedes Sp...	De Palma .....			32:07.73	
Stutz Sp.....	Cooper .....			32:32.29	
Sunbeam Sp....	Galvin .....			33:21.52	
Duesenberg Sp..	O'Donell .....			33:30.56	
Crawford Sp....	Lewis .....			33:30.78	
Super-Six Sp...	Mulford .....			33:35.58	
Maxwell Sp....	Henderson .....			33:56.74	
Burman Sp....	Gable .....			34:09.01	
Ogren Sp.....	Henning .....			34:52.68	
Hudson Sp.....	Vail				

## DES MOINES AUTO SPEEDWAY, DES MOINES, IOWA, June 26th, 1916

*One Mile Board Speedway*

Promoter, DES MOINES SPEEDWAY CO., SAMUEL ORLOFF,

Secretary

Referee, W. W. SEARS

A. A. A. Representatives, W. C. BARNES, G. DECKER FRENCH

Starter, F. J. WAGNER; Assistant, LE ROY DUNN

Chief Timer, R. A. LEAVELL (Warner Instrument)

Chairman Technical Committee, FRED C. CLAIBORNE

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	50	Crawford Sp.....	Lewis .....	34:08.59	87.85
		Sunbeam Sp.....	Galvin .....	34:13.87	
		Super-Six Sp.....	Mulford .....	34:47.94	
		Hudson Sp.....	Vail (flagged)		
		Devlin Sp.....	Hughes (out, brkn. con. rod)		
E under 301	20	Sunbeam Sp.....	Galvin .....	13:02.46	92.07
		Crawford Sp.....	Lewis .....	13:02.82	
		Super-Six Sp.....	Mulford .....	13:03.01	
		Hudson Sp.....	Vail (flagged)		
E under 301	10	Sunbeam Sp.....	Galvin .....	6:20.25	94.67
		Crawford Sp.....	Lewis .....	6:20.55	
		Super-Six Sp.....	Mulford .....	6:29.93	
		Hudson Sp.....	Vail (flagged)		
E under 301	5	Crawford Sp.....	Lewis .....	3:12.20	93.65
		Super-Six Sp.....	Mulford .....	3:14.89	
		Hudson Sp.....	Vail .....	4:42.32	
		Sunbeam Sp.....	Galvin (flagged)		

Sanction No. 917

## TACOMA AUTOMOBILE SPEEDWAY, TACOMA, WASH., July 4th, 1916

*Two Mile (Approx.) Board Speedway*

Promoter, TACOMA SPEEDWAY ASSOCIATION (GEO. D. DUNN,

Secretary)

Referee, FRANK ALLYN

A. A. A. Representative, F. M. FRETWELL

Starter, F. E. JEFFRIES

Chief Timer, GUY E. KELLY

Technical Committee, C. J. CARR, W. C. BALDWIN

Class	Distance	CAR	DRIVER	Time
Exhibition	10	Tacoma Sp.....	Aubrey .....	No time taken



## TWIN CITY MOTOR SPEEDWAY, FORT SNELLING, MINN., July 4th, 1916

### Two Mile Concrete Speedway

Promoter, TWIN CITY MOTOR SPEEDWAY CO., R. J. YOUNG,  
General Manager

Referee, H. J. CLARK

A. A. A. Representative, W. C. BARNES

Starter, A. C. BENNETT

Timers, CHESTER S. RICKER, Chief; WM. PORTER (Warner  
Instrument)

Technical Committee, E. A. TURNER, Chairman; D. S. HATCH, H. C.  
BUFFINGTON, W. C. CLARK, E. B. PERRINS, LIN BROWN  
Chief Surgeon, DR. JOHN W. MINTENER

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	150	Mercedes Sp...	De Palma	1:38:49.24	91.07
		Peugeot Sp....	Aitken	1:40:14.07	
		Sunbeam Sp....	Christaens	1:43:28.77	
		Duesenberg Sp..	Milton	1:44:11.96	
		Hoskins Sp....	O'Donell	1:47:37.96	
		Duesenberg Sp..	Sorenson	1:56:14.46	
		Dans L'Argent..	Muller	2:01:18.22	
		Sunbeam Sp....	Galvin (flagged)		
		Maxwell Sp....	Henderson (flagged)		
		Premier Sp....	Anderson (flagged)		
		McCoy Sp.....	McCoy (flagged)		
		Frontenac Sp...	L. Chevrolet (out 123rd, mot. tr.)		
		Maxwell Sp....	Rickenbacher (out 58th lap, mo- tor trouble)		
		Ostewig Sp....	Ostewig (out 20th lap, br. piston)		
		Duesenberg Sp..	Buzane		

Sanction No. 954

## SHEEPSHEAD BAY SPEEDWAY, NEW YORK, July 4th, 1916

### Two Mile Board Speedway

Promoter, SHEEPSHEAD BAY SPEEDWAY CORPORATION

Referee and A. A. A. Representative, H. A. TARANTOUS

Starter, H. A. TARANTOUS

Class	Distance	CAR	DRIVER	Time
Match Race	10	Adams Sp.....	Adams (flagged)	
		Sunbeam Sp.....	Theobald (on fire 1st lap)	



# SIoux CITY MOTOR SPEEDWAY, UNION COUNTY, S. D., July 8th, 1916

## Two Mile Dirt Speedway

Promoter, E. R. SCHULTZ

Referee and A. A. A. Representative, G. DECKER FRENCH

Starter, F. J. WAGNER

Timers, R. A. LEAVELL, CARL JONES (Warner Instrument)

Scorers, GEO. THORPE, J. A. FAIR

Technical Committee, E. TITUS

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	10	Duesenberg Sp.	D'Alene	7:31.96	79.65
		Peugeot Sp.	Merz	7:41.34	
		Crawford Sp.	Lewis	8:00.90	
		Premier Sp.	Wilcox	8:10.80	
		Peusun Sp.	Franchi	8:16.05	
		Burman Sp.	Gable	8:17.38	
		Crawford Sp.	Johnson	8:28.07	
		Delage Sp.	Devigne	8:46.32	
		Crawford Sp.	Chandler	8:49.62	
		W. Duluth Sp.	Rawlings	9:00.60	
		E under 301	20	Premier Sp.	
Duesenberg Sp.	D'Alene			15:59.43	
Crawford Sp.	Lewis			16:00.36	
Peugeot Sp.	Merz			16:18.43	
Peusun Sp.	Franchi			16:25.25	
Crawford Sp.	Chandler			16:42.41	
Crawford Sp.	Johnson			16:44.41	
Delage Sp.	Devigne			16:50.41	
W. Duluth Sp.	Rawlings			17:28.20	
Kleinart Sp.	Klein			17:54.95	
Mercer Sp.	Stringer			21:50.83	
Burman Sp.	Gable				
E under 451	50	Premier Sp.	Wilcox	40:00.00	75.00
		Crawford Sp.	Lewis	40:41.31	
		Crawford Sp.	Johnson	41:35.25	
		Duesenberg Sp.	D'Alene	42:45.37	
		Crawford Sp.	Chandler	42:46.35	
		Peugeot Sp.	Merz	43:02.86	
		Peusun Sp.	Franchi	43:35.73	
		W. Duluth Sp.	Rawlings	45:09.02	
		Hudson Sp.	Vail	46:09.29	
		Delage Sp.	Moore	52:00.36	
		Burman Sp.	Jones (did not finish)		
		Delage Sp.	Devigne (did not finish)		
		Kleinart Sp.	Klein (did not finish)		
		Burman Sp.	Gable (did not finish)		
Duesenberg Sp.	Devlin (did not finish)				
Mercer Sp.	Stringer (did not finish)				

# KANSAS CITY MOTOR SPEEDWAY, KANSAS CITY, MO., July 22nd, 1916

*One and One-eighth Mile Dirt Speedway*

Promoter, KANSAS CITY SPEEDWAY & EXPOSITION CO.,  
(FRANK C. LOTT, Secretary)

Referee, W. G. WHITCOMB

A. A. A. Representative, W. P. M. STEVENS

Starter, FRED J. WAGNER; Assistant, FRANK J. DEAN

Chief Timer, R. A. LEAVELL (Warner Instrument)

Scorers, GEORGE W. CURTISS, A. WOLLNER

Technical Committee, WM. SCHREIBER, Chairman; FRED WYMAN,  
H. G. SCHRIMP

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	99 (88 laps)	Mercedes Sp.....	De Palma...	1:42:54.00	57.73
		Hoskins Sp.....	O'Donell ....	1:45:56.21	
		Duesenberg Sp....	Buzane .....	1:49:42.44	
		Kleinart Sp.....	Klein .....	1:53:01.45	
		Crawford Sp.....	Johnson ....	1:54:56.04	
		Ogren Sp.....	Burt (out 82d lap)		
		DuChesneau Sp....	Brown (out 62d lap)		
		Crawford Sp.....	Lewis (out 54th lap)		
		Maxwell Sp.....	Henderson (out 53d lap)		
		Crawford Sp.....	Chandler (out 34th lap)		
		Maxwell Sp.....	Rickenbacher (out 32d lap)		
		Duesenberg Sp....	Devlin (out 4th lap)		
E under 451	24 $\frac{3}{4}$ (22 laps)	DuChesneau Sp....	Brown .....	20:56.88	70.89
				(15 laps) *	
		Crawford Sp.....	Johnson .....	19:04.41	
				(14th lap)	
		Hoskins Sp.....	O'Donell (out 13th lap)		
		Maxwell Sp.....	Rickenbacher (out 7th lap)		
Duesenberg Sp....	Buzane (out 2d lap)				
Kleinart Sp.....	Klein (out 1st lap)				

\* Referee stopped race and awarded 1st and 2nd prizes.

# OMAHA AUTO SPEEDWAY, OMAHA, NEBRASKA, July 15th, 1916

*One and One-fourth Mile Board Speedway*

Promoter, THE AUTO SPEEDWAY CO. (F. J. McSHANE, JR.,  
Director of Contests)  
Referee, T. F. KENNEDY  
A. A. A. Representatives, W. D. HOSFORD and W. C. BARNES  
Starter, F. J. WAGNER  
Chief Timer, R. A. LEAVELL (Warner Timing Instrument)  
Technical Committee, MESSRS. CORNELL and GIBBS

Class	Distance	CAR	DRIVER	Time	M.P.H.	
E under 301 (120 laps)	150	Peugeot Sp....	Resta .....	1:30:43.88	99.19	
		Peugeot Sp....	Mulford .....	1:31:56.24		
		Duesenberg Sp..	Milton .....	1:32:32.75		
		Maxwell Sp....	Henderson .....	1:40:06.27		
		Mercer Sp.....	Stringer (5th)			
		Kleinart Sp....	Klein (flagged 106th lap)			
		<i>Eliminated During Race</i>				
		Dans L'Argent	Muller (108th, withdrew)			
		Mercedes Sp....	De Palma (87th, brkn. valve sp.)			
		Delage Sp.....	Hughes (79th, burned bearings)			
		Hudson Sp.....	Vail (78th, no extra tires)			
		Maxwell Sp....	Rickenbacher (76th, sp'rk plugs)			
		Crawford Sp...	Johnson (73rd, ignition)			
		Crawford Sp...	Chandler (68th, brkn. valve sp.)			
Peusen Sp.....	Franchi (63rd, wrecked)					
Duesenberg Sp..	D'Alene (30th, magneto)					
Crawford Sp...	Lewis (6th, broken valve)					
Burman Sp.....	Gable (wrecked)					
E under 301 (40 laps)	50	Mercedes Sp...	De Palma .....	29:02.47	103.30	
		Maxwell Sp....	Rickenbacher .....	30:01.65		
		Maxwell Sp....	Henderson .....	30:07.16		
		Crawford Sp...	Lewis .....	31:37.10		
		Mercer Sp.....	Stringer .....	32:51.40		
		W. Duluth Sp..	Rawlings (flagged)			
		Duesenberg Sp..	Milton (flagged)			
Super-Six Sp...	Mulford (24th lap, burned brgs.)					

Sanction No. 963

# SHEEPSHEAD BAY SPEEDWAY, NEW YORK, July 29th, 1916

*Two Mile Board Speedway*

Promoter, SHEEPSHEAD BAY SPEEDWAY CORPORATION  
(Active Service Auxiliary National Guard, N. Y.)  
Referee, EVERARD THOMPSON

Class	Distance	CAR	DRIVER	Time
Exhibition	10	Adams Sp.....	Adams.....	No time taken
		Darracq Sp.....	Sartori.....	



Class	Distance	CAR	DRIVER	Time	M.P.H.
Exhibition	4	Blitzen Benz Sp....	Franchi.....	No time taken	

Sanction No. 926

## TACOMA AUTOMOBILE SPEEDWAY, TACOMA, WASH., August 5th, 1916

Two Mile (Approx.) Board Speedway

Promoter, TACOMA SPEEDWAY ASSOCIATION (GEO. D. DUNN, Secretary)

Referee, FRANK ALLYN

A. A. A. Representative, F. M. FRETWELL

Starter, F. J. WAGNER

Timers, R. A. LEAVELL, Chief; G. E. KELLY, R. P. FRIDLUND,

A. W. OLSEN, CLAUDE V. HOPE

Scorers, PROF. C. F. BENDEL, PAUL WILSON

Technical Committee, C. J. CARR, A. G. FISHER

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	290.97	Maxwell Sp...	Rickenbacher	3:21:40	86.57
	(150 laps)	Duesenberg Sp.	Milton	3:23:05	
Montamarathon		Crawford Sp...	Lewis	3:24:29	
Trophy		Mercedes Sp...	De Palma	3:27:20	
		Maxwell Sp...	Henderson	3:33:03	
		Omar Sp.....	Toft	3:33:25	
		Crawford Sp...	Chandler (flagged 149th lap)		
		Gandy Sp.....	S. L. Price (flagged 148th lap)		
		Duesenberg Sp..	M. Sorenson (flagged 146th lap)		
		Delage Sp.....	Oldfield (out 140th, br. cr. shaft)		
		Dodge Sp.....	C. W. Latta (out 98th lap, slipp. clutch)		
		Crawford Sp...	Art Johnson (out 70th lap, brkn. valve)		
		Duesenberg Sp.	D'Alene (out 64th lap, unv. joint)		
		Gandy Sp.....	M. J. Moosie (out 52nd lap, burned bearings)		

Sanction No. 935

## SPEEDWAY PARK, CHICAGO, ILL., August 17th, 1916

Two Mile Board Speedway

Promoter, SPEEDWAY PARK ASSOCIATION (DAVID F. REID, President)

Referee, CLIFFORD IRELAND

A. A. A. Representative, W. C. BARNES

Starter, F. J. WAGNER

Chief Timer, R. A. LEAVELL (Warner Instrument)

Chairman Technical Committee, F. E. EDWARDS

Class	Distance	CAR	DRIVER	Time
Record Trial	1 hr.	Mercedes Sp.....	DePalma	32:11.65 for 56 miles (stuck valve)

**SPEEDWAY PARK, CHICAGO, ILL., Aug. 19th, 1916***Two Mile Board Speedway*

Promoter, SPEEDWAY PARK ASSOCIATION (DAVID F. REID,  
President)

Referee, THOMAS J. HAY

A. A. A. Representative, W. C. BARNES

Starter, F. J. WAGNER

Chief Timer, LOUIS S. COLE (Warner Instrument)

Chief Scorer, L. A. HILLMAN

Technical Committee, C. W. STIGER, Chairman; E. A. TURNER,  
WEBB JAY, CHAS. RAYFIELD

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301 Heat No. 1	20	Peugeot Sp.....	Resta .....	11:42.61*	
		Sunbeam Sp.....	Galvin .....	11:46.15	
		Duesenberg Sp.....	D'Alene .....	12:10.38	
		Hoskins Sp.....	Lewis .....	15:28.70	
		Duesenberg Sp.....	Buzane (flagged 9th lap)		
		Sunbeam Sp.....	Christiaens (out 6th lap)		
		Duesenberg Sp.....	Milton (out 6th lap)		
		Mercedes Sp.....	De Palma (out 3d lap)		
Heat No. 2		Sunbeam Sp.....	Galvin .....	11:37.59	103.15
		Hoskins Sp.....	Lewis .....	11:37.72	
		Duesenberg Sp.....	D'Alene .....	12:20.12	
		Sunbeam Sp.....	Christiaens (out 7th lap)		
		Duesenberg Sp.....	Milton (out 6th lap)		
Heat No. 3		Hoskins Sp.....	Lewis .....	12:07.30	
		Duesenberg Sp.....	D'Alene .....	12:13.79	
		Duesenberg Sp.....	Buzane .....	14:49.17	
		Sunbeam Sp.....	Christiaens (flagged 8th lap)		
		Duesenberg Sp.....	Milton (flagged 6th lap)		
Heat No. 4		Duesenberg Sp.....	Buzane .....	12:27.68	
		Duesenberg Sp.....	D'Alene .....	12:42.07	
		Sunbeam Sp.....	Christiaens (out 7th lap)		
		Duesenberg Sp.....	Milton (out 7th lap)		
Heat No. 5		Duesenberg Sp.....	D'Alene (walkover)		
		Sunbeam Sp.....	Christiaens (withdrawn)		
		Duesenberg Sp.....	Milton (withdrawn)		
Final Heat	50	Peugeot Sp.....	Resta .....	29:52.49	100.42
		Hoskins Sp.....	Lewis .....	29:56.77	
		Duesenberg Sp.....	Buzane .....	30:46.37	
		Sunbeam Sp.....	Galvin .....	31:27.88	
		Duesenberg Sp.....	D'Alene .....	32:03.40	

\* Winner of each heat qualified for final.



# CINCINNATI MOTOR SPEEDWAY, CINCINNATI, OHIO, Sept. 4th, 1916

## Two Mile Board Speedway

Promoter, CINCINNATI SPEEDWAY CO. (H. L. LEYMAN, V. P.)

Referee, CHARLES L. HARRISON

A. A. A. Representative, W. C. BARNES

Starter, F. J. WAGNER

Timers, H. H. KNEPPER, R. A. LEAVELL (Warner Instrument)

Chairman Technical Committee, F. E. EDWARDS

Chief Surgeon, DR. C. L. BONAFIELD

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	300	Peugeot Sp....	Aitken .....	3:05:27.23	97.06
		Duesenberg Sp..	D'Alene .....	3:09:56.27	
		Sunbeam Sp...	Galvin .....	3:17:16.86	
		Duesenberg Sp.	Buzane .....	3:23:19.89	
		Crawford Sp...	Klein .....	3:34:15.06	
		DuesenbergSp.	} Devlin Johnson .....	3:46:06.54	
		Kleinart Sp...			

### Eliminated During Race

Peugeot Sp.... Resta (144th, radiator)  
 West Duluth Sp. Rawlings (132nd, stuck valve)  
 Hudson Sp.... Vail (126th, broken rod)  
 Hoskins Sp.... Alley (115th, broken rod)  
 Maxwell Sp.... Rickenbacher (108th, eng. tr.)  
 Crawford Sp... Chandler (98th lap, broken rod)  
 Dans L'Argent.. Muller (97th, burned bearing)  
 Stutz Sp..... Anderson (84th, wrecked)  
 Premier Sp.... Lewis (81st, brkn. water con.)  
 Maxwell Sp.... Henderson (71st, engine trouble)  
 Delage Sp..... Franchi (69th, stuck valve)  
 Omar Sp..... Toft (69th, stuck valve)  
 Peugeot Sp.... Mulford (49th, broken valve)  
 Premier Sp.... Wilcox (47th, broken oil pump)  
 Peugeot Sp.... Merz (42nd, burned bearing)  
 Crawford Sp... Moore (32nd, broken rod)  
 Delage Sp..... LeCain (26th, burned bearing)  
 Frontenac Sp... L. Chevrolet (20th, br. rock arm)  
 Duesenberg Sp. Milton (16th, broken pump con.)  
 Sunbeam Sp... Christiaens (15th, clutch)  
 Mercedes Sp.... De Palma (11th, broken rod)



**INDIANAPOLIS MOTOR SPEEDWAY, Sept. 9th, 1916***Two and One-half Mile Vitrified Brick Speedway*

Promoter, INDIANAPOLIS MOTOR SPEEDWAY CO. (T. E. MYERS,  
General Manager)

Referee, HOWARD MARMON

A. A. A. Representative, W. C. BARNES

Starter, CHAS. W. SEDWICK; Assistant, W. S. GILBREATH

Chief Timer, CHESTER S. RICKER (Warner Instrument)

Technical Committee, CHESTER S. RICKER, GEO. A. WEIDELY

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	20	Peugeot Sp.....	Aitken .....	12:37.35	95.07
		Premier Sp.....	Wilcox .....	12:37.68	
		Sunbeam Sp.....	L. Chevrolet... 13:12.88		
		Hoskins Sp.....	Hughes .....	13:36.90	
		Premier Sp.....	Lewis .....	14:03.85	
		Peugeot Sp.....	De Palma.... 14:04.62		
		Duesenberg Sp....	Buzane .....	14:11.34	
		Ostewig Sp.....	McNay .....	15:52.18	
E under 301	50	Peugeot Sp.....	Aitken .....	32:40.33	91.82
		Hoskins Sp.....	Hughes .....	32:40.61	
		Sunbeam Sp.....	L. Chevrolet... 32:41.10		
		Duesenberg Sp....	D'Alene .....	33:25.85	
		Premier Sp.....	Lewis .....	34:05.46	
		Premier Sp.....	Wilcox .....	35:24.89	
		Duesenberg Sp....	Buzane .....	35:32.87	
		Ostewig Sp.....	McNay (flagged)		
		Peugeot Sp.....	De Palma (out 8th lap)		
		Maxwell Sp.....	Henderson (out 2d lap)		
Duesenberg Sp....	Johnson (out 1st lap)				
E under 301	100	Peugeot Sp.....	Aitken .....	1:07:05.04	89.44
		Hoskins Sp.....	Hughes .....	1:07:24.96	
		Duesenberg Sp....	D'Alene .....	1:07:43.73	
		Duesenberg Sp....	Buzane .....	1:08:37.66	
		Premier Sp.....	Lewis .....	1:09:07.30	
		Omar Sp.....	Toft .....	1:12:40.80	
		Maxwell Sp.....	Henderson... 1:12:43.45		
		Peugeot Sp.....	De Palma... 1:13:12.62		
		Ostewig Sp.....	McNay (flagged)		
		Maxwell Sp.....	Rickenbacher (wrecked lap)		
Duesenberg Sp....	Milton (valve trouble)				
Premier Sp.....	Wilcox (left course)				

Sanction No. 971

## SPEEDWAY PARK, CHICAGO, ILL., Sept. 10th, 1916

*Two Mile Board Speedway*

Promoter, SPEEDWAY PARK ASSOCIATION (DAVID F. REID,  
President)

Referee and A. A. A. Representative, C. L. RAYFIELD

Starter, DR. R. ROBINSON DUFF

Chief Timer, LOUIS S. COLE

Chief Scorer, L. A. HILLMAN

Technical Committee, WALLACE B. BLOOD, Chief; M. H. KARNES

Class	Distance	CAR	DRIVER	Time	M.P.H.
Open to Ford Specials	20	No. 1.....	Paul D. Harvey....	10:06.8	62.78
		No. 24.....	Emil Laznasky....	19:12.4	
		No. 3.....	V. W. Jury.....	19:41.4	
		No. 17.....	H. A. Wolf.....	20:44.2	
Open to Ford Specials	30	No. 37.....	B. F. Davis.....	29:47.6	60.42
		No. 2.....	Verne Abbot .....	29:53.4	
		No. 4.....	P. F. Walter.....	32:46.0	
		No. 25.....	Clarence Shurburne.	34:25.2	
Open to Ford Specials	50	No. 1.....	Paul D. Harvey....	48:10.0	62.28
		No. 24.....	Emil Laznasky....	49:08.4	
		No. 6.....	Henry Mueller .....	52:35.4	
		No. 41.....	Peter F. Cardell...	52:45.6	

Sanction No. 979

## SHEEPSHEAD BAY SPEEDWAY, NEW YORK, Sept. 30th, 1916

*Two Mile Board Speedway*

Promoter, UNITED SERVICE ASSOCIATION

Referee, JEFFERSON DE MONT THOMPSON

A. A. A. Representative, FRANK G. WEBB

Starter, F. J. WAGNER

Chief Timer, H. H. KNEPPER (Warner Instrument)

Chief Scorer, J. E. DEMAR

Technical Committee, H. A. TARANTOUS, Chairman; A. L. Mc-  
MURTRY, J. E. SCHIPPER

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301 Astor Cup	250	Peugeot Sp.....	Aitken .....	2:23:04.03	104.83
		Maxwell Sp....	Rickenbacher..	2:24:19.54	
		Hudson Sp.....	Vail .....	2:34:01.00	
		Delage Sp.....	LeCain .....	2:34:42.21	
		Mercer Sp.....	Pullen .....	2:37:26.00	
		Crawford Sp...	Klein .....	2:38:01.00	
		Delage Sp.....	Devigne .....	2:38:31.00	
		Duesenberg Sp..	Mulford .....	2:42:02.38	
		Hoskins Sp....	Hughes .....	2:42:56.15	
		Duesenberg Sp..	Milton .....	2:45:36.90	
		Pugh Sp.....	Meyer .....	2:47:11.65	
		Adams Sp.....	Adams .....	2:55:06.07	
		Crawford Sp...	D'Alene .....	3:04:01.90	
		Ogren Sp.....	Burt .....	3:06:20.52	



*Eliminated During Race*

Maxwell Sp.... Henderson (105th lap, brkn. con. rod)  
 Mercer Sp..... Ruckstell (61st, wrecked)  
 Sunbeam Sp.... Christaens (51st, brkn. con. rod)  
 Peugeot Sp.... Resta (50th, brkn. valve)  
 Premier Sp.... Galvin (brkn. con. rod)  
 Duesenberg Sp.. Buzane (brkn. wrist pin)  
 Peugeot Sp.... Wilcox (brkn. con. rod)  
 Crawford Sp... Moore (brkn. con. rod)  
 Premier Sp.... Lewis (brkn. con. rod)  
 Dans L'Argent.. Muller (brkn. con. rod)  
 Ogren Sp..... Henning (leaky manifold)  
 Omar Sp..... Toft  
 Duesenberg Sp.. Devlin.  
 Olsen Sp..... Watson  
 Erbes Sp..... Gable  
 W. Duluth Sp... Rawlings  
 Sunbeam Sp.... L. Chevrolet  
 Olsen Sp..... McBride (brkn. con. rod)

Sanction No. 977

**SPEEDWAY PARK, CHICAGO, ILL., Oct. 14th, 1916**

*Two Mile Board Speedway*

Promoter, SPEEDWAY PARK ASSOCIATION (DAVID F. REID,  
 President)

Referee, C. G. SINSABAUGH

A. A. A. Representative, W. C. BARNES

Starter, F. J. WAGNER

Chief Timer, LOUIS S. COLE

Chief Scorer, L. A. HILLMAN

Technical Committee, E. A. TURNER, Chairman; WEBB JAY,  
 HAROLD MERSBACH

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	250	Peugeot Sp....	Resta	2:24:16.68	103.99
		Peugeot Sp....	Aitken	2:24:32.61	
		Maxwell Sp....	Rickenbacher	2:25:52.76	
		Premier Sp....	Lewis	2:32:28.93	
		Maxwell Sp....	Henderson	2:32:31.39	
		Premier Sp....	Galvin	2:33:20.50	
		Duesenberg Sp..	Devore	2:45:35.43	
		Ogren Sp.....	Burt	2:49:25.90	
		Erbes Sp.....	Gable	3:04:52.23	
		Hudson Sp....	Vail	3:05:37.37	
		W. Duluth Sp...	Rawlings		
			Haibe (flagged 124th lap)		

*Eliminated During Race*

Duesenberg Sp.. Buzane (flagged)  
 Ostewig Sp.... Ostewig (out slipping clutch)  
 Peugeot Sp.... Wilcox (broken con. rod)  
 Peugeot Sp.... De Palma (broken valve)  
 Crawford Sp.... D'Alene (broken shaft)  
 Crawford Sp.... Klein (broken crank shaft)  
 Duesenberg Sp.. Milton (clutch lining gone)  
 Hoskins Sp.... Hughes (broken con. rod)



# SHEEPSHEAD BAY SPEEDWAY, NEW YORK, Oct. 28th, 1916

## One Mile Board Speedway

Promoter, SHEEPSHEAD BAY SPEEDWAY CO. (EVERARD

THOMPSON, General Manager)

Referee, JEFFERSON DE MONT THOMPSON

A. A. A. Representative, FRANK WEBB

Starter, F. J. WAGNER; Assistant, C. G. SINSABAUGH

Timers, H. H. KNEPPER, Chief; R. A. LEAVELL, CHAS. J. DIEGES,  
PROSPER CLUST, Assistants (Warner Instrument)

Scorers, J. E. DEMAR, Chief; LEW STEFFINS, G. J. WEEKES;

W. C. POERTNER

Technical Committee, H. A. TARANTOUS, Chairman; F. E. EDWARDS,  
A. L. McMURTRY

Class	Distance	CAR	DRIVER	Time	M.P.H.			
E under 301 Harkness Trophy	100	Peugeot Sp.....	Aitken .....	56:37.65	105.96			
		Premier Sp.....	Galvin .....	56:45.35				
		Peugeot Sp.....	Wilcox .....	57:10.53				
		Maxwell Sp....	Henderson .....	59:04.70				
		Duesenberg Sp..	Devore .....	59:05.47				
		Benedict Sp....	Benedict .....	59:23.88				
		Hoskins Sp....	Hughes .....	61:47.10				
		Duesenberg Sp..	Devlin (finished)					
		Delage Sp.....	Devigne (finished)					
		Duesenberg Sp..	Milton (49 laps)					
		Adams Sp.....	Adams (48 laps)					
		Crawford Sp...	Muller (47 laps)					
		<i>Eliminated during race</i>						
		Peugeot Sp.....	Resta (out 33rd lap, brkn. shaft)					
Crawford Sp...	Klein (31st, clogged carb.)							
Premier Sp.....	Lewis (27th, carb. trouble)							
Maxwell Sp....	Rickenbacher (22nd, brkn. pist.)							
Delage Sp.....	LeCain (20th, valve trouble)							
Hudson Sp.....	Vail (10th, burned hearing)							
Duesenberg Sp..	Buzane (9th)							
Weightman Sp..	Gish (3rd)							
Pugh Sp.....	Meyer (3rd, valve cap)							
Non-winners	50	Delage Sp.....	Devigne .....	28:49.59	104.07			
		Duesenberg Sp..	Milton .....	30:15.08				
		Pugh Sp.....	Meyer .....	30:16.36				
		Duesenberg Sp..	Devlin .....	30:17.11				
		Hoskins Sp....	Hughes .....	30:31.40				
		Crawford Sp...	Muller .....	30:32.40				
		Crawford Sp...	Klein .....	31:09.65				
		Duesenberg Sp..	Buzane (24 laps)					
		Adams Sp.....	Adams (23 laps)					
Hudson Sp.....	Vail (20 laps)							
Premier Sp.....	Lewis (5th lap, brkn. valve)							

## ASCOT ONE MILE SPEEDWAY, LOS ANGELES, CAL., Nov. 30th, 1916

### One Mile Asphaltum Speedway

Promoter, ASCOT SPEEDWAY ASSOCIATION

Referee, FRANK CHANCE

Starter, GEORGE ADAIR

Chief Timer, E. H. PENDLETON

A. A. A. Representative, AL. G. WADDELL

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	150	Duesenberg Sp....	Rickenbacher	.2:13:15.20	67.55
		Stutz Sp.....	Cooper	.....2:14:29.80	
		Mercer Sp.....	Pullen	.....2:15:03.00	
		Mercer Sp.....	Ruckstell (flagged 145th lap)		
		Duesenberg Sp....	Moosie (flagged 140th lap)		
		Hudson Sp.....	Vail (flagged 136th lap)		
		Omar Sp.....	Toft (flagged 133rd lap)		
		Gandy Sp.....	Price (flagged 128th lap)		
		Duesenberg Sp....	Buzane (out 47th lap trans.)		
		Duesenberg Sp....	Weightman (out 45th lap trans.)		
Perry Sp.....	Perry (out 21st lap magneto)				
Mercer Sp.....	Taylor (out 19th lap engine)				

## UNIONTOWN SPEEDWAY, UNIONTOWN, PENN., Dec. 2nd, 1916

### One and One-Eighth Mile Board Speedway

Promoter, UNIONTOWN SPEEDWAY ASSOCIATION (C. W. JOHNSON, President)

Referee and A. A. A. Representative, F. H. ROSBORO

Starter, JOHN D. AITKEN; Assistant, JNO. L. CADWALADER

Timers, A. M. CRICHTON, Chief; WALLACE MILLER, T. E. ZINN

Scorers, E. E. PORTER, Chief; E. S. ARRFORD, J. W. NICHOLS

Technical Committee, W. R. STRICKLAND, Chief; JOHN C.

DONOHUE, JOS. CRONICK, BERT ABEL

Manager of Event, NEIL WHALEN

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301	112.5 (100 laps)	Frontenac Sp..	L. Chevrolet	....1:14:12.2	90.97
		Premier Sp....	Dave Lewis	.....1:16:36.2	

Class	Distance	CAR	DRIVER	Time	M.P.H.
		Mercedes Sp....	De Palma	1:17:56.4	
		Crawford Sp...	Newgard	1:25:00.0	
		Olsen Sp.....	McBride	1:25:18.0	
		Pugh Sp.....	Meyer (running 95th lap)		
		Ogren Sp.....	Mason (running 92nd lap)		
		Ogren Sp.....	Henning (running 87th lap)		
		Olsen Sp.....	Watson (running 81st lap)		
		Premier Sp....	Galvin (wrecked 77th lap)		
		J. J. R. Sp....	John De Palma (out 74th lap)		
		Hoskins Sp....	Hughes (wrecked 64th lap)		
		Crawford Sp...	Klein (out 19th lap)		
D Dealers	54 (48 laps)	Peerless Sp....	I. P. Fetterman	40:18.0	80.39
		Murray Sp....	Fred McCarthy	40:19.0	
		Haynes Sp.....	H. L. Robinson (runn'g 46th lap)		
		Pathfinder Sp...	A. Hughson (out 31st lap)		
		Haynes Sp.....	J. E. Conway (on fire 30th lap)		

Sanction No. 1005

## ASCOT ONE MILE SPEEDWAY, LOS ANGELES, CAL., December 25th, 1916

### One Mile Asphaltum Speedway

Promoter, ASCOT SPEEDWAY ASSOCIATION

Referee, BERT DINGLEY

Starter, GEORGE ADAIR

Chief Timer, E. H. PENDLETON

Chief Scorer, ROBT. GRANGER

A. A. A. Representative, AL. G. WADDELL

Class	Distance	CAR	DRIVER	Time
Ford Cars	10	No. 5.....	Dance Wiley	10:24.0
		No. 6.....	Harry C. Hooker	11:03.0
		No. 7.....	L. S. Luard (third)	
		No. 1.....	W. H. Welch (flagged 9th)	
		No. 9.....	Alton Soules (flagged 8th lap)	
		No. 12.....	Ralph Johnson (flagged 8th)	
		No. 10.....	Lee Burritt (flagged 8th)	
		No. 8.....	Chas. Perry (flagged 7th)	
		No. 4.....	Geo. Herberger (burned 6th)	
		No. 2.....	F. W. Frame (out 4th lap)	
		No. 11.....	N. C. Carroll (unable start)	



Class	Distance	CAR	DRIVER	Time	M.P.H.
Pursuit	21	Mercer Sp.....	Beery .....	19:23.0	
		Duesenberg Sp.....	Griffith (passed 21st lap)		
		Oakland Sp.....	Pezel (passed 5th lap)		
		Kissel Sp.....	Anderson (passed 3rd lap)		
Invitation	50	Stutz Sp.....	Cooper .....	44:40	
		Mercer Sp.....	Pullen .....	44:41	
		Omar Sp.....	D'Alene (out 2nd lap)		

# ROAD RACES.

Sanction No. 909

## FRESNO, CAL., April 29th, 1916

*Length of Course, 7.00927 Miles*

Promoter, RAISIN CLASSIC TROPHY ASSOCIATION (N. R. COOPER, Secretary)

Referee, P. J. WALKER

A. A. A. Representative, E. F. CHEFFINS

Starter, E. F. CHEFFINS; Assistant, STEVE NEAL

Chief Timer, E. H. PENDLETON

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 451 (43 laps)	301.4	Duesenberg Sp.....	O'Donell .....	4:54.13	61.46
		Stutz Sp.....	Parsons .....	4:58.06	
		Gordon Sp.....	Elliott (flagged 40th lap)		
		Studebaker Sp.....	Roads (flagged 37th lap)		
		Marmon Sp.....	Guy Ball (flagged 35th lap)		
		Gandy Sp.....	Gandy (out 32d lap)		
		Buick Sp.....	Strachan (out 27th lap)		
		Stutz Sp.....	Cooper (out 25th lap)*		
		Gandy Sp.....	E. S. Waterman (out 23d lap)		
		Stutz Sp.....	F. B. Good (out 19th lap)		
		Durant Sp.....	Durant (out 14th lap, cr. cyl.)		
		Omar Sp.....	Hughes (out 14th lap, str. gr.)		
		Stutz Sp.....	Dutton (out 7th lap)		
		McKee Sp.....	M. L. Debolt (out 2d lap)		
		Melcher Sp.....	W. Melcher (out 1st lap)		
		Hercules Sp.....	H. S. Trost		
Ford Sp.....	W. G. Lewis				

\* Disqualified for changing mechanic without Referee's permission.

Sanction No. 913

## GARDENA, CAL., May 6th, 1916

*Length of Course, 2.2 Miles*

Promoter, GARDENA VALLEY STRAWBERRY DAY ASSN., INC.

Referee, GUY M. WEST

A. A. A. Representative, AL G. WADDELL

Starter, GEORGE M. ADAIR

Chief Timer, OWEN R. BIRD

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 231 (34 laps)	74.8	Chevrolet Sp.....	Hill .....	1:47.13	41.86
		Ford Sp.....	Robt. Connor...	1:49.02	
		Chevrolet Sp.....	Dochterman (flagged 31st lap)		
		Fiat Sp.....	Bacon (flagged 29th lap)		
		Cadillac Sp.....	Heacox (out 29th lap)		
		Grant Sp.....	Stutzman (out 18th lap)		
Metz Sp.....	Fuselehr (out 18th lap)				

**VISALIA, CAL., July 4th, 1916***Length of Course, 3.15 Miles*Promoter, TULARE COUNTY AUTOMOBILE ASSOCIATION,  
FRED. D. STEEL, Secretary

Referee, L. A. NARES

A. A. A. Representative, E. F. CHEFFINS  
Starter, N. R. COOPER; Assistant, FRANK G. HOOD  
Chief Timer, O. R. LA MONTAGUE  
Chief Scorer, FRED W. WALTERS  
Chief Surgeon, DR. C. M. WHITE

Class	Distance	CAR	DRIVER	Time	M.P.H.
D	151.2 (48 laps)	Gandy Sp.....	Moosie .....	2:39:20.0	56.94
		Gordon Sp.....	Elliott .....	2:51:17.4	
		National Sp.....	Burke .....	2:53:20.0	
		Gandy Sp.....	Price .....	2:57:26.0	
		National Sp.....	Cody (flagged 40th lap)		
		Drake Sp.....	Drake (out 40th lap, loose wheel)		
		Studebaker Sp.....	Roads (out 33d lap, b. r. axle)		
		Ford Sp.....	Taylor (out 20th lap, br. rad.)		
		Stevens-Duryea Sp.	Francis (out 9th lap, on fire)		
		B. M. C. Sp.....	B. M. Crawford (out 7th lap, cr. cyl.)		
		Grant Sp.....	Stutzman (out 4th lap, turned over)		
		Overland Sp.....	Estabrook (out 1st lap, broken oil line)		

*Sanction No. 947***HIBBING, MINN., July 4th, 1916**Promoter, AUTOMOBILE CLUB OF HIBBING (PAUL D. WILLARD,  
Secretary)Referee and A. A. A. Representative, C. E. DUTTON  
Chief Timer, F. A. KLASS

Class	Distance	CAR	DRIVER	Time	M.P.H.
D	99.44	Stutz Sp.....	Shannon .....	2:21:46.2	42.09
		Thomas Sp.....	Rich .....	2:29:39.0	
		Ford Sp.....	H. G. Allyn...	2:29:43.0	
		Everett Sp.....	Banks .....	2:52:01.0	
		Buick Sp.....	Lee Oldfield..	2:56:17.0	
		Velie Sp.....	F. M. Smith (out 8th lap, broken wheel)		
		Locomobile Sp....	Harmon (did not start, broken timer)		
		Mercedes Sp.....	Buchanan (did not start, brkn. cyl.)		



**TUCSON, ARIZONA, OCTOBER 27th, 1916***Length of Course, 4.298 Miles*Promoter, SOUTHERN ARIZONA FAIR ASSOCIATION (JOHN  
F. MYERS, Secretary)

Referee, WARREN A. GROSETTA

Starter, J. S. EBERT

A. A. A. Representative, R. R. SCHWEITZER

Chief Timer, SAM J. MANSFIELD, CHAS. H. DODGE, JOHN Z. HOWE  
Technical Committee, R. C. GIFFS, M. STEVENSON

Class	Distance	CAR	DRIVER	Time	M.P.H.
D	51.576 (12 laps)	Stutz Sp.....	Delno .....	51:28.0	60.13
		Fiat Sp.....	Miller .....	1:22:88.0	
		National Sp.....	Aquirre (out 6th lap)	tire trouble	
		Overland Sp.....	McNabb (out 5th lap)		
		Ford Sp.....	Boyer (out 4th lap)		

*Sanction No. 994***DOUGLAS TO PHOENIX, ARIZ., Nov. 13th, 1916***Via Bisbee, Tombstone, Tucson, Florence and Mesa*Promoter, ARIZONA STATE FAIR ASSOCIATION (T. D. SHAUGH-  
NESSY, Secretary)

Referee, LYLE ABBOTT

Starter, DICK HOLLINGSWORTH

A. A. A. Representative, G. P. BULLARD

Chief Timer, CHAS. McARTHUR

Technical Committee, F. L. JONES, AL SMITH, R. G. JONES

Class	Distance	CAR	DRIVER	Time	M.P.H.
D	Approx. 273	Paige Sp.....	E. L. Cord.....	8:12:15	33.28
		Pierce-Arrow Sp...	B. Hines.....	8:19.15	
		Buick Sp.....	P. Thomason...8:25.35		
		Cole Sp.....	F. Larison.....	8:44.30	
		Pope Sp.....	H. Miller.....	8:47.30	
		Marmon Sp.....	T. Brewer.....	8:57.35	
		Stutz Sp.....	R. L. Smith (finished late)		
		Ford Sp.....	C. Slankard (out at Florence)		
		Franklin Sp.....	H. Wells (out 30 miles from finish)		
		S-Knight Sp.....	G. Sawaya (out at Tucson)		
		National Sp.....	C. Miller (out at Tucson)		
		Buick Sp.....	G. Simon (out at Tucson)		
		Stutz Sp.....	C. Branum (out at Tomb- stone)		
		Hudson Sp.....	J. Hinton (out near Tomb- stone)		
Cadillac Sp.....	L. Burgy (out before Bisbee)				

# VANDERBILT CUP RACE, SANTA MONICA, CAL.,

## Nov. 16th, 1916

*Length of Course, 8.401 Miles*

Promoter, SANTA MONICA CHAMBER OF COMMERCE (PAUL

J. C. DERKUM, Race Manager)

Referee, G. P. BULLARD

Starter, N. R. COOPER

A. A. A. Representative, AL G. WADDELL

Chief Timer, E. H. PENDLETON

Technical Committee, JOHN T. DYE, R. P. PENNOCK, F. AUBERT

Chief Surgeon, DR. A. W. HILLER

Class	Distance	CAR	DRIVER	Time	M.P.H.
E under 301 (35 laps)	294.035	Peugeot Sp.....	Resta .....	3:22:48.4	86.99
		Stutz Sp.....	Cooper .....	3:30:40.4	
		Duesenberg Sp..	Weightmann ....	3:42:00.4	
		Hudson Sp.....	Roads .....	3:54:45.0	
		Hudson Sp.....	Patterson (flagged)		
		Hudson Sp.....	Vail (flagged, 33rd lap)		

### *Eliminated During Race*

Bolden-Crosby S Bolden (out 32nd lap, br. cr. sh.)  
 Mercer Sp..... Pullen (out 30th lap, engine tr.)  
 Peugeot Sp..... Aitken (out 19th lap, valve tr.)  
 Duesenberg Sp.. Buzane (out 15th lap, cr. cyl.)  
 Duesenberg Sp.. Moosie (out 11th lap, clutch)  
 Mercer Sp..... Ruckstell (out 11th lap, radiator)  
 Omar Sp..... Toft (out 9th lap, burned brgs.)  
 Marmon Sp..... Jackson (out 9th lap, clutch)  
 Mercer Sp..... Thomas (out 8th lap, engine tr.)  
 Owl Sp..... Carleton (out 7th lap, gear)  
 Duesenberg Sp.. Rickenbacher (out 6th lap, strip'd gear)  
 National Sp.... Cody (out 4th lap, axle)  
 Gandy Sp..... Price (out 3rd lap, cr. shaft)

# GRAND PRIZE ROAD RACE, SANTA MONICA, CAL., Nov. 18th, 1916

*Length of Course, 8.401 Miles*

Promoter, SANTA MONICA CHAMBER OF COMMERCE (PAUL C.

J. DERKUM, Race Manager)

Referee, J. P. BRADY

Starter, GEORGE ADAIR

Chief Timer, E. H. PENDLETON

Chief Scorer, CHAS. WARNER

Chairman Technical Committee, GEORGE F. STEPHENSON

A. A. A. Representative, AL. G. WADDELL

Class	Distance	CAR	DRIVER	Time	M.P.H.
D (48 laps)	403.248	Peugeot Sp...	Wilcox	4:42:47.00	85.56
			Aitken (relief)		
		Stutz Sp.....	Cooper	4:45:55.00	
		Hudson Sp.....	Patterson	5:09:38.40	
		Hudson Sp.....	Roads	5:34:59.00	
		Duesenberg Sp.	Weightmann (flagged 44th lap)		
		Mercer Sp.....	Thomas (out 38th lap, valve)		
		National Sp....	Cody (out 32nd lap, clutch)		
		Duesenberg Sp.	Buzane (out 27th lap, piston)		
		Duesenberg Sp.	Rickenbacher (out 26th lap, crank shaft)		
		Stutz Sp.....	Durant (out 17th lap, valve)		
		Peugeot Sp....	Resta (out 13th lap, engine)		
		Marmon Sp....	Jackson (out 13th lap)		
		Gandy Sp.....	Price (out 8th lap, engine)		
		Hudson Sp.....	Vail (out 4th lap, bearing)		
Omar Sp.....	Toft (out 4th lap magneto)				
Peugeot Sp....	Aitken (out 3rd lap, valve)				
Mercer Sp.....	Pullen (out 3rd lap, burned)				
Duesenberg Sp.	Moosie (out 2nd lap, clutch)				
Owl Sp.....	Carlton (out 2nd lap, pump)				



# BOULEVARD RACES.

Sanction No. 897

## CORONA BOULEVARD, CORONA, CAL., April 8th, 1916

Length of Course, 2.76895 Miles

Promoter, CITRUS BELT RACING ASSOCIATION OF CORONA, INC.,  
(H. H. HOSS, Secretary)

Referee, F. H. OTT

A. A. A. Representative, AL G. WADDELL

Starter, FRANK LOWERY

Chief Timer, E. H. PENDLETON

Chief Surgeon, DR. ALBERT W. HILLER

Class	Distance	CAR	DRIVER	Time	M.P.H.
D	276.895 (100 laps)	Duesenberg Sp.....	O'Donell	3:29:52.0	79.16
		Mercer Sp.....	Thomas	3:36:01.0	
		Mercer Sp.....	Pullen	3:38:36.4	
		Omar Sp.....	Tetzlaff	3:58:04.0	
		Chevrolet Sp.....	Durant	4:05:24.0	
		Gandy Sp.....	Waterman	(flagged)	
		Peugeot Sp.....	Burman	(out 97th lap, wrkd.)	
		Delage Sp.....	Oldfield	(out 47th lap, rocker arm)	
		Gandy Sp.....	Gandy	(out 47th lap, engine)	
		Sunbeam Sp.....	Hughes	(out 47th lap, broken clutch)	
		Tahis Sp.....	Teel	(out 29th lap, broken con. rod)	
		Stutz Sp.....	Cooper	(out 15th lap, crankshaft)	

Sanction No. 903

## PANAMA-CALIFORNIA INTERNATIONAL EXPOSITION, SAN DIEGO, CAL., March 25th, 1916

Length of Course, 1.136 Miles

Promoter, CLARENCE BENNETT

Referee, T. S. MOON

A. A. A. Representative, AL G. WADDELL

Starter, G. A. BUCKINGHAM

Class	Distance	CAR	DRIVER	Time	M.P.H.
Invitation	50	Peugeot Sp.....	Burman	57:30.8	52.16
		Milac Sp.....	Tetzlaff	58:20.4	
Match Race	(44 laps)	Delage Sp.....	Oldfield	59:15	
		Durant Sp.....	Durant	60:02	

# TRACK RACES.

Sanction No. 920

## BAKERSFIELD, CAL., May 7th, 1916

One Mile Dirt Track

Promoter, KERN COUNTY FAIR ASSN. (PAUL C. DERKUM, Director of Contests)

Referee, OWEN R. BIRD

A. A. A. Representative, AL G. WADDELL

Starter, N. R. COOPER

Chief Timer, E. H. PENDLETON

Technical Committee, FRED AUBERT and CECIL SMITH

Class	Distance	CAR	DRIVER	Time
E under 231	25	Maxwell Sp.....	Walter Smith .....	28:58.8
		Chevrolet Sp.....	Dochterman (flagged 22d lap)	
		Studebaker Sp.....	(Out 20th lap, trans.)	
D	100	Omar Sp.....	Hughes .....	1:36:08.4
		Stutz Sp.....	Good .....	1:38:04.8
		Studebaker Sp.....	Roads .....	1:38:30.6
		Gordon Sp.....	Elliott .....	1:39:20.6
		Gandy Sp.....	Gandy (flagged 97th lap)	
		Gandy Sp.....	Waterman (out 66th lap bearing)	
		McKee Sp.....	Debolt (out 33rd lap, broken oil line)	
Marmon Sp.....	Ball (did not start)			

Sanction No. 921

## OLYMPIC PARK, NEWARK, N. J., May 30th, 1916

One-half Mile Dirt Track

Promoter, OLYMPIC PARK AUTO RACING ASSN. (T. B. SHOEMAKER, Director of Contests)

Referee and A. A. A. Representative, W. HARVEY TRABAND, Jr.

Starter, W. HARVEY TRABAND, Jr.

Timers, JOHN T. DOLAN, C. V. CLARE, W. A. SKERRETT

Scorers, F. E. SPOONER, E. D. ROEBUCK, P. A. GREGORY

Class	Distance	CAR	DRIVER	Time
Time Trials	1/2	J. J. R. Sp.....	Watson .....	:38.4
		Stutz Sp.....	Dickinson .....	:39.0
		Stutz Sp.....	Lambert .....	:39.6
		Mercedes Sp.....	Theobald .....	:39.8
		Ford Sp.....	Duryea .....	:40.4
		Fiat Sp.....	Leonard .....	:40.6
		J. & F. Sp.....	Fraser .....	:42.8
		National Sp.....	Rollins .....	:45.6
		Ford Sp.....	Dave Hall (failed to appear)	
E under 301	3	J. J. R. Sp.....	Watson .....	4:29.2
		J. & F. Sp.....	Fraser .....	4:44.2
		Ford Sp.....	Duryea (out 5th lap)	



Class	Distance	CAR	DRIVER	Time
E under 451	3	J. J. R. Sp.....	Watson .....	3:54.4
		Stutz Sp.....	Dickinson .....	3:56
		Stutz Sp.....	Lambert	
		National Sp.....	Rollins	
D	5	J. J. R. Sp.....	Watson .....	6:26.4
		Stutz Sp.....	Dickinson	
		Mercedes Sp.....	Theobald	
		National Sp.....	Rollins (out 2nd lap)	
		J. & F. Sp.....	Fraser (out 1st lap)	
Pursuit	5	Stutz Sp.....	Dickinson .....	6:37
		Mercedes Sp.....	Wilcox (second)	
		Stutz Sp.....	Lambert	
		J. J. R. Sp.....	Watson (mech. trouble)	
Handicap	3	Stutz Sp.....	Dickinson ....	Scratch 4:07.8
		Mercedes Sp.....	Wilcox .....	5 sec. 4:11.4
		J. & F. Sp.....	Fraser .....	20 "
		Ford Sp.....	Duryea .....	10 "
		Stutz Sp.....	Lambert	

Sanction No. 922

## ELMIRA, N. Y., May 30th, 1916 (Night)

One-half Mile Dirt Track

Promoter, ELMIRA AUTOMOBILE-MOTORCYCLE-BICYCLE RACING ASSN.

Referee, A. A. A. Representative and Starter, JAMES A. HEMSTREET

Timer, CHRISTIE RAITHEL

Judges, G. W. HENNER, GEO. J. BAUER

Class	Distance	CAR	DRIVER	Time
E under 301	3	Corbin Sp.....	Harry Veltz .....	4:55
		Dort Sp.....	Chet Kaufman	
		Paige Sp.....	A. B. Hickox	
		Regal Sp.....	Roy Massecar	
		Tiger Sp.....	Russell Gore	
E under 451	3	Dort Sp.....	Kaufman .....	5:00
		Corbin Sp.....	Veltz (did not finish)	
Pursuit	5	Dort Sp.....	Kaufman .....	8:10
		Paige Sp.....	Hickox	
		Regal Sp.....	Massecar	
Handicap	3	Paige Sp.....	Hickox .....	5:08
		Dort Sp.....	Kaufman	
		Regal Sp.....	Massecar	
D	5	Dort Sp.....	Kaufman .....	9:26
		Regal Sp.....	Massecar	
Exhibition	1	Stutz Sp.....	F. E. Thomas.....	1:42
		2	Stutz Sp.....	F. E. Thomas.....



# OLYMPIC PARK, NEWARK, N. J., June 17th, 1916 (Night)

## One-half Mile Dirt Track

Promoter, OLYMPIC PARK AUTO RACING ASSOCIATION (T. B. SHOEMAKER, Director of Contests)

A. A. A. Representative, F. A. CROSELMIRE

Referee, F. A. CROSELMIRE

Starter, W. HARVEY TRABAND, JR.

Timers, PROSPER CLUST, C. V. CLARE, W. T. SEEGER

Scorers, F. E. SPOONER, PERCY A. GREGORY, W. A. SKERRETT

Class	Distance	CAR	DRIVER	Time
Time Trials	½	Stutz Sp.....	Dickinson .....	37.4
		Mercedes Sp.....	Theobald .....	39.2
		Fiat Sp.....	Leonard .....	39.8
		J. & F. Sp.....	Fraser .....	40.0
		Adams Sp.....	Adams .....	40.6
		Mercer Sp.....	Gouirand .....	43.2
		Saxon Sp.....	Wilcox .....	46.2
E under 301	3	Adams Sp.....	Adams .....	4:16.8
		Saxon Sp.....	Wilcox (second)	
		J. & F. Sp.....	Fraser (out 2nd lap)	
E under 451	3	Stutz Sp.....	Dickinson .....	4:13.6
		J. & F. Sp.....	Fraser (second)	
		Saxon Sp.....	Wilcox (third)	
		Mercer Sp.....	Gouirand (out 4th lap)	
D	5	Stutz Sp.....	Dickinson .....	6:46
		Mercedes Sp.....	Theobald (second)	
		Fiat Sp.....	Leonard (third)	
		J. & F. Sp.....	Fraser (fourth)	
		Adams Sp.....	Adams (out 4th lap)	
		Mercer Sp.....	Gouirand (out 2nd lap)	
Pursuit	5	Stutz Sp.....	Dickinson .....	6:04.8 *
		Mercedes Sp.....	Theobald (second) *	
		Fiat Sp.....	Leonard (eliminated)	
		J. & F. Sp.....	Fraser (eliminated)	
Match	1	Stutz Sp.....	Dickinson .....	1:17.8
		Mercedes Sp.....	Wilcox .....	1:18.0
Handicap	3	Mercedes Sp.....	Theobald .....	5 sec. 4:21.2
		Stutz Sp.....	Dickinson .....	Scratch 2nd
		Fiat Sp.....	Leonard .....	15 sec. 3rd
		Mercer Sp.....	Gouirand .....	35 " "
		J. & F. Sp.....	Fraser .....	20 " "
				(Out 4th lap)
				(Out 3rd lap)

\* These two cars finished so closely it was agreed to run one-mile match race, standing start, to decide winner.

**GALESBURG, ILLINOIS, June 22nd, 1916***One Mile Dirt Track*Promoter, GALESBURG DISTRICT FAIR ASSN. (EDWARD A. TATE,  
Secy.)

Referee, CLIFFORD IRELAND

A. A. A. Representative, W. C. BARNES

Starter, FRED J. WAGNER

Director of Timing, R. A. LEAVELL (Warner instrument)

Director of Scoring, L. A. HILLMAN

Technical Committee, E. A. TURNER, Chairman

Class	Distance	CAR	DRIVER	Time
E under 451	100	Ogren Sp.....	Henning	1:41:31.8
		Duesenberg Sp....	Buzane	1:43:15.5
		Stutz Sp.....	Andy Burt	1:44:20
		Miles Sp.....	Art Klein	1:45:22
		Burman Sp.....	Gable (flagged)	
		Mercer Sp.....	Milton (flagged)	
		Cino Sp.....	McNay (flagged)	
		Parker Sp.....	C. R. Parker	
		Hudson Sp.....	Mulford (out 24 miles, broken piston)	
		Hudson Sp.....	Vail (out 10 miles)	

**WATERVILLE, WASH., June 28th, 1916***One-half Mile Dirt Track*Promoter, AUTOMOBILE CLUB OF WATERVILLE (A. J.  
FILLBRANDT, Secretary)

Referee, J. H. WINSTANLEY

A. A. A. Representative, F. M. FRETWELL

Starter, W. C. MONROE

Timers, J. W. WARBURTON, C. BERG, T. A. THROP

Scorers, H. MARLINSON, M. E. LIRS

Class	Distance	CAR	DRIVER	Time
Slow Race	1/8	Studebaker Sp....	Layman	2:37.0
		Chalmers Sp.....	Mattison	2:21.0
		Buick Sp.....	Ward (did not finish)	
Pursuit	10	Romano Sp.....	Lentz	11:14.0
		Stutz Sp.....	Parsons	11:16.0
		Stutz Sp.....	Dauray (out 7th lap)	
		Schneider Sp.....	O'Brien (out 5th lap)	
		Saxon Sp.....	Skinner (eliminated in trials)	
Ford Sp.....	Paton (eliminated in trials)			



Class	Distance	CAR	DRIVER	Time
E under 231	5	Chalmers Sp.....	Mattison .....	6:49.5
		Saxon Sp.....	Skinner .....	7:05.5
		Ford Sp.....	Nelson .....	7:59.0
		Ward Sp.....	Ward (stripped gear 1st lap)	
		Ford Sp.....	Paton (eliminated in trials)	
		Chevrolet Sp.....	H. O'Brien (eliminated in trials)	
D	10	Romano Sp.....	Lentz .....	12:07.0
		Schneider Sp.....	O'Brien .....	13:02.0
		Stutz Sp.....	Dauray .....	14:36.0
		Stutz Sp.....	Parsons .....	15:10.0
Consolation	5	Ford Sp.....	Paton .....	7:08.0
		Buick Sp.....	Ward .....	7:10.0
		Chevrolet Sp.....	O'Brien .....	7:19.0

### June 29th

Time Trials	1	Romano Sp.....	Lentz .....	1:07.75
		Stutz Sp.....	Dauray .....	1:11.00
		Schneider Sp.....	Mattison .....	1:15.50
		Ford Sp.....	Paton .....	1:23.00
		Saxon Sp.....	Skinner .....	1:25.00
Pursuit Invitation	10	Chalmers Sp.....	Mattison .....	(winner)
		Hupmobile Sp.....	Acuff	
		Ford Sp.....	Paton	
Touring Cars	5	Buick Sp.....	North .....	7:19.5
		Chalmers Sp.....	Mattison .....	7:21.5
		Buick Sp.....	Ward .....	7:22.0
D	10	Romano Sp.....	Lentz .....	12:11.5
		Schneider Sp.....	Mattison .....	12:17.0
		Stutz Sp.....	Dauray .....	13:50.0
		Ford Sp.....	Paton .....	14:30.0

Sanction No. 905

## ALAN (COUER d'ALENE), IDAHO, July 4th, 1916

One Mile Dirt Track

Promoter, NORTHWEST AUTO RACING ASSN., INC. (ROBT. A. HILLER, Secy.)

Referee, C. M. HARRIS, Jr.

A. A. A. Representative, JOE S. BAIN

Starter, F. O. BERG

Class	Distance	CAR	DRIVER	Time
Time Trials	1	Romano Sp.....	Rae Lentz .....	52.8
		Schneider Sp.....	Matteson .....	56.8
		Spokane Sp.....	Barsby .....	57.4



Class	Distance	CAR	DRIVER	Time
		Stutz Sp.....	Dauray .....	57.4
		Beck Sp.....	Beck .....	59.6
		Forbes Sp.....	Forbes .....	62.
		Omar Sp.....	Toft .....	62.6
		Saxon Sp.....	Skinner .....	67.8
		National Sp.....	Schlicht .....	78.6
Invitation	25	Spokane Sp.....	Barsby .....	29:06.8
		Northwest Sp.....	Hahn .....	30:37
		National Sp.....	Schlicht .....	30:42.2
		Saxon Sp.....	Skinner .....	30:59.8
		Elkhart Sp.....	Belshaw (did not finish)	
		Beck Sp.....	Beck (did not finish)	
Pursuit	18½	Romano Sp.....	Rae Lentz .....	18:53.6
		Schneider Sp.....	Matteson	
		Stutz Sp.....	Dauray	
		Spokane Sp.....	Barsby	
D	50	Stutz Sp.....	Dauray .....	60:05.8
		Omar Sp.....	Toft (second)	
		Schneider Sp.....	Schneider (third)	
		Forbes Sp.....	Forbes (fourth)	
		Northwest Sp.....	Hahn (fifth)	
		Saxon Sp.....	Skinner (did not finish)	
		Elkhart Sp.....	Belshaw (did not finish)	
		Spokane Sp.....	Barsby (did not finish)	
		Romano Sp.....	Rae Lentz (did not finish)	

Sanction No. 932

## BERRIEN CO. FAIR GROUNDS TRACK, BENTON HARBOR, MICH., July 4th, 1916

One-half Mile Dirt Track

Promoter, FLOYD E. FITZSIMMONS

Referee, JAMES DWAN

A. A. A. Representative, W. D. EDENBURN

Starter, AL VON SAR

Class	Distance	CAR	DRIVER	Time
E, Ford cars	10	Ford .....	Putterbaugh (only entrant ready to start)	
			(Referee allowed "Walkover"; car made 1 lap 40.4 secs.)	
D	50	Marmon Sp.....	Alley .....	1:04:16.0
(100 laps)		Stutz Sp.....	Burt .....	1:08:36.5
		Mercer Sp.....	Andrus .....	1:23:25.5
		Patrick Sp.....	Patrick (flagged 71st lap)	
		Buick Sp.....	Downs (flagged 59th lap)	
		Ogren Sp.....	Henning (out 85th lap)	
		Buick Sp.....	Cavanaugh (on fire 84th lap)	

**OLYMPIC PARK, NEWARK, N. J., July 4th, 1916***One-half Mile Dirt Track*

Promoter, OLYMPIC PARK AUTO RACING ASSOCIATION (T. B. SHOEMAKER, Director of Contests)

Referee and A. A. A. Representative, F. A. CROSELMIRE

Starter, W. HARVEY TRABAND, JR.

Timers, PROSPER CLUST, C. V. CLARE

Scorers, W. A. SKERRETT, P. A. GREGORY

Class	Distance	CAR	DRIVER	Time
Time Trials	1/2	Stutz Sp.....	Dickinson .....	35.4*
		I. C. B. Sp.....	I. C. Barber .....	35.4*
		Chevrolet Sp.....	Jessop .....	35.8
		Mercer Sp.....	Don Moore .....	39.0
		Fiat Sp.....	Leonard .....	39.4
		Mercer Sp.....	Gouirand .....	40.6
		Ford Sp.....	Duryea .....	41.6
		J. & F. Sp.....	Fraser .....	43.6
E under 301	3	Chevrolet Sp.....	Jessop .....	3:58.8
		Mercer Sp.....	Gouirand	
		J. & F. Sp.....	Fraser	
		Ford Sp.....	Duryea (out 5th lap)	
		Mercer Sp.....	Moore (out 3rd lap)	
E under 451	3	Stutz Sp.....	Dickinson .....	3:39.40
		I. C. B. Sp.....	Barber	
		Chevrolet Sp.....	Jessop	
		J. & F. Sp.....	Fraser	
		Mercer Sp.....	Moore (out 5th lap)	
		Mercer Sp.....	Gouirand (out 2nd lap)	
D	5	Stutz Sp.....	Dickinson .....	6:18.4
		Chevrolet Sp.....	Jessop	
		Fiat Sp.....	Leonard	
		Mercer Sp.....	Gouirand	
		Mercer Sp.....	Moore (out 2nd lap)	
		I. C. B. Sp.....	Barber (out 1st lap, tire)	
Handicap	3	Stutz Sp.....	Dickinson .....	Scratch 4:08.4
		Mercer Sp.....	Gouirand .....	10 sec.
		Mercer Sp.....	Moore .....	20 "
		Fiat Sp.....	Leonard .....	15 "
		I. C. B. Sp.....	Barber .....	3 "
		J. & F. Sp.....	Fraser (out 1st lap)	
Match Race	3	Adams Sp.....	Adams .....	3:46.8
		I. C. B. Sp.....	Barber (second)	
		Stutz Sp.....	Dickinson (tire trouble)	

\* Tie run off in last event, I. C. B. winning.



**ELMIRA, NEW YORK, July 4th, 1916 (Afternoon)***One-half Mile Dirt Track*

Promoter, ELMIRA AUTOMOBILE-MOTORCYCLE-BICYCLE RACING ASSOCIATION, (A. B. HICKOX President)

A. A. A. Representative, Referee and Starter, JAMES A. HEMSTREET  
Scorers, G. A. CHRISTOPHER, C. MARSHALL

Class	Distance	CAR	DRIVER	Time
D	3	Chalmers Sp.....	Bell .....	4:40
		Oldsmobile Sp.....	Newhouse .....	
		Paige Sp.....	Woltman .....	
		Oakland .....	Cleary .....	
E under 301	3	Oldsmobile Sp.....	Newhouse .....	4:29
		Paige Sp.....	Woltman .....	
Pursuit	3	Paige Sp.....	Woltman .....	winner
		Oldsmobile Sp.....	Newhouse .....	
		Oakland Sp.....	Cleary .....	
		Chalmers Sp.....	Bell .....	
Handicap	3	Oakland Sp.....	Cleary .....	4:51
		Oldsmobile Sp.....	Newhouse .....	
		Paige Sp.....	Woltman .....	
		Chalmers Sp.....	Bell .....	

**(Night)**

D	3	Oakland Sp.....	Cleary .....	4:40
		Stearns Sp.....	Brink .....	
		Hudson Sp.....	Taylor .....	
		Oldsmobile Sp.....	Newhouse .....	
		Chalmers Sp.....	Bell .....	
E under 301	3	Oldsmobile Sp.....	Newhouse .....	4:37
		Oakland Sp.....	Cleary .....	
		Hudson Sp.....	Taylor .....	
		Stearns Sp.....	Brink .....	
Pursuit	3	Oldsmobile Sp.....	Newhouse .....	winner
		Oakland Sp.....	Cleary .....	
		Stearns, Sp.....	Brink .....	
		Hudson Sp.....	Taylor .....	
		Chalmers Sp.....	Bell .....	
Handicap	3	Oldsmobile Sp.....	Newhouse .....	4:38
		Oakland Sp.....	Cleary .....	
		Hudson Sp.....	Taylor .....	
		Chalmers Sp.....	Bell .....	
		Stearns Sp.....	Brink .....	



# COMSTOCK PARK TRACK, GRAND RAPIDS, MICH., July 8th, 1916

## One Mile Dirt Track

Promoter, AUTOMOBILE BUSINESS ASSOCIATION (E. T.  
CONLON, Secretary)

Referee, DR. F. C. WARNSHUIS

A. A. A. Representative, W. D. EDENBURN

Starter, FRED PANTILAND

Timers, W. S. FARRANT, Chief; G. W. FARRANT

Scorers, J. W. WARNSHUIS, E. A. BURROWS

Technical Committee, HARRY A. SCOTT, Chairman

Class	Distance	CAR	DRIVER	Time
E under 451	100	Ogren Sp.....	Haibe .....	1:46:03.4
		Mercedes Sp.....	De Palma .....	1:47:59.0
		Stutz Sp.....	Burt .....	1:50:27.2
		Mercer Sp.....	Andrus .....	2:05:14.8
		Hudson Sp.....	Mulford (flagged 85th mile)	
		Vernon Sp.....	Kline (withdrew 29th lap)	
		Patrick Sp.....	Patrick (excused, broken timing gear)	
		Cornelian Sp.....	Clark (excused, broken con. rod)	
		Premier Sp.....	Anderson (excused)	

## July 9th, 1916

E under 451	10	Ogren Sp.....	Haibe .....	10:55.0
		Mercer Sp.....	Andrus .....	11:40.8
		Stutz Sp.....	Burt (out 7th lap, tire tr.)	
		Patrick Sp.....	Patrick (out 6th lap, eng. tr.)	
E under 451	15	Stutz Sp.....	Burt .....	16:49.8
		Ogren Sp.....	Haibe .....	16:51.2
		Mercer Sp.....	Andrus .....	17:34.0
		Patrick Sp.....	Patrick (out 7th lap, eng. tr.)	
E under 451	25	Ogren Sp.....	Haibe .....	28:21.4
		Patrick Sp.....	Patrick (flagged 21st lap)	
		Mercer Sp.....	Andrus (out 14th lap, broken gas line)	
		Stutz Sp.....	Burt (out 6th lap, broken valve)	

# WESTMORELAND FAIR GROUNDS TRACK, YOUNGWOOD, PA., July 22nd, 1916

*One-half Mile Dirt Track*

Promoter, UNIONTOWN MOTORING ASSOCIATION

Referee, A. D. SPENCER

A. A. A. Representative, F. H. ROSBORO

Starter, C. W. Johnson

Timers, A. M. CRICHTON, E. R. HAZEN

Scorers, J. W. LEE, A. H. SPRINGER

Class	Distance	CAR	DRIVER	Time
Time Trials	1	Miles Sp.....	F. B. Lightner.....	1:10.8
		Stutz Sp.....	Dickinson .....	1:11.0
		Wisconsin Sp.....	James Wier .....	1:12.4
		Haynes Sp.....	F. M. Seanor.....	1:15.0
		Packard Sp.....	Monahan .....	1:16.0
		Mercer Sp.....	Sharman .....	1:16.4
		Haynes Sp.....	N. P. Fetterman.....	1:17.2
		Dort Sp.....	Dailey .....	1:18.6
		Oakland Sp.....	Preston .....	1:19.6
		Sun Sp.....	Bell .....	1:20.0
		Peerless Sp.....	I. P. Fetterman.....	1:21.4
Stutz Sp.....	Lambert .....	1:23.0		
E Final Heat	3	Miles Sp.....	Lightner .....	3:56.5
		Sun Sp.....	Bell .....	4:04.4
		Dort Sp.....	Dailey .....	4:14.8
		Oakland Sp.....	Preston (out 5th lap)	
		Mercer Sp.....	Sharman (eliminated in semi-final)	
		Haynes Sp.....	N. P. Fetterman (eliminated in semi-final)	
		Haynes Sp.....	Seanor (eliminated in semi-final)	
E	3	Stutz Sp.....	Dickinson .....	3:46.4
		Packard Sp.....	Monahan .....	3:48.2
		Wisconsin Sp.....	Wier .....	3:51.0
		Stutz Sp.....	Lambert .....	4:01.8
		Peerless Sp.....	P. Fetterman.....	4:19.8
Exhibition	5	Sunbeam Sp.....	Christiaens .....	7:07.8
		Sunbeam Sp.....	Galvin .....	7:07.8
		Tire changes 18 secs., and 13 4/5 secs.		
D	25	Stutz Sp.....	Dickinson .....	32:30.0
		Haynes Sp.....	Seanor .....	34:52.0
		Wisconsin Sp.....	Wier (39 laps).....	38:50.0
		Packard Sp.....	Monahan (out 43rd lap)	
		Miles Sp.....	Lightner (out 36th lap)	
		Mercer Sp.....	Sharman (out 5th lap)	

Class	Distance	CAR	DRIVER	Time
Handicap	5	Stutz Sp.....	Lambert .....	30 sec. 7:26.4
		Peerless Sp.....	I. P. Fetterman.18 "	7:28.0
		Sun Sp.....	Bell .....	15 "
		Haynes Sp.....	N. P. Fetterman.Scratch	
			(Out 6th lap)	
		Dort Sp.....	C. H. Dailey....	5 sec.
			(Out 2nd lap)	

Sanction No. 945

## ROSE CITY SPEEDWAY, PORTLAND, OREGON, July 23rd, 1916

*One Mile Dirt Track*

Promoter, NORTHWEST AUTO RACING ASSOCIATION, ROBERT  
A. HILLER

A. A. A. Representative, H. L. KEATS

Class	Distance	CAR	DRIVER	Time
<i>No Official Report Received</i>				

Sanction No. 946

## KALAMAZOO, MICHIGAN, August 27th, 1916

*One Mile Dirt Track*

Promoter, KALAMAZOO CO. RECREATION PARK (WM. P.  
ENGLEMAN, Secretary)

Referee, FRED N. ROOT

A. A. A. Representative, W. D. EDENBURN

Starter, FRANK W. McQUEENEY

Surgeons, DRS. R. U. ADAMS and F. INGLEFRITZ

Class	Distance	CAR	DRIVER	Time
D	100	Stutz Sp.....	Burt*	
		Sunbeam Sp.....	Peacock	
		Cino Sp.....	Armentrout	
		Ostewig Sp.....	McNay	
		Buick Sp.....	Downs	
		Ogren Sp.....	Henning	
		Crawford Sp.....	Klein	
		Crawford Sp.....	Lewis	
		Crawford Sp.....	Chandler	
		Chalmers Sp.....	Ball	
		Hursh Sp.....	Hursh	
		Duesenberg Sp.....	Buzane	
Cino Sp.....	McCord			

\* Race called off account accident first lap.



**FLEMINGTON FAIR GROUNDS, FLEMINGTON, N.  
J., August 18th, 1916**

*One-half Mile Dirt Track*

Promoter, FLEMINGTON FAIR & CARNIVAL ASSOCIATION,  
T. B. SHOEMAKER, Director of Contest

Referee and A. A. A. Representative, F. A. CROSELMIRE

Starter, GEORGE T. THEOBALD

Timers, E. B. ALLEN, A. F. FORAN, E. H. WILSON

Scorers, CHAS. S. ALVATER, GEO. R. PARKER, JUDIAH HIGGINS

Class	Distance	CAR	DRIVER	Time
Time Trials	½	Stutz Sp.....	Dickinson .....	34.00
		Mercer Sp.....	Moore .....	35.75
		Mercer Sp.....	Gouirand .....	37.00
		Chevrolet Sp.....	Bauer .....	38.75
		Ford Sp.....	Gifford .....	40.75
		National Sp.....	Rollins .....	43.25
E under 301	3	Ford Sp.....	Duryea (broken valve)	
		Mercer Sp.....	Gouirand .....	5:30.5
		Chevrolet Sp.....	Bauer .....	
		Ford Sp.....	Gifford .....	
E under 451	3	Mercer Sp.....	Moore (thru fence 4th lap)	
		Stutz Sp.....	Dickinson .....	3:56.25
		Chevrolet Sp.....	Bauer .....	3:57.25
		Mercer Sp.....	Gouirand .....	
D	3	Ford Sp.....	Gifford .....	
		National Sp.....	Rollins .....	
		Stutz Sp.....	Dickinson .....	3:52
		Chevrolet Sp.....	Bauer .....	3:52.75
D Flying Start	3	Mercer Sp.....	Gouirand .....	
		National Sp.....	Rollins (out 4th lap)	
		Stutz Sp.....	Rich .....	3:43
		Chevrolet Sp.....	Bauer .....	3:46
Exhibition Time Trial	1	Mercer Sp.....	Gouirand .....	
		Stutz Sp.....	Dickinson .....	1:08
		(Time for one-half mile .....		:33.5
Handicap	3	Mercer Sp.....	Dickinson .....	Scratch
		Chevrolet Sp.....	Bauer .....	9 " 3:58
		Stutz Sp.....	Gouirand .....	25 sec. 3:56.25
			(out 5th lap, broken wheel)	

**BUTLER, PENN., AUGUST 22nd, 1916***One-half Mile Dirt Track*

Promoter, BUTLER DRIVING PARK &amp; FAIR ASSOCIATION,

(W. B. PURVIS, Secretary)

Referee, D. F. REED

A. A. A. Representative, F. H. ROSBORO

Starter, GEORGE VARNUM

Timers, I. G. SMITH, E. W. BINGHAM

Scorers, S. S. ATWELL, CHAS. MILLER, JERRY ADAMS

Class	Distance	CAR	DRIVER	Time
Time Trials	1	Haynes Sp.....	Robinson .....	1:16.50
		Klein Sp.....	Jones .....	1:19.25
		A. C. W. Sp.....	Ripple .....	1:19.75
		Saxon Six Sp.....	Wynn .....	1:21.25
		Buick Sp.....	Willets .....	1:22.50
		Dort Sp.....	Dailey .....	1:25.25
E	3	Haynes Sp.....	Robinson .....	3:48.75
		Dort Sp.....	Dailey (second)	
		Saxon Six Sp.....	Wynn (third)	
D	15	Haynes Sp.....	Robinson .....	18:43.75
		Klein Sp.....	Bush (second)	
		A. C. W. Sp.....	Ripple (third)	
		Saxon Six Sp.....	Wynn (fourth)	
		Dort Sp.....	Dailey (fifth)	

**PULASKI FAIR GROUNDS TRACK, PULASKI, PENN., Sept. 4th, 1916***One-half Mile Dirt Track*

Promoter, C. P. GALANOT

Referee and A. A. A. Representative, F. H. ROSBORO

Starter, FRED McCARTHY

Timers, J. E. BASTEAX, JOHN W. WADDINGTON

Scorers, EARL M. KYLE, C. F. JAMES

Class	Distance	CAR	DRIVER	Time
Time Trials	1	Bush Sp.....	Bush .....	1:13.00
		Kline Sp.....	Jones .....	1:16.00
		A. C. W. Sp.....	Ripple .....	1:17.00
		National Sp.....	Schwarz .....	1:17.75
		Glenwood Sp.....	Smith .....	1:18.00
		Michigan Sp.....	Fulkerson .....	1:20.00
		Stutz Sp.....	Heist .....	1:21.50
		H. K. Sp.....	Halley .....	1:24.00
		Metz Sp.....	Austin .....	1:30.00
E under 301	3	Michigan Sp.....	Fulkerson .....	3:24
		Metz Sp.....	Austin (second)	
		Glenwood Sp.....	Smith (third)	



Class	Distance	CAR	DRIVER	Time
E under 451	3	A. C. W. Sp.....	Ripple .....	4:10
		Michigan Sp.....	Fulkerson (second)	
		H. K. Sp.....	Halley (third)	
		Stutz Sp.....	Heist .....	
		Glenwood Sp.....	Smith .....	
		National Sp.....	Schwarz (out 1st lap)	
D	3	A. C. W. Sp.....	Ripple .....	3:50.5
		Kline Sp.....	Jones .....	
		Stutz Sp.....	Heist .....	
		H. K. Sp.....	Halley .....	
		Bush Sp.....	Bush .....	
		National Sp.....	Schwarz .....	
D	5	A. C. W. Sp.....	Ripple .....	6:53.0
		Stutz Sp.....	Heist (second)	
		H. K. Sp.....	Halley (third)	
		Glenwood Sp.....	Smith .....	
		Bush Sp.....	Bush .....	
		Michigan Sp.....	Fulkerson .....	
		Kline Sp.....	Jones (out 5th lap)	

Sanction No. 912

## SPOKANE, WASH., Sept. 4th, 1916

*One-half Mile Dirt Track*

Promoter, INLAND AUTO ASSN. (FRANK W. GUILBERT, Secy.)

Referee, C. M. HARRIS

A. A. A. Representative, JOE S. BAIN

Starter, R. A. FLYNN

Timers, FRANK W. SMITH, C. H. JONES, GEORGE R. DODSON, C. S. BROWN, GEORGE M. VARNELL

Scorers, M. M. WINANS, JOE KILMER, E. B. SNYDER, E. M. JAMISON

Class	Distance	CAR	DRIVER	Time
Time Trials	1	Romano Sp.....	Rae Lentz .....	1:05.6
		Stutz Sp.....	Gus Dauray .....	1:06.4
		Dodge Sp.....	Chas. Latta .....	1:11.0
		Erdman Sp.....	P. J. Erdman.....	1:17.8
		Ford Sp.....	Jud Case .....	1:18.8
		Saxon Sp.....	D. D. Skinner.....	1:20.0
		Schneider Sp.....	F. M. Pentacost.....	1:33.0
C 161-230	20	Dodge Sp.....	Latta .....	25:23
		Erdman Sp.....	Erdman .....	25:29
		Ford Sp.....	Case .....	25:45
		Crow-Elkhart Sp...	R. C. Belshaw.....	26:30
		Saxon Sp.....	Skinner (fifth)	
Pursuit	2½	Romano Sp.....	Lentz (winner)	
		Stutz Sp.....	Dauray	
		Dodge Sp.....	Latta	
		Erdman Sp.....	Erdman	



Class	Distance	CAR	DRIVER	Time
D	20	Romano Sp.....	Lentz .....	23:36.5
		Stutz Sp.....	Dauray .....	23:38.4
		Dodge Sp.....	Latta .....	23:56.0
		Hudson Sp.....	A. C. Matteson .....	24:56.0
		Erdman Sp.....	Erdman (fifth)	

### Sept. 5th, 1916

C 161-230	10	Dodge Sp.....	Latta .....	13:08.4
		Erdman Sp.....	Erdman .....	13:27.0
		Ford Sp.....	Case .....	13:35.0
		Saxon Sp.....	Skinner (wrecked)	

D	50	Dodge Sp.....	Latta .....	58:55.0
		Erdman Sp.....	Erdman .....	66:00.75
		Hudson Sp.....	Matteson .....	69:14.5
		Romano Sp.....	Lentz (fourth)	
		Stutz Sp.....	Duray (broke crankcase)	
		Schneider Sp.....	Pentacost (broke steering knuckle)	

Sanction No. 969

## BENNINGS RACE TRACK, WASHINGTON, D. C., Sept. 4th, 1916

*One Mile Dirt Track*

Promoter, AMERICAN AUTOMOBILE RACING ASSOCIATION,  
(W. L. CARTER, Secretary)

Referee, H. E. DUCKSTEIN

A. A. A. Representative, HORACE C. CHANDLEE

Starter, C. ROYCE HOUGH; assistant, PERRY KENYOUN

Timers, WM. O. DUCKSTIEN, Chief; W. I. STEWART, J. C.  
WHEELER

Scorers, JAMES A. HANDLEY, Chief; E. D. MONEUSE

Class	Distance	CAR	DRIVER	Time
E under 301	5	Kline-Kar Sp.....	French .....	6:07.4
		Burbage Sp.....	Burbage .....	6:08.8
		Biddle Sp.....	Morton .....	6:15.2
		Hupmobile Sp.....	Weightman .....	
		Oden Sp.....	Oden .....	
		Locomobile Sp.....	Gooch .....	
E under 451	5	I. C. B. Sp.....	Barber .....	5:46.0
		Kline-Kar Sp.....	French .....	5:49.4
		Burbage Sp.....	Burbage .....	5:53.8
		Kline-Kar Sp.....	Moore .....	
		Marq-Buick Sp.....	Kessler .....	
		Semmes Sp.....	Gibson .....	
		Biddle Sp.....	Morton .....	
Locomobile Sp.....	Gooch .....			

Class	Distance	CAR	DRIVER	Time
Exhibition Trials	3	Haynes Sp.....	Gish .....	4:01.0
		Jeffrey Sp.....	Wynn .....	4:11.6
D	15	I. C. B. Sp.....	Barber .....	16:48.6
		Stutz Sp.....	Dickinson .....	17:03.4
		Kline-Kar Sp.....	Moore .....	17:41.0
		Kline-Kar Sp.....	French .....	
		Burbage Sp.....	Burbage .....	
		Marq-Buick Sp....	Kessler .....	
		Biddle Sp.....	Morton .....	
		Semmes Sp.....	Gibson .....	
		Simplex Sp.....	Weightman (out 2d lap)	
Match	5	Stutz Sp.....	Dickinson .....	5:29.2
		I. C. B Sp.....	Barber .....	5:30.6
Handicap	5	Stutz Sp.....	Dickinson .....	5:40.0
		Kline-Kar Sp.....	Moore .....	5:42.2
		Semmes Sp.....	Gibson .....	5:46.2
		Biddle Sp.....	Morton .....	
		Burbage Sp.....	Burbage .....	
		I. C. B. Sp.....	Weightman .....	

Sanction No. 959

## WASHINGTON STATE FAIR TRACK, NORTH YAKIMA, WASH., Sept. 18th, 1916

*One Mile Dirt Track*

Promoter, YAKIMA AUTOMOBILE CLUB

Referee, R. E. HULL

Starter, HOMER S. KOCHER

A. A. A. Representative, F. M. FRETWELL

Timers, WM. HOGOBOOM, CHAS. GUOIN, FRED WOODCOCK

Scorers, R. S. LEWIS, C. F. BARROWS, C. E. FRASER, C. D. STEPHENS

Class	Distance	CAR	DRIVER	Time
Time Trials	1	Romano Sp.....	Lentz .....	52.5
		Schneider Sp.....	Dimmick .....	53.75
		Hudson Sp.....	Barsby .....	54.25
		Stutz Sp.....	Duray .....	57.5
		Dodge Sp.....	Latta .....	57.75
		Ford Sp.....	Erdman .....	59.5
		Chevrolet Sp.....	Johnson .....	68.5
Pursuit	10	Hudson Sp.....	Barsby .....	9:31.0
		Schneider Sp.....	Dimmick .....	9:31.0
		Stutz Sp.....	Duray .....	9:31.5
		Romano Sp.....	Lentz (broke crank shaft 8th lap)	



Class	Distance	CAR	DRIVER	Time
Invitation E under 231	20	Dodge Sp.....	Latta .....	20:16.0
		Ford Sp.....	Erdman .....	22:28.0
		Chevrolet Sp.....	Johnson .....	23:54.8
		Coey Sp.....	Fulmer .....	
D	35	Schneider Sp.....	Dimmick .....	32:20.0
		Dodge Sp.....	Latta .....	34:12.0
		Hudson Sp.....	Barsby .....	34:16.0
		Stutz Sp.....	Duray (tire trouble)	
		Ford Sp.....	Erdman .....	

Sanction No. 982

## FAIR GROUNDS TRACK, DU BOIS, PENN., Sept. 28th, 1916

*One-half Mile Dirt Track*

Promoter, C. P. GALANOT

Referee and A. A. A. Representative, F. H. ROSBORO

Starter, FRED McCARTHY

Timers, A. F. KUHN, G. A. LUKHART

Scorers, A. J. HAAG, S. R. BUXTON

Class	Distance	CAR	DRIVER	Time
Time Trials	1	National Sp.....	J. D. Kerr.....	1:14.0
		Bush Sp.....	F. E. Bush.....	1:17.0
		Kline Sp.....	W. B. Jones.....	1:19.5
		Great Western Sp..	C. M. Heist.....	1:21.6
		H. K. Sp.....	A. C. Halley.....	1:23.0
		Glenwood Sp.....	A. W. Smith.....	1:25.0
		Stutz Sp.....	Geo. Halley.....	1:25.0
		Great Western Sp..	F. E. Bush.....	1:30.6
		A. C. W. Sp.....	A. C. Wilson (did not start)	
		Buick Sp.....	F. H. Willetts (did not start)	
E under 451	3	National Sp.....	Kerr .....	4:13.4
		Great Western Sp..	Heist (second)	
		Glenwood Sp.....	Smith (third)	
		Stutz Sp.....	Geo. Halley (fourth)	
H. K. Sp.....	A. C. Halley (out 2d lap)			
E 301 and over	3	National Sp.....	Kerr .....	3:46.0
		Bush Sp.....	Bush .....	3:50.0
		Kline Sp.....	Jones (third)	
		Stutz Sp.....	Geo. Halley (fourth)	
		H. K. Sp.....	A. C. Halley (fifth)	
D	3	National Sp.....	Kerr .....	3:49.4
		Bush Sp.....	Bush .....	3:55.0
		Great Western Sp..	Heist (third)	
		Glenwood Sp.....	Smith (fourth)	



## TRENTON FAIR GROUNDS TRACK, TRENTON, N. J., Sept. 29th, 1916

### One-half Mile Dirt Track

Promoter, INTER-STATE FAIR (HORACE P. MURPHY, Director of Contests)

Referee and A. A. A. Representative, F. A. CROSELMIRE

Starter, F. J. WAGNER; assistant, JOHN N. KIRK

Timers, E. B. ALLEN, COL. R. B. KONOVER, DALE POHLMAN,  
J. L. BROCK

Scorers, NORMAN DRUCK, ARTHUR PERKINS, ROBT. M. BONHAM,  
DANIEL WEEDON, OLIVER MOORE, W. A. SMITH

Class	Distance	CAR	DRIVER	Time
E under 301 Heat No. 1	5	Mercer Sp..... Mercer Sp.....	Haines ..... McBride (second)	6:28.2
Heat No. 2		Erwin Sp..... Stutz Sp.....	G. Bergdoll ..... Dolan (second)	7:55.2
(Races abandoned account of rain)				

Sanction No. 962

## FRESNO, CAL., October 1st, 1916

### One Mile Dirt Track

Promoter, FRESNO DISTRICT FAIR (C. G. EBERHART, Secretary and Manager)

Referee, L. A. NARES

A. A. A. Representative, E. F. CHEFFINS

Starter, N. R. COOPER; assistant, FRANK HOOD

Chief Timer, E. H. PENDLETON (Electrical Instrument)

Chairman Technical Committee, C. C. KRATZER

Class	Distance	CAR	DRIVER	Time
E under 301 Heat No. 1 Standing Start	10	Stutz Sp..... Boldon-Crosby Sp.. Gordon Sp..... Price Sp..... Studebaker Sp..... Drake Sp..... Buick Sp..... Delage Sp.....	Cooper ..... Bolden ..... Elliott ..... Price (fourth) Roads (fifth) Drake (sixth) Hancock (8 laps) Oldfield (6 laps broken valve)	9:17.6 9:18.0 9:28.2
Heat No. 2 Rolling Start		Stutz Sp..... Boldon-Crosby Sp.. Studebaker Sp..... Gordon Sp.....	Cooper ..... Boldon ..... Roads ..... Elliott (fourth)	9:34.0 9:36.2 9:47.4

Class	Distance	CAR	DRIVER	Time
Heat No. 3 Flying Start		Stutz Sp.....	Cooper .....	9:12.6
		Boldon-Crosby Sp..	Boldon .....	9:15.8
		Price Sp.....	Price .....	9:23.2
		Gordon Sp.....	Elliott (fourth)	
		Drake Sp.....	Drake (fifth)	
		Studebaker Sp.....	Roads (sixth)	
E under 451 Heat No. 1 Standing Start	10	Mercer Sp.....	Hill .....	9:14.8
		Gordon Sp.....	Elliott .....	9:16.4
		Stutz Sp.....	Durant .....	9:21.6
		Price Sp.....	Price (fourth)	
		Stutz Sp.....	Cooper (8 laps, tire)	
		Buick Sp.....	Strachan (5 laps)	
		Gandy Sp.....	Moosie (2 laps)	
Drake Sp.....	Drake (2 laps)			
Heat No. 2 Rolling Start		Stutz Sp.....	Cooper .....	8:49.8
		Stutz Sp.....	Durant .....	9:27.6
		Mercer Sp.....	Hill .....	9:27.8
		Gandy Sp.....	Moosie .....	9:34.6
		Price Sp.....	Price (fifth)	
		Buick Sp.....	Strachan (sixth)	
Drake Sp.....	Drake (seventh)			
Heat No. 3 Flying Start		Stutz Sp.....	Cooper .....	9:14.8
		Stutz Sp.....	Durant .....	9:15.4
		Gandy Sp.....	Moosie .....	9:16.2
		Buick Sp.....	Strachan .....	9:20.8
		Price Sp.....	Price (fifth)	
		Gordon Sp.....	Elliott (sixth)	
Drake Sp.....	Drake (seventh)			

Sanction No. 981

## DODGE CITY MOTOR SPEEDWAY, DODGE CITY, KAN., Oct. 7th, 1916

*Two Mile Dirt Track*

Promoter, DODGE CITY MOTOR SPEEDWAY CORPORATION,  
(J. P. McCULLOM, President)

Referee and A. A. A. Representative, W. S. THOMPSON

Starter, DR. COLE

Timers, ROBERT M. BOTTING, E. C. MINNER

Scorers, W. F. HAMPY, H. S. WARNSHOLDER

Class	Distance	CAR	DRIVER	Time
E under 231	30	Buick Sp.....	Logan .....	30:37.00
		Buick Sp.....	Strickler .....	30:50.00
D	150	Hudson Sp.....	Armstrong .....	2:07.11.00
		DuChesneau Sp....	Brown .....	2:19.30.00
		Buick Sp.....	Strickler (third)	
		Buick Sp.....	Logan (broke con. rod)	



# FAIR GROUNDS TRACK, INDIANA, PENN., Oct. 7th, 1916

*One-half Mile Dirt Track*

Promoter, C. P. GALANOT

Referee and A. A. A. Representative, F. H. ROSBORO

Starter, FRED McCARTHY

Timer, W. H. BARTLEBAUGH

Scorer, C. M. SINGLE

Class	Distance	CAR	DRIVER	Time
Time Trials	1	National Sp.....	J. D. Kerr.....	1:12.00
		Bush Sp.....	F. E. Bush.....	1:14.75
		Kline Sp.....	W. E. Jones.....	1:16.25
		Great Western Sp..	C. M. Heist.....	1:20.50
		Saxon Sp.....	H. E. Wynn.....	1:23.00
		Mercer Sp.....	Jas. E. Ryan.....	1:24.50
		Stutz Sp.....	Geo. J. Halley.....	1:25.00
		H. K. Sp.....	A. C. Halley.....	1:28.00
		Buick Sp.....	E. H. Willetts.....	1:29.50
E 301 and over	3	Bush Sp.....	Bush .....	4:02.50
		Great Western Sp..	Heist .....	4:09.00
		Stutz Sp.....	Geo. J. Halley (third)	
		Buick Sp.....	Willetts (fourth)	
		Kline Sp.....	Jones (out in eliminations)	
		H. K. Sp.....	A. C. Halley (out in eliminations)	
		National Sp.....	Kerr (out in eliminations)	
E under 451	3	Buick Sp.....	Willetts .....	4:10.00
		Stutz Sp.....	Geo. J. Halley.....	4:35.00
		Mercer Sp.....	Kerr .....	
		Saxon Sp.....	Wynn (out 2d lap)	
E 301 and over Flying Start	3	National Sp.....	Kerr .....	4:01.00
		Kline Sp.....	Jones .....	4:05.00
		Bush Sp.....	Bush (third)	
		Great Western Sp..	Heist (out 1st lap)	
		Stutz Sp.....	Geo. J. Halley (out in eliminations)	
		H. K. Sp.....	A. C. Halley (out in eliminations)	
Buick Sp.....	Willetts (out in eliminations)			



# FAIR GROUNDS TRACK, RICHMOND, VA., Oct. 14th, 1916

## One Mile Dirt Track

Promoter, RICHMOND AUTOMOBILE CLUB (E. C. PELOUZE,  
Secretary)

Referee and A. A. A. Representative, DR. BENJ. A. HORD

Starter, DR. LAWRENCE T. PRICE

Timers, B. CARTER, Chief; L. R. PAGE, DR. C. H. EPPS, N. S.  
HAWES

Scorer, E. C. PELOUZE, Chief

Technical Committee, A. L. BOULWARE, W. J. MILLER, DR. R. A.  
NICHOLS

Class	Distance	CAR	DRIVER	Time
Invitation	5	Ford Sp.....	Wm. Booker.....	6:42.25
		Ford Sp.....	Deno .....	6:58.00
		Ford Sp.....	Fred Allen (out 3 miles)	
E 231 and over	5	Kline Sp.....	H. W. Kriner.....	5:58.5
		Kline Sp.....	E. French .....	6:09.0
		Fiat Sp.....	H. L. Shaw.....	6:14.5
		Mercer Sp.....	E. A. Bromm.....	7:02.0
		Buick Sp.....	Openchencki (disqualified)	
D	25	Kline Sp.....	French .....	29:03.4
		Kline Sp.....	Kriner .....	29:05.0
		Buick Sp.....	J. I. Moore.....	31:02.0
		Mercer Sp.....	Bromm (out 6th lap)	
		Fiat Sp.....	Shaw (out 1st lap)	
Economy 4-cyl.	½ gal	Maxwell Sp.....	Bell .....	13¾ miles
		Overland Sp.....	B. Starbuck (disqualified)	
6-cyl.		Oakland Sp.....	C. A. Cook.....	10½ miles
		Chalmers Sp.....	H. E. Morgan.....	8¾ miles
		Buick Sp.....	M. D. Stone.....	7¾ miles
		Chandler Sp.....	Geo. E. Booth.....	7 miles
8-cyl.		Scripps-Booth Sp..	A. E. Donnon, Jr..	11½ miles
		Cadillac Sp.....	C. Shurbridge .....	6¾ miles
Gymkana	¼	Hudson Sp.....	Donnon .....	:24.2
		Cadillac Sp.....	Shurbridge .....	:25.5
		Kline Sp.....	J. A. Kline.....	:26.0
		Maxwell Sp.....	Bell .....	:26.5
		Buick Sp.....	Stone (out)	
		Saxon Sp.....	R. F. Kaehler (out)	
High Gear Slow Race Dealers	¼	King Sp.....	C. Faucuilla.....	10:40
		Kline Sp.....	W. S. Roberts (disq. using brakes)	
		Saxon Sp.....	R. F. Kaehler.....	9:01
		Cadillac Sp.....	Shurbridge .....	5:43
		Pathfinder Sp.....	R. K. Morgan.....	1:11
		Chalmers Sp.....	H. E. Morgan (left track)	
		Overland Sp.....	Starbuck (stalled)	
		Cole Sp.....	Openchencki (stalled)	

Class	Distance	CAR	DRIVER	Time	M.P.H.
Owners		Owen Magnetic Sp.	E. L. Tignor	10:31	
		H. A. L. Sp.	Geo. M. Davis	5:41	
Invitation	3	Ford Sp. No. 2	Booker	3:58	
Fords only		Ford Sp. No. 10	Deno	4:10	
Flying Start		Ford Sp. No. 9	C. T. Rand (out 3d lap)		
		Ford Sp. No. 1	Fred Allen (out 2d lap)		

Sanction No. 995

## FAIR GROUNDS TRACK, BAKERSFIELD, CAL., Oct. 28th, 1916

One Mile Dirt Track

Promoter, KERN COUNTY FAIR ASSOCIATION (PAUL J. C. DERKUM, Race Manager)  
Referee, OWEN R. BIRD  
Starter, FRANK G. HURD

A. A. A. Representative, AL G. WADDELL

Timers, E. H. PENDLETON, Chief; WALLACE O. GATES, JAS. R. DIBBY

Scorers, ROBT. S. WEAVER, F. E. WIDMER, ROWEN F. HALL,  
H. F. HEARD

Class	Distance	CAR	DRIVER	Time
E under 231	25	Drake Sp.	L. E. Drake	24:15.0
		Maxwell Sp.	W. J. Smith	26:57.0
		Studebaker Sp.	R. J. Reese	28:56.4
		Erdsmore Sp.	P. G. Erdsmore	29:31.4
		M. P. Sp.	W. H. Park (flagged)	
		Luard Sp.	L. S. Luard (out 20th lap)	
D	10	Stutz Sp.	Durant	8:44.0
		Smith Sp.	M. C. Moore	8:51.4
		Hudson Sp.	Roads	9:21.6
		Drake Sp.	Drake (finished)	
		National Sp.	T. F. Burke (out 9th lap)	
		Gordon Sp.	Elliott (out 8th lap)	
		McKee Sp.	Felsenthal (out 5th lap) *	
National Sp.	Weldrick (out 3d lap)			
D	10	Bolden-Crosby Sp.	Bolden	8:37.6
		Stutz Sp.	Durant	8:38.2
		Smith Sp.	O. M. Palmer	8:53.4
		Drake Sp.	Drake	9:13.6
		National Sp.	Burke (out 4th lap)	
D	50	Stutz Sp.	Durant	47:38.0
		Duesenberg Sp.	Moosie	49:52.4
		Valdsmar Sp.	Valdsmar	55:02.4
		Maxwell Sp.	Smith	60:04.4
		National Sp.	Burke (finished fifth)	
Smith Sp.	Moore (out 34th lap)			



Class	Distance	CAR	DRIVER	Time
		Drake Sp.....	Drake (out 32d lap)	
		Hudson Sp.....	Roads (out 10th lap)	
		Bolden-Crosby Sp..	Bolden (out 6th lap)	

\* Disqualified taking up too much track.

Sanction No. 998

## FAIR GROUNDS TRACK, CANFIELD, OHIO, Nov. 11th, 1916

### One-half Mile Dirt Track

Promoter, A. W. SMITH  
 Referee and A. A. Representative, F. H. ROSBORO  
 Starter, ART KLEIN  
 Timers, L. LLOYD VAN EPPS, Chief  
 Scorers, R. E. ROBINSON, Chief

Class	Distance	CAR	DRIVER	Time
Time Trials	1	Bush Sp.....	F. E. Bush .....	1:15.4
		National Sp.....	C. M. Heist .....	1:18.2
		Michigan Sp.....	C. E. Fulkerson.....	1:20.0
		Glenwood Sp.....	A. W. Smith.....	1:21.4
		A. C. W. Sp.....	D. Beam .....	1:35.0
Match	3	Glenwood Sp.....	Smith .....	4:10.0
		Michigan Sp.....	Fulkerson .....	4:18.0
E 301 and over	5	National Sp.....	Heist .....	6:18.0
		Bush Sp.....	Bush .....	6:20.0
		A. C. W. Sp.....	Beam .....	6:30.0
D	5	National Sp.....	Heist .....	5:48.5
		Bush Sp.....	Bush .....	5:56.0
		Glenwood Sp.....	Smith .....	6:00.0
		Michigan Sp.....	Fulkerson (out 6th lap)	
		A. C. W. Sp.....	Beam (out 4th lap)	

Sanction No. 985

## PHOENIX, ARIZ., November 18th, 1916

### One Mile Dirt Track

Promoter, ARIZONA STATE FAIR COMMISSION  
 Referee, LYLE ABBOTT  
 Starter, DICK HOLLINGSWORTH  
 Chief Timer, CHAS. H. McARTHUR  
 A. A. A. Representative, GEORGE PURDY BULLARD

No Official Report Received



# BENNINGS RACE TRACK, WASHINGTON, D. C., Nov. 30th, 1916

## One Mile Dirt Track

Promoter, MIDDLE ATLANTIC MOTOR ASSOCIATION (W. L. CARTER, Secretary)

Referee, S. S. GROGAN

Starter, C. ROYCE HOUGH; Assistant, WM. McCANDLESS

A. A. A. Representative, H. C. CHANDLEE

Timers, HOWARD S. FISK, A. O. HUTTERLY, LIEUT. A. VON STEINER

Scorers, MONTE SOHN, HARRY WARD, J. E. CONNOLY, ROY LIVINGSTON

Class	Distance	CAR	DRIVER	Time
E under 231	5	Weightman Sp.....	Gish .....	6:24.6
		Kline Sp.....	French .....	
		Mercer Sp.....	Burbage (did not finish)	
E under 451	5	Weightman Sp.....	Gish .....	6:28.2
		Beaver Bullet.....	Barber .....	6:30.0
		Kline Sp.....	Don Moore .....	6:33.0
		Stutz Sp.....	Dickinson (fourth)	
		Kline Sp.....	French (fifth)	
		Mercer Sp.....	Burbage .....	
		I. C. B. Sp.....	Zwally .....	
		Semmes Sp.....	Gibson .....	
D	15	Weightman Sp.....	Gish .....	18:31.2
		Kline Sp.....	Moore .....	18:38.8
		Stutz Sp.....	Dickinson .....	18:41.0
		Kline Sp.....	French (fourth)	
		Mercer Sp.....	Burbage .....	
		I. C. B. Sp.....	Zwally .....	
		Marq-Buick Sp....	Kessler .....	
Handicap	5	Semmes Sp.....	Gibson .....	45 secs. 7:44.6
		Stutz Sp.....	Dickinson .....	15 secs. 7:59.5
		Kline Sp.....	Moore (third)	
		Weightman Sp.....	Gish (fourth) ...	Scratch
		Kline Sp.....	French (fifth)	
		Marq-Buick Sp....	Kessler .....	

## PHOENIX, ARIZONA, Nov. 30th, 1916

## One Mile Dirt Track

Promoter, JOE V. PROCHASKA

Referee, LYLE ABBOTT

A. A. A. Representative, G. P. BULLARD

Chief Timer and Scorer, F. P. WEBER

Class	Distance	CAR	DRIVER	Time
D—Invitation	100	Stutz Sp.....	Delno .....	1:38:29.25
		S. P. A. Sp.....	Lambert .....	1:42:00.5
		Mercer Sp.....	Meacham .....	1:46:12.0
		Ford Sp.....	Thomason .....	1:49:26.0
		Overland Sp.....	Gladney .....	1:49:40.0
		Mercer Sp.....	Boling (running 97th lap)	
		Pope Sp.....	Thomas (running 94th lap)	
		Marmon Sp.....	Brewer (out 9th lap)	
		Hudson Sp.....	Armstrong (out 7th lap)	

# HILL CLIMBS.

Sanction No. 924

## MONROE STREET HILL CLIMB, SPOKANE, WASH., May 15th, 1916

Distance, 2,139 Feet; Maximum Grade, 17.9 Per Cent; Average Grade,  
7.55 Per Cent.; Elevation, 165 Feet

Promoter, SPOKANE AUTO SHOW (Inland Automobile Assn.)

Referee, HARRY TWITCHELL

A. A. A. Representative, FRANK W. GUILBERT

Starter, GUY RIEGEL

Timers, C. M. HARRIS, JR., GEO. DODSON (Telephonic System)

Technical Committee, D. N. LARSON, C. S. BROWN, M. T. Mc-  
GOLDRICK

Class	Distance	CAR	DRIVER	Time
E 301 and over		Cadillac Sp.....	J. C. Carlton.....	41.4
		Dodge Sp.....	D. R. Riegel.....	42.2
		Buick Sp.....	C. Hill .....	46.0
		Paige Sp.....	C. A. Martin.....	50.4
		Chevrolet Sp.....	L. L. White.....	51.8
		Overland Sp.....	D. F. Bacheller.....	53.2
C 231-300		Chalmers Sp.....	D. E. Logan.....	54.6
		Hudson Sp.....	F. MacDonald .....	36.8
		King Sp.....	P. R. Bleakley.....	38.2
		Haynes Sp.....	Joe F. Stenstrom.....	41.0
		Willys-Knight Sp..	D. F. Bacheller.....	46.6
		Reo Sp.....	H. Alderson .....	56.0
E over 301		Overland Sp.....	D. F. Bacheller.....	58.0
		Hupmobile Sp.....	Twitchell .....	60.2
		Cadillac Sp.....	W. A. Carroll.....	38.2
		Studebaker Sp.....	O. W. Fahey.....	42.0
		Buick Sp.....	H. M. Pentecost.....	42.6
		Cadillac Sp.....	H. M. Eastman.....	42.8
		Paige Sp.....	C. A. Martin.....	50.0
		Franklin Sp.....	S. A. Robertson.....	51.2
Winners of previous events		Jeffrey Sp.....	D. D. Skinner.....	55.2
		Hudson Sp.....	MacDonald .....	37.0
		Cadillac Sp.....	Carroll .....	40.0
	Oakland Sp.....	Carlton .....	41.6	



# COLLEGE HILL CLIMB, ORISKANY FALLS, N. Y., July 22nd, 1916

*Approximate Distance, 7/8 Mile; Maximum Grade, 14 Per Cent.;  
Minimum Grade, 3 Per Cent.; Average Grade, 7 1/4 Per Cent.*

Promoter, AUTOMOBILE CLUB OF UTICA (T. F. FITZPATRICK,  
Chairman Contest Committee)

Referee and A. A. A. Representative, H. H. SYLVESTER

Chief Timer, DR. R. C. TODD

Officials, G. J. GALLARD, DR. R. B. WILSON, M. A. CUNNINGHAM,  
A. A. KIDDER

Class	Distance	CAR	DRIVER	Time
C 161-230		Buick Sp.....	Paul Minnard .....	1:05.0*
		Chevrolet Sp.....	A. F. Ferris.....	1:05.0*
		Chevrolet Sp.....	A. F. Ferris.....	1:09.0
		Saxon Sp.....	F. T. Lombar.....	1:11.0
		Dodge Sp.....	H. W. Skinner.....	1:14.8
		Metz Sp.....	J. H. Conley.....	1:22.0
* Tie run over, Buick winning.				
C 231-300		Chalmers Sp.....	Skinner .....	1:03.0
		Chandler Sp.....	Masters .....	1:05.6
		Hupmobile Sp.....	Hague .....	1:13.0
		Hupmobile Sp.....	Armstrong .....	1:21.4
		Hupmobile Sp.....	Jones .....	1:23.0
C 301-450		Cole Sp.....	Schuette .....	1:13.0
		Stutz Sp.....	Klous .....	1:18.2
C 451-600		Lozier Sp.....	Daymont .....	1:06.0
		Pierce Sp.....	Schutte .....	1:10.0
		Pierce Sp.....	Brown .....	1:57.0
D		Chalmers Sp.....	Skinner .....	1:02.0
		Chevrolet Sp.....	Ferris .....	1:03.0
		Chevrolet Sp.....	Ferris .....	1:05.0
		Chandler Sp.....	Masters .....	1:05.2
		Lozier Sp.....	Daymont .....	1:05.4
		Saxon Sp.....	Lombar .....	1:08.0
		Metz Sp.....	Conley .....	1:09.0
		Dodge Sp.....	Skinner .....	1:10.0
		Hupmobile Sp.....	Hague .....	1:14.0
		Hupmobile Sp.....	Jones .....	1:18.5
		Hupmobile Sp.....	Armstrong .....	1:24.0

## PIKES PEAK HILL CLIMB, PIKES PEAK, Aug. 11th, 1916

*Distance, 12 Miles 2,200 Feet; Maximum Grade, 10½ Per Cent.; Average  
Grade, 7 Per Cent.; Elevation at Start, 9,197 Feet; at Finish,  
14,091 Feet*

Promoter, PIKES PEAK AUTO HIGHWAY CO.  
Referee and A. A. A. Representative, RALPH W. SMITH  
Starter, EUGENE A. SUNDERLIN  
Director of Timing, CHESTER S. RICKER (Electric Timer)

Class	Distance	CAR	DRIVER	Time
E under 231		Chalmers Sp.....	Fred H. Junk.....	23:04.6
		Chalmers Sp.....	Roy Stentz .....	23:29.9
		Grant Sp.....	H. S. Jones.....	26:05.3
		Ford Sp.....	Guy Peterson .....	28:00.3
		Saxon Sp.....	H. A. Wetmore.....	28:43.4
		Ford Sp.....	Knowles .....	29:25.7
		Ford Sp.....	Spangler .....	36:58.8
		Ford Sp.....	Henry (did not finish)	
		Maxwell Sp.....	Worthington (did not finish)	
E under 231		Hudson Sp .....	Mulford .....	18:24.7
		Duesenberg Sp.....	Buzane .....	23:48.4
		Mercer Sp.....	E. Parrish .....	28:31.8
		Delage Sp.....	Oldfield .....	31:38.6
		Hudson Sp.....	Patterson (did not finish)	
	Duesenberg Sp.....	Hughie Hughes (did not fin.)		

### Aug. 12th, 1916

D Penrose Trophy		Romano Sp.....	Rea Lentz .....	20:56.6
		Hudson Sp.....	Mulford .....	21:40.5
		Chalmers Sp.....	Fred H. Junk.....	22:46.7
		Cadillac Sp.....	Harold Brinker.....	22:51.6
		Hudson Sp.....	Hughie Hughes.....	22:55.1
		Cadillac Sp.....	Mortenson .....	23:30.7
		Grant Sp.....	H. S. Jones.....	25:44.0
		Ford Sp.....	Knowles .....	26:20.4
		Ford Sp.....	Guy Peterson.....	26:22.1
		Chalmers Sp.....	Roy Stentz.....	26:28.0
		Studebaker Sp.....	Morgan .....	28:23.1
		Delage Sp.....	Oldfield .....	29:27.0
		Saxon Sp.....	H. A. Wetmore (did not fin.)	
		Ford Sp.....	Henry (did not finish)	
		Pathfinder Sp.....	A. Hughson (did not finish)	
		Mercer Sp.....	E. Parrish (did not finish)	
	Duesenberg Sp.....	Buzane (did not finish)		



## GIANTS' DESPAIR MOUNTAIN HILL CLIMB, WILKES-BARRE, PENN., Oct. 7th, 1916

*Approximate Distance, 6,000 Feet; Rise, 691 Feet; Maximum Grade,  
20.2 Per Cent.; Minimum Grade, 10 Per Cent.; Average  
Grade, 12 Per Cent.*

Promoter, WILKES-BARRE AUTOMOBILE CLUB

Referee, LEO. W. LONG

A. A. A. Representative, P. D. FOLWELL

Starter, PAUL HUYETTE

Timers, A. Z. HUNTINGTON, CHARLES FORVE

Scorers, LANING HARVEY, ALEXANDER DICK

Technical Committee, ARTHUR M. LAYCOCK, Chairman

Class	Distance	CAR	DRIVER	Time
*E under 161		Saxon Sp.....	W. Roberts (did not finish)	
*E under 231		†Maxwell Sp.....	Durham .....	1:50.0
		†Chalmers Sp.....	Junk .....	1:51.6
		Overland Sp.....	D. K. Alsfelt.....	2:13.4
		Oakland Sp.....	F. Smith .....	2:42.2
		Lexington Sp.....	C. J. Rodgers.....	2:56.6
*E under 301		Mercer Sp.....	W. Haynes .....	1:49.0
		†Maxwell Sp.....	Durham .....	1:50.0
		S. S. E. Sp.....	V. J. Emerson .....	2:05.6
		Haynes Sp.....	Seanor .....	2:08.2
		Mercer Sp.....	W. Oliver .....	2:26.0
		W-Knight Sp.....	D. McDermott .....	2:59.6
*E under 451		Packard Sp.....	W. C. Hohl.....	1:44.8
		†Maxwell Sp.....	Durham .....	1:47.2
		H. A. L. Sp.....	Turcott .....	1:48.6
		Mercer Sp.....	W. Haynes .....	1:49.6
		Pathfinder Sp.....	H. Scholler .....	1:54.6
		Winton Sp.....	W. A. Kohl .....	2:51.6
*E under 601		†Maxwell Sp.....	Durham .....	1:45.6
		H. A. L. Sp.....	Turcott .....	1:46.0
		Mercer Sp.....	W. Haynes .....	1:48.0
		Pathfinder Sp.....	H. Scholler .....	1:53.0
E under 301		Chalmers Sp .....	Junk .....	1:45.0
		S. S. E. Sp.....	V. J. Emerson .....	1:59.2
		Haynes Sp.....	Seanor .....	2:05.0
C 301-450		Pathfinder Sp.....	Al Hughson .....	1:47.4
		Stutz Sp.....	Zwally .....	2:20.2
		Crowther-Duryea	J. X. Crawford.....	2:31.8



Class	Distance	CAR	DRIVER	Time
D		Chalmers Sp.....	Junk .....	1:41.0
		H. A. L. Sp.....	Turcott .....	1:45.6
		Pathfinder Sp.....	Al Hughson .....	1:47.0
		Maxwell Sp.....	Durham .....	1:47.2
		Packard Sp.....	T. A. Dalton.....	1:50.2
		S. S. E. Sp.....	V. J. Emerson.....	1:57.4
		Stutz Sp.....	Zwally .....	2:10.0
		Mercer Sp.....	W. Haynes .....	2:15.6
			(tire trouble)	
		Mercer Sp.....	W. Oliver .....	2:30.0
	Crowther-Duryea	Hochreiter .....	2:33.8	
*E under 301 W-B owners		Lexington Sp.....	S. Solnek .....	2:48.0
		Saxon Sp.....	W. Roberts (excused)	
*E 301 and over W-B owners		H. A. L. Sp.....	Kensella .....	1:46.0‡
		Studebaker Sp....	Anseberry .....	2:26.4
Time Trial account tire trouble in Free-for-All		Mercer Sp.....	W. Haynes .....	1:48.4
* Non-Stock, open only to fully equipped touring cars and roadsters, with running boards, fenders, windshield and top removed.				
‡ Stripped and magnetos added; participated through universal consent.				
‡ Disqualified (not owned by citizen of Wilkes-Barre).				

# RELIABILITY CONTESTS.

Sanction No. 941

## CHICAGO TO INDIANAPOLIS AND RETURN, June 22d and 23d, 1916

Promoters, CHICAGO AUTOMOBILE CLUB & CHICAGO ATHLETIC ASSOCIATION.

Referee and A. A. A. Representative, C. G. SINSABAUGH.

### CLASS "E" NON-STOCK GRADE IV., INTER-CLUB RELIABILITY TEAM MATCH

(Ninth yearly event)

CHICAGO ATHLETIC ASSOCIATION.

Total Penalizations 277 Points.

CAR	DRIVER	Penalizations		Total
		First Day	Second Day	
Packard	F. W. Wentworth	5	0	5
Mitchell	W. H. Slepeck	200	5	205
Moon	W. G. Beck	30	32	62
Franklin	F. X. Mudd	0	5	5
Packard	F. A. Hill, Jr.	0	0	0
Marmon	C. R. Forrester	0	0	0
Hudson	Sidney Smith	0	0	0
Packard	S. E. Hibben (Capt.)	0	0	0

### CHICAGO AUTOMOBILE CLUB.

Total Penalizations 605 Points.

Packard	G. F. Ballou	5	0	5
Moline	J. T. Brown	0	200	200
Cole	W. M. Gelderman	0	0	0
Mitchell	A. N. Eastman	0	0	0
Cole	F. E. Lemmert	0	0	0
Packard	H. W. Mersheck	0	0	0
Chandler	E. A. Turnet	0	0	0
Columbia	G. E. Hibben (Capt.)	300	100	400

## CHICAGO TO PEORIA TO CLINTON AND RETURN, October 19th, 20th and 21st, 1916

(Master Drivers' Reliability)

Promoter, CHICAGO AUTOMOBILE CLUB.

Referee and A. A. A. Representative, L. A. HILLMAN.

CAR	DRIVER	Penalties	Cause
Mercer.....	Al Schillo.....	0	
Mercer.....	Wm. Robbins.....	124	Lateness and tire change
Jeffrey.....	John Kercher.....	129	Lateness and stopping.
Hupmobile.....	E. A. Turner.....	180	Lateness, work on ignition and gasoline systems, taking supplies outside of control and hitting chicken.
Pathfinder.....	Wm. M. Gelderman....	1000	Over 3 hours late.
Scripps-Booth.....	B. B. Ayres.....	1000	Over 3 hours late.

NOTE: Account extremely bad road and weather conditions contest was abandoned at Peoria, after first days' run of 196 miles. -

Sanction No. 983

## ST. LOUIS TO KEOKUK AND RETURN, Sept. 23d and 25th, 1916

Distance 383 Miles

Promoter, AUTOMOBILE CLUB OF ST. LOUIS

Referee, GEORGE J. TAUSEY

Starter, EDWARD M. FLESH

Chief Timer, FREDERICK H. SEMPLE

Chairman Technical Committee, S. S. PINGREE

A. A. A. Representative, JAMES HAGERMAN, JR.

Car	Driver	Penalization
CLASS "A" — Owners		
Franklin .....	Adolph H. Conrad.....	7
Stutz .....	Wm. A. Weston.....	15
Hudson .....	C. P. Van Graaferland.....	15
Hudson .....	C. P. Schwaner.....	17
Winton .....	E. F. Wiederholdt.....	39
Cadillac .....	Wm. T. Hill.....	40
Packard .....	V. Chew.....	47
Dorris .....	Fred Claas.....	53
Franklin .....	E. C. Klipstein.....	65
Packard .....	Lucian A. Paule.....	66
Cole .....	Wells L. Church.....	106
Cadillac .....	Wm. H. Muller, Jr.....	293

CLASS "B" — Members (Driven by chauffeurs)

Peerless .....	Nat Appelby.....	24
Hudson .....	Wm. Reppeg.....	500



## 24-HOUR ENDURANCE RUN, Nov. 24th and 25th 1916

Promoter, N. J. AUTOMOBILE &amp; MOTOR CLUB

(Geo. F. Eveland, Secy.)

Referee, W. W. KNOTT.

A. A. A. Representative, W. HARVEY TRABAND, JR.

GRADE II NON-STOCK

Distance, 450 Miles (Approx.).

CAR	DRIVER	Time	Penalizations		Total
			Work		
Oldsmobile.....	T. H. Ball.....	0	0		0
	Thos. McGrath.....				
Studebaker.....	J. B. Rodgers.....	2	0		2
	H. A. Waldron.....				
Lexington.....	Ray Murphy.....	0	3		3
	John Ruane.....				
Oldsmobile.....	C. B. Wyckoff.....	0	8		8
King.....	R. H. Collins.....	8	2		10
Dodge.....	R. D. Chaplin.....	11	0		11
	W. Crassley.....				
Monroe.....	L. J. Goldman.....	68	0		x68
Saxon.....	D. J. Kennedy.....	74	0		74
Saxon.....		20	64		84
Ross.....		0	withdrawn		1000
National.....	Sam'l Schery.....	23	"		1023
	Wm. Morgan.....				
Ford.....	Chas. R. Lynch.....	46	"		1046
Cadillac.....	A. L. Brown.....	203	"		1203
	A. I. Voorhies.....				
Bour-Davis.....	E. N. Smith.....	did not check in	"		
	H. G. Pederson.....				
Hupmobile.....	F. A. Massey.....	" " " "	"		
	E. Meyer.....				

x First in Runabout Division.

CHICAGO TO AURORA, ILL., AND RETURN, October  
7th, 1916

Promoter, CHICAGO AUTOMOBILE CLUB

Referee, E. G. WESTLAKE

Starter, JOHN DeLONG

Class "E"—Non-stock Grade III Inter-Club Reliability Team Match

No official report received

# COMMERCIAL VEHICLE RELIABILITY CONTESTS.

Sanction No. 948

LOS ANGELES TO SAN DIEGO, CAL., July 14th and  
15th, 1916

Promoter, MOTOR TRUCK DEALERS ASSN., OF LOS ANGELES  
(Fred. Pabst, Mgr.)

Referee, HARRY MASON.

A. A. A. Representative, AL G. WADDELL.

Timers, OMER E. LILLY, Chief; K. K. PARKER, C. H. BRANAMAN,  
G. E. O'NEIL.

Starter, DR. B. ROBERT GETTS.

Chief Observer, GEO. M. SCHELL.

Technical Committee, N. W. SMITH, THEO. HOBGOOD.

## CLASS "K"

Distance 136.7 Miles.

TRUCK	DRIVER	Load Carried in Pounds	Consumed Gas Gals.	Penalty Points
Stewart	Fouch	1030	8½	0
Studebaker	Futely	1090	10	0
Vim	Knapp	1102	9¾	0
Vim	Kirkpatrick	1100	10	0
Vim	Lloyd	1200	10½	0
Little Giant	Darin	1590	12	0
G. M. C.	Burris	1670	13¾	*62
Smith Form-a-Truck	Mesiel	2090	8	0
Studebaker	Fortine	2120	13	0
Denby	Pendell	3010	10¾	0
Autocar	Heffner	3150	12	x10
Little Giant	Johnson	3130	14	z38
G. M. C.	Heard	7400	20½	0
Doane	Miller	over 12000	30	0

\* Broken gasolene line.

x Blew out spark plug.

z Worked on motor.

# CERTIFIED TRIALS.

Sanction No. 902

## CERTIFIED TRIAL of Model L. F. STROMBERG CARBURETOR

Promoter, STROMBERG MOTOR DEVICES CO., Chicago, Ill.  
A.A.A. Representative, F. E. Edwards, assisted by L. A. Hillman, member  
of Technical Committee Chicago A. C.

### *Car:*

Ford Model "T" 1915; motor; bore,  $3\frac{3}{4}$  inches; stroke 4 inches;  
Total piston displacement, 176.7 cubic inches.  
Ignition: Ford magneto with four vibrator coils.  
Speedometer: Stewart Model 100, tested and approved.  
Weight of car: Empty, 1625 lbs.; loaded, 2170 lbs.  
Tires: Front, 30 x 3; rear, 30 x  $3\frac{1}{2}$ .  
Passengers: Don Cole (driver) Messrs. Edwards and Hillman.

### *Economy Test:*

Gasoline of  $58\frac{1}{2}$  degrees Baume at 60 degrees F was fed from a  
cylindrical tank having a capacity of slightly over a gallon, placed  
upon the dash and connected directly with carburetor. Fuel meas-  
ured into this tank from a standard gallon measure sealed by the  
City Sealer of the City of Chicago. Quantity: One measured  
gallon.

Test started at 2:35 P.M., April 1st, 1916, at Sheridan Drive in  
Evanston, Illinois, over boulevards, and ended when fuel exhausted  
at 4:40 P.M., on Indianapolis Avenue, in South Chicago. Fan  
belt on car but not operative. Temperature 55 F.

Distance covered: 37.4 miles.

### *Acceleration Test:*

Conducted on Indianapolis Avenue. From standing start car was  
accelerated to 25 M.P.H. in 11.4 seconds.

### *Flexibility Test:*

Car attained a speed of 43 M.P.H. and was driven as slowly as  
7 M.P.H. on high gear.

All of above tests were made without change of carburetor.

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Sanction No. 908

## CERTIFIED SPEED TRIALS HUDSON SUPER-SIX STOCK CHASSIS

Atlantic Beach, Daytona, Florida, April 9th and 10th, 1916.

Promoter, HUDSON MOTOR CAR CO., Detroit, Mich.

A.A.A. Representative and Technical Representative, F. E. Edwards.

Timer: Fred J. Wagner (Warner Timing Instrument).

The car used in the trials was a Hudson Super-Six Stock Chassis, with-  
out fenders, running boards or lamps, fitted with racing body.



The model was registered with the Contest Board as a stock chassis on December 5th, 1915, and the model under test was examined and checked with such registration blank by F. E. Edwards, as Technical Representative of the A.A.A., and found to conform in every particular with the chassis as registered, except in gear ratio.

- Number of cylinders: 6.
- Total piston displacement: 288.6 cubic inches.
- Chassis number: H-380.
- Motor number: 863-C.
- Cylinder bore: 3.501 inches.
- Piston diameter: 3.497 inches.
- Piston clearance: .004 inches.
- Length of connecting rod:  $11\frac{7}{8}$  inches.
- Length of piston: 4 inches.
- Center of wrist pin to top of piston: 2 inches.
- Valve port: 1 13-16 inches.
- Carbureter: Hudson.
- Lubricating system: Circulating splash.
- Lubricating oil used: Veedol, Medium.
- Ignition: Delco.
- Starting and lighting: Delco.
- Gear ratio: 18-47 or 2-11/18 to 1.
- Wheels: Rudge-Whitworth.
- Tires: Silvertown cord, 34 x 4.
- Wheelbase:  $125\frac{3}{4}$  inches.
- Spark plug: Champion AC.

Cams: Identical with blue prints of cams examined at factory.

The course was a one mile straightaway. Each end of the mile was marked by C. M. Rogers, C.E., whose sworn certificate is on file with the Contest Board, as is the printed tape record of the automatically and electrically operated Warner Timing Instrument and the sworn statements of the A.A.A. Representative and the Timer.

Date.	Time.	Trial No.	Tape Record.	Elapsed Time. Seconds.	
April 9th .....	1:14 P.M.	1	11:05.12	36.79	
			11:41.91		
	Driver: Rippingille	1:30 P.M.	2	24:33.10	35.90
				25:09.00	
April 10th .....	1:46 P.M.	3	30:12.46	36.58	
			30:49.04		
	4:00 P.M.	4	36:34.26	36.59	
					37:10.85
April 10th .....	6:47 A.M.	1	4:13.93	35.87	
			4:49.80		
Driver: Mulford	6:59 A.M.	2	45.21	35.81	
			1:21.02		
	7:10 A.M.	3	7:40.27	35.50	
			8:15.77		
	7:35 A.M.	4	29:39.59		
		30:15.02	35.43		
	7:50 A.M.	5	35:58.75	35.11	
			36:33.86		

**CERTIFIED TRIAL OF AER-IN.**

Manufactured by WARE BROTHERS, Chicago, Ill.

A. A. A. Representative F. E. Edwards, assisted by H. A. Tarantous.

*A Test to Determine the Fuel Economy of an Auxiliary Air Device.*

The Aer-in device is a small automatic air valve, spring backed and located in a suitable threaded housing screwed into the intake manifold at a point directly above the mixing chamber of the carbureter.

To properly demonstrate the economy effected by the installation of the device two runs were made over the same course and under the same conditions, in one of which the device was installed and in the other it was not.

The car used was a 1912 Model UD Packard phaeton, equipped with Packard carbureter and Eisemann magneto, driven approximately 20 M. P. H. in each test.

Fuel gasoline of 57½ degrees Baume at 61 degrees F. was fed by gravity from an auxiliary tank with a capacity of slightly over one gallon fastened at the side of the car, and a standard gallon was used in each test.

The test was conducted April 26th, 1916, on the boulevard in Jackson Park, Chicago, and the course followed was practically circular in shape, approximately 2.3 miles in length and comparatively level, with the exception of three slight grades.

The air temperature at the start was 58 F. and at the finish 54 F.

The Warner Auto-Meter used was tested prior to the start and the mileage recorder certified O. K.

No change in carbureter adjustment was made during the tests and the signed statement of Mr. D. J. Nolan, the owner of the car, set forth that the carbureter adjustment was not altered for the test nor for a period of at least five months previous thereto.

	Test No. 1. Without Aer-in Device.	Test No. 2. With Aer-in Device.
Hour of start.....	2:46 P.M.	3:32 P.M.
Hour of finish.....	3:22 P.M.	4:18 P.M.
Time consumed .....	.36 minutes	46 minutes
Total mileage .....	11.9 miles	15.1 miles
		increase 3.2 miles
		increase 26.8 per cent.

Sanction No. 918

**24-HOUR SPEED AND ENDURANCE, CERTIFIED TRIAL**

*Hudson Super-Six Registered Stock Chassis.*

Promoter, HUDSON MOTOR CAR CO.

A. A. A. Representative, C. G. SINSABAUGH

A. A. A. Technical Representative, F. E. EDWARDS

Timers, H. H. KNEPPER, Chief; H. A. TARANTOUS, ALEX. JOHNSTON

Timing by Warner Timing Instrument and Stop Watches

The trial was conducted at the Sheepshead Bay Speedway, New York, May 1st and 2nd, 1916.



The car was driven the entire 24 hours by Ralph Mulford, starting shortly after 6 o'clock P. M. May 1st.

Distance covered .....	1,819.2 miles
Average miles per hour (including stops) .....	75.8
Number of stops .....	16
Duration of stops .....	51 min. 13 secs.
Average miles per hour (excluding stops) .....	78.6
Gallons of gasoline consumed .....	159½
Average miles per gallon .....	11.4

Examination of the motor after the test showed practically no carbon deposit on piston tops, cylinder head or valve seats and working parts were in excellent condition.

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Sanction No. 928

## 24-HOUR NON-STOP MOTOR TEST, MAY 19th and 20th, 1916. CHALMERS 6-30, Driven by DOUGLAS GRAY

Promoter, CHALMERS MOTOR CO., of New York.

A.A.A. Representative, James A. Hemstreet.

The car started from Broadway and 50th Street, New York, May 19th, at 12:32 P.M., was operated over the streets of the City of New York within the legal speed limit, and finished at the starting point at 12:32 P.M., May 20th.

The total distance covered was 358.7 miles, without a stop of the motor.

A total of 147 stops was made by the car, as follows:

No. of Stops.	Duration.	Cause.
143	43 min. 9 sec.	traffic stops
3	15 min. 13 sec.	fuel replenishments
1	2 min. 0 sec.	put up top
147	60 min. 22 sec.	

There was consumed during the 24 hours:

41¼ gallons of gas; 3 quarts of oil; 2 quarts of water.

Each ascent of Abbey Hill was made on high gear and the speed of the car at the crest was from 30 to 36 M.P.H.

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Sanction No. 939

## FOURTEEN-DAY CERTIFIED NON-STOP MOTOR TEST of KING MODEL "E" Eight-Cylinder Seven-Passenger Stock Touring Car.

Sheepshead Bay Speedway, New York, June 15th to 29th, 1916.

A.A.A. Technical Representative, F. E. Edwards, assisted by  
H. A. Tarantous.

Observers: J. Edward Schipper, Alexander Johnson, Alfred T. Loomis.

The car was started at 14 minutes and 36 seconds past noon, June 15th, and was driven day and night until 14 minutes past noon, June 29th.



The total distance covered was 10,848 miles, of which 205 miles was covered on the Long Island Motor Parkway, and en route to and from, on June 24th, between 10:25 A.M. and 7 P.M., on account of utilization of the Speedway that day for other purposes.

The motor was kept running continuously. The car was occupied during the test by driver and mechanic, and 450 lbs. of sand to approximate weight of three additional passengers.

Total mileage: 10,848 miles.

Total number of stops: 160.

Duration of stops: 15hrs., 25 min., 41 secs.

Miles per hour excluding stops: 34.3.

Miles per hour including stops: 32.3.

Fuel consumed: 1,010 gals.

No. of miles per gallon of fuel: 10.75.

Oil consumed: 9.25 gals.

No. of miles per gallon of oil: 1,172.76.

Water consumed: 100 gals. (approx.).

Following the test, the motor was dismantled to determine its Stock Status and was found to be in every respect similar to the car offered for sale to the general public by the distributors, dealers and agents of the King Motor Car Company.

This examination disclosed that there was no perceptible play in any of the motor bearings, roller followers of the push rods and their guides, etc. The cylinder walls and pistons were in excellent condition; wear about .0005 inches. Carbon deposit on piston heads was rather hard and slightly more than 1-16 inch thick.

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*Sanction No. 955*

*Sanction No. 964*

## CERTIFICATION OF STATUS & CERTIFIED SPEED TRIAL PATHFINDER Twelve-Cylinder Stock Car.

### *Car:*

Pathfinder twelve-cylinder, seven passenger STOCK touring car, Number 11166, certified by the American Automobile Association representatives; registered with the Contest Board and registration No. 9 assigned. The car was checked for certification by the following Technical Representatives:

H. A. Tarantous, at New York.

Chester Ricker, at Indianapolis.

Omer E. Lilly, at Los Angeles.

and was found to conform in every particular with the exception that there were only HIGH and REVERSE in gear box and equipment included two muffler cut-outs.

### *Performance:*

This car left San Diego, Calif., on July 3rd, 1916, with only high and reverse gears in the gear box and transmission sealed by Al. G. Waddell, Official Representative of the Contest Board.

Car arrived in New York City on August 1st, at 1:30 P. M.

Car was immediately driven to the Sheepshead Bay Speedway, where a One-Mile Speed Test was held under Official Sanction No. 964. Recorded official time 59.2 seconds, an average of 60.81 miles per hour. Seals on transmission were then examined and found intact and same as sealed in San Diego.

## CERTIFIED TRIAL OF DUPLEX VAPOR INJECTOR SYSTEM

Seven Bridge Road, New Jersey, July 21st, 1916.

Promoter, VAPOR GASOLINE ECONOMIZER COMPANY, New York.  
A. A. A. Representative, H. A. Tarantous, assisted by Alexander Johnson.

### Device:

The Duplex Vapor Injector System consists of two valves connected by metal hose, one attached to the lower end of the radiator overflow pipe and the other screwed into the intake manifold. The former permits the steam collecting in top of radiator above water to be drawn through the overflow pipe into the intake manifold and cylinders, but allows water to escape at bottom of overflow pipe.

### Car:

1912 Ford Touring, Motor No. 322420.  
Bore and Stroke: 3 $\frac{3}{4}$  x 4.  
Carburetor: Holly, with hot air attachment.  
Ignition: Ford magneto.  
Tires, U. S.: Inflation, front, 60 lbs.; rear, 70 lbs.  
Spark Plugs: 2 J-D; 2 Rajah.  
Speedometer: Jones.

Weight: Without passengers, 1,650 lbs; with 4 passengers, 2,250 lbs.

Two tests were conducted over the same course, one with the device installed. Fuel was fed from auxiliary tank on floor boards in front compartment through copper pipe connected with carburetor, and regular feed line disconnected.

The top was folded and down and the windshield halves placed at angle of 45 degrees.

Weather fair; temperature 90 F.; temperature of water in radiator 205 F. General conditions were the same in both tests.

	TEST NO. 1. With Device Installed.	TEST NO. 2. Without Device.
Quantity of fuel.....	2 qts.	2 qts.
Start .....	3:40 P.M.	4:25 P.M.
Distance covered .....	13.3 miles	5.8 miles

The car used in this test was not, on the whole, in very good condition, but the bearings were tight and compression good and equal in all four cylinders.

## CERTIFIED RELIABILITY TRIAL KING EIGHT-CYLINDER STOCK CAR

Certified Trial of a King Stock Car Traveling Continuously Over the Highways from Pittsburgh, Pa., to Milwaukee, Wis., August 14th and 15th, 1916.

*To determine the average amount of gasoline, oil and water consumed per mile under ordinary touring conditions.*

### Car:

King Model "E", Eight-Cylinder Seven-Passenger Stock Touring Car. Car Number 12632. Model registered with the Contest Board. Prior to test, on August 13th, and following test, on August 17th,



car was checked with Stock Certificate of Description on file with the Contest Board and found to conform therewith in every particular, with the exception that a Boyce Moto-Meter and a spotlight were additional equipment.

Motor: 8-cylinder V type; bore 3 inches; stroke 5 inches; total piston displacement 282.7 cubic inches.

Ignition System: Atwater Kent.

Carburetor: Ball and Ball Model DV4; nozzle size 70.

Fuel Feed: Carter gravity tank.

Spark Plugs: Champion-Toledo.

Electric Units: Ward-Leonard.

Cooling: Thermo-syphon; Boyce Moto-Meter indicator.

Tires: Firestone 34 x 4; rear, non-skid.

Oil: Gargoyle Mobiloil "B".

Gasoline: As obtained on road.

Weight: 4,250 lbs. with driver and four passengers.

**Route:**

Pittsburgh to Milwaukee, via Youngstown, Cleveland, Toledo, South Bend and Chicago.

**Controls:**

Before leaving Pittsburgh the following controls were decided upon and fuel obtained at these points: Youngstown, Bedford and Free-mont, Ohio; Bryan and Goshen, Indiana; and Chicago.

**Officials:**

Technical Representative Contest Board, F. E. Edwards, H. A. Tarantous, Assistant.

**Performance:**

Start from Pittsburgh, August 14th, 7:59 A.M..

Arrived at Milwaukee, August 15th, 3:41 P.M.

Speedometer reading at finish: 11,428.

Speedometer reading at start: 10,812.

Total number of miles covered: 616.4.

Time consumed: 31 hours, 42 minutes.

Stops at controls: 6; duration, 2 hours, 50 minutes.

Stops outside controls: 7; duration, 1 hour, 41 minutes.

Average miles per hour including all stops: 19.44.

Average miles per hour excluding all stops: 22.67.

Gasoline consumed: 42 gallons, 7 ounces.

Average miles per gallon of gasoline: 14.658.

Oil consumed: 2.5 quarts (quantity required to fill tanks at finish).

Average miles per gallon of oil: 962.4.

Water consumed: 1 gallon (quantity required to fill radiator at finish.)

Miles per gallon of water: 616.4.

Work done on car: tightened left rear hub cap.

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Sanction No. 973

**CERTIFIED TEST OF 8 CYL. KING ARMORED MOTOR  
CAR**

**New York City to Rock Island (Ill.), Arsenal, August 29th  
to September 6th 1916**

A. A. A. Observers, F. E. Edwards, H. A. Tarantous, Darwin S. Hatch,  
Joseph A. Beals.



**Object:**

To demonstrate ability to travel overland on ordinary roads as found at various rates of speed and to negotiate grades of 5% to 15%.

**Car:**

Bore: 3 inches.  
Stroke: 5 inches.  
Piston Displacement: 283 cubic inches.  
Carburetor: Ball and Ball.  
Ignition: Atwater-Kent.  
Cooling: Thermo-syphon: Moto-Meter.  
Fuel Feed: Carter Gravity Tank. Regular main tank and 2 four-gallon auxiliary tanks used independently.  
Wheelbase: 120 inches.  
Electric Units: Ward Leonard.  
Tires: Firestone (on Houk Wire Wheels) (Rear wheels fitted with dual rims).  
Oil and Gas: As obtained on road.  
Weight: Without load, 5,220 lbs.; with 3 persons, 5,690 lbs.

**Route:**

New York to Pittsburgh over Lincoln Highway; Youngstown, Cleveland, Norwalk, Toledo, South Bend, Chicago, Aurora, Ottawa and Kewanee.

**Summary of Road Conditions:**

Good in Eastern Pennsylvania but difficult mountain climbing further west. Excellent from Pittsburgh to Cleveland. Level and good to Bryan, but from Bryan to South Bend badly cut, and poor condition generally. At La Salle cloudburst made roads almost impassable. Kewanee to Rock Island, fair and level.

Drivers formed good representative crew, though several drove poorly and in one instance improper handling resulted in damage easily avoidable.

Considerable difficulty was encountered with fuel purchased en route containing solid foreign matter.

Distance Traveled: 1,174.5 miles.

Gasoline Consumption: 141.25 gals. (8.31 miles per gal.)

Oil Consumption: 2.50 gals. (470.16 miles per gal.)

Water Consumption: 9.87 gals.

Tires: Original casings; one new tube.

Miles per hour: Excluding stops between night controls, 17.94.

Miles per hour: Including stops between night controls, 13.15.

No. of stops between night controls, 53.

No. of stops at all controls, 14.

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*Sanction No. 976*

**CERTIFIED HILL CLIMBING TRIAL HUPMOBILE  
MODEL "N" STOCK TOURING CAR**

Certified Hill Climbing Test on High Gear of the Hupmobile Model "N"  
Touring Car Used in Touring from Capital to Capital in Each State.

To Demonstrate the Ability of the Car to Climb Fort George Hill, New  
York City, on High Gear.

**Car:**

Hupmobile Model "N" Stock Touring Car, No. 73,986, Motor No. 73,582, model certified and registered with the Contest Board and checked for certification by A.A.A. Technical Representative, J.

Edward Schipper, and found to conform in every particular, with the following exceptions:

Goodyear all-weather tread tires on front wheels, instead of plain tread tires.

Equipped with motor-driven tire pump.

Spotlight mounted on windshield.

Boxes for suitcases carried on running boards.

Warner Lenz headlight glasses.

**Test:**

With a flying start of about 200 yards on Dykeman Street, at the foot of the hill, with gears in high, the climb was completed without shift. The speedometer (which was not officially checked) registered just over 15 M.P.H. when the car crossed the top of the hill. One test only was made.

**Conditions:**

The climb was made August 31st (Thursday), 1916, at 5:30 P.M. Weather clear and no wind. Surface of the hill, composed of well-fitted Belgian Block, was dry. On entering grade driver (C. E. Salisbury), was slightly disturbed by car coming down hill.

At the completion of the test the car was weighed at the White Coal Co., whose scales had been previously checked and balanced. Weight, empty, 3,080 lbs; with driver and observer, as it climbed the hill, 3,400 lbs.

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*Sanction No. 978*

**CERTIFIED FUEL ECONOMY TEST HUPMOBILE  
MODEL "N" STOCK TOURING CAR**

Certified Test of Hupmobile Model "N" Touring Car.  
To Determine Fuel Economy.

**Car:**

Hupmobile Model "N" Five-Passenger Stock Touring Car. Car No. 73,986; Motor No. 73,582.

Bore: 3.75 inches.

Stroke: 5.5 inches.

Total piston displacement: 242.99 cubic inches.

Carburetor: Zenith 36 MM.

Ignition: Atwater-Kent.

Spark Plugs: A. C. Cyco.

Fuel Feed: Gravity.

Weight of Car: Without passengers, 3,305 lbs; with passengers, 3,845 lbs.

Car was examined September 9th and found to conform in all particulars with Stock Certificate of Description on file with Contest Board, with the exception that a spotlight and Goodyear all-weather tread tires were additional optional equipment.

**Officials:**

A.A.A. Technical Representative, F. E. Edwards.

Drivers: C. E. Salisbury and G. L. Lipe.

**Route:**

Start from Capitol Building, Albany, N. Y., 7:41 A.M., September 8th, 1916.

Finish at Buffalo, N. Y., 1:51 P.M., September 9th, 1916.

Via Schenectady, Amsterdam, Palatine Bridge, Little Falls, Mohawk, Utica, Syracuse (Night control; arrived 3:31 P.M. Left September 9th, 5:41 A.M.) Auburn, Seneca Falls, Waterloo, Geneva, Lima, Avon, Leroy, Batavia.



*Conditions:*

September 8th: Rained 4 hours, 47 minutes; roads good but wet and slippery.

September 9th: Fair; roads very good.

*Summary:*

Speedometer readings: Start, 1,615 miles; finish, 1,916 miles.

Distance travelled: 301 miles.

Gasoline consumed: 15 gals., 7 pts. (Fuel as purchased on road; measured with standard gallon measure and graduate).

Oil consumed: 2 qts.; water consumed: 1qt. (approximately).

Average miles per gallon: Gasoline, 18.96; oil, 1,204; water, 602.

Average miles per hour:

Including stops: 1st day, 18:6; 2nd day, 18.9.

Excluding stops: 1st day, 20.3; 2nd day, 22.2.

Number of stops between Controls: 9; duration: 1 hr. 57 min.

Work done on car from start to finish: Clean dirt from bottom of nozzle spray.

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*Sanction No. 984*

**CERTIFIED TEST OF DEVICE To Determine Comparative Economy**

Detroit, Mich., Sept. 21st, 1916.

Promoter, MYLEMAYKER COMPANY, Chicago, Ill.

A.A.A. Technical Representative, F. E. Edwards, assisted by L. A. Hillman, Member of Technical Committee, Chicago Automobile Club.

*Car:*

1917 Ford, Motor No. 1401948.

Carburetor: Holly.

Ignition: Ford magneto and four coils.

Cooling: Thermo-syphon.

Wheelbase: 100 inches.

Tires: Front, Firestone Non-Skid, 30 x 3½; rear, Timesco Non-Skid, 30 x 3½.

Spark Plugs: Champion X.

Fuel: Red Crown Gasoline.

Weight of Car: Without load, 1,672 lbs; with load (4 persons), 2,282 lbs.

Driver: H. C. Cloud.

Passenger: H. Cory.

Top and windshield up.

*Conditions:*

The car was driven to the Ford Assembly Plant and the carburetor adjusted by a Ford Company expert; the regular gasoline line was disconnected and the motor run until gasoline in the carburetor was exhausted. A measured gallon of fuel was then put in a tank fastened to the dash of the car and connected to the carburetor. The car was then run until the fuel was exhausted, at 22.5 miles.

The MyleMayker device was then, in 1 minute, 25 seconds, attached to the air inlet to the carburetor. The needle valve was turned down ⅜ of a turn. The motor was run until fuel in the carburetor was exhausted. A measured gallon of gasoline was put in the tank and the car driven over the same route until the fuel was exhausted at 26.6 miles.



SUMMARY.

	Without MyleMayker	With Mylemayker
Start .....	1:46 P.M.	3:27 P.M.
Finish .....	2:58 P.M.	5.01 P.M.
Miles per hour.....	18.7	17.05 including stop 18.6 excluding stop
Stops .....	None	One of 8 minute's duration, due to air vent in gasoline tank vibrating closed.
Temperature .....	71-70 F.	69-67 F.
Carburetor adjustment... $\frac{7}{8}$ -turn up from seat		$\frac{1}{2}$ -turn up from seat
Distance traveled .....	22.5	26.6
		Increased mileage 4.1 Gain in mileage 18.22%

*Sanction No. 986*

## CERTIFIED TRIAL OF CHURCH GASOLINE FEED SYSTEM

Manufactured by Automatic Carburetor Co., Chicago.

A.A.A. Representative, F. E. Edwards, assisted by Darwin S. Hatch.

A Comparative Test to Determine How Far Fuel Would be Supplied to the Carburetor. Car Equipped With:

- 1st, Vacuum System.
- 2nd, Church Gasoline Feed System.

The car used was a 1915 Mercer Model "22-70", Motor No. 2430, Zenith carburetor, Goodrich cord tires, 34 x 4 $\frac{1}{2}$ , gear ratio, 2.7 to 1. Stock status of car was not checked by A.A.A. Representatives and it may not therefore be referred to as a Stock Car.

The tests were conducted at the two-mile board speedway at Speedway Park, Chicago, September 27th, 1916. Track wet; accuracy of speedometer used was not tested.

TEST NO. 1. Vacuum system used was installed at a service station of its manufacturer. Start at 2:15 P.M. The car was run at a speed of 30 M.P.H. one lap of the two-mile track to fill reserve tank before official start. Standing start. Motor stopped at 3.75 miles and car coasted with clutch in and throttle wide open to starting line where car was stopped. Maximum speed registered on speedometer, 82 M.P.H.

TEST NO. 2. Church Gasoline Feed System used was installed at the track by its manufacturers. Start at 2:38 P.M. Standing start. Maximum speed registered on speedometer, 84 M.P.H. At the end of 10 miles, with throttle wide open, feed being constant and distance covered having no effect upon it, test was terminated. Elapsed time, 7 min. 58.6 sec. Average M.P.H., 75.4.

*Sanction No. 1002*

## CERTIFIED TRIAL OF OSGOOD HEADLIGHT LENZES

*Manufactured by Osgood Lens & Supply Co., Chicago*

A. A. A. Representative, L. A. HILLMAN

The device is a non-glaring prismatic headlight lens.

The test was held at the Chicago Speedway, November 27th, 1916, for

the purpose of determining the elevation, spread and area of beam of light at various distances.

The headlights used were Model 909 of the C. M. Hall Lamp Co., equipped with silver-plated parabolic reflector of 9 inches diameter,  $7\frac{1}{2}$  inches focal radius. Bulbs 15 candle power, 6-7 Volt National Madza,  $2\frac{1}{2}$  ampere. Lenses were  $9\frac{1}{8}$  inches diameter, less  $\frac{3}{8}$  inches plain margin. Battery current used; type 3 L X 9, 6 Volt, 80 ampere hour Exide Battery.

The screen used was of canvas 7 feet high and 65 feet wide. Weather was clear, but sky overcast.

Distance	Spread	Height of Concentrated Rays
50 feet	15 feet	25 inches
75 feet	18 feet	25 inches
150 feet	$35\frac{1}{2}$ feet	24 inches
250 feet	60 feet	Rays blended with reflected light.

In a test on the road at a distance of 1,800 feet there was still considerable strength of light.

Sanction No. 1003

## CERTIFIED TRIAL OF THE WILMO MANIFOLD

*Manufactured by Gillette Motor Co., Mishawaka, Indiana*

A. A. A. Representative, L. A. HILLMAN

The device is a one-piece gray iron casting for L head motors, forming a combination intake and exhaust manifold, the two separated by an interior wall cast integral.

The test was held over the streets of Mishawaka, December 4th, 1916, and its purpose was to determine the comparative mileage of cars equipped with the Wilmo Manifold as against the standard factory equipment of separate manifolds for intake and exhaust.

In making the tests road, weather and other conditions were as identical as possible; the cars used were borrowed from private owners and had covered approximately the mileages indicated, and were driven 20 M. P. H. in all tests.

One half gallon of fuel was used in each test, being fed by gravity from an auxiliary one-gallon tank attached high to the side of the car and connected directly with carburetor, all regular connections being disconnected.

Gasoline was used as fuel in all tests but one, when a mixture of half gasoline and half kerosene was utilized. At 60 degrees F. Gasoline tested 56 degrees Baume; kerosene  $42\frac{1}{4}$  degrees and half and half mixture  $49\frac{1}{2}$  degrees.

Each of the three cars were tested, first with regular equipment and then with Wilmo Manifold, the change consuming about 30 minutes in each instance.

FIRST SERIES, Tests Nos. 1, 2 and 3. The car used was a Ford (20,000 miles) without top or windshield, equipped with Holley carburetor of standard Ford type. Weight of car: 1,895 pounds, with driver, 2 passengers and supplies.



	Regular Equipment	Wilmo Manifold Equipment
Duration of test.....	30 min.	37 min. *40 min.
Acceleration 5 to 25 MPH.....	17-2/5 secs.	16 secs. *17-2/5 secs.
Mileage per 1/2 gallon.....	9.8	14.0 *13.3
		increase 4.2 miles
		or 42.86%
SECOND SERIES, Tests Nos. 4 and 5. The car used was a 6-cyl. Studebaker (7,600 miles), with top, windshield and side curtains up, equipped with Model R Schebler carburetor. Weight of car: 3,570 pounds, with driver, two passengers and supplies.		
Duration of test.....	13 min.	20 min.
Acceleration 5 to 25 MPH.....	14 secs.	16-1/5 secs.
Mileage per 1/2 gallon.....	5.3	8.2
		increase 2.9 miles
		or 54.72%
THIRD SERIES, Tests Nos. 6 and 7. The car used was a 4-cyl. Studebaker (7,300 miles), with top, windshield and side curtains up, equipped with Model R Schebler carburetor. Weight of car: 3,290 pounds, with driver, one passenger and supplies.		
Duration of test.....	16 min.	21 min.
Acceleration 5 to 25 MPH.....	16 secs.	16-3/5 secs.
Mileage per 1/2 gallon.....	5.5	7.4
		increase 1.9 miles
		or 34.54%
*Fuel, half and half. Motor first heated by running on gasoline before starting with mixture gasoline and kerosene.		

Sanction No. 1004

## 1,000 MILE MOTOR NON-STOP HIGH-GEAR TEST. 1917 DORT MODEL 9 STOCK CAR

Promoter, LEACH MOTOR CAR CO., Los Angeles, Cal.

-A- A. A. Representative, AL. G. WADDELL

A. A. A. Technical Representative, GEO. F. STEPHENSON

Drivers, WM. FITZGERALD, W. B. FELIX, WM. J. HEBERT

Official Observers, W. G. STIPE, H. E. RILEY, F. J. COPPLE

The route traveled included San Bernardino, Riverside, Oceanside, San Diego, Perris, Santa Monica and Santa Barbara.

The test started at 2:45 P. M., December 5th, and terminated voluntarily at 2:45 P. M., December 7th.

The motor ran continuously for the 48 hours and the entire distance of 1,000.2 miles was covered on high gear.

Total number of car stops.....	10
Duration of car stops.....	2 hrs. 20 min.
Average M. P. H., including stops.....	20.84
Average M. P. H., excluding stops.....	21.90
Gasoline consumed, in gallons.....	55
Average miles per gallon.....	18.18
Oil consumed, in pints.....	9
Average miles per pint.....	111.1
Water consumed, in quarts.....	10

# 1916 REGISTERED DRIVERS.

(A—Indicates Amateurs.)

No.	Name	No.	Name
156	Adams, George W.	225	Bergdoll, Grover C.
587	Aguirre, Louis R.	64	Berube, Wilfred
211	Ainslie, Geo. J.	537	Biehn, Jerome
316	Aitken, John D.	197	Biggy, R. I.
366	Alderson, Gale	331	Bigler, R. C.
123	Alderson, Herb C.	526	Blacker, J. H.
266	Alexander, Harold F.	375	Blair, Nello
272	Alexander, Jas. H.	479	Bolden, W. A.
516	Allen, F. R.	568	Boling, John R.
359	Allen, Scott E.	515	Booker, W.
22	Alley, Tom	591	Bowman, C. E.
388	Allyn, H. C.	592	Bowyer, Shadwell S. H.
570	Anderson, Dave	241	Boyer, Jos., Jr.
324	Anderson, Gil	14	Bragg, Caleb S.
411	Andrus, Jas. H.	565	Branum, Clyde
348	Antill, B. F.	79	Breitenbach, J. M.
16	Applegate, Otto	548	Brewer, Tom
444	Armentrout, Dale M.	396	Brink, L. P.
208	Armitage, George V.	290	Brinker, H. S.
153	Armstrong, C. H.	102	Britt, M. S.
508	Armstrong, Russell	387	Broker, Leo
148	Arnold, Lloyd E.	504	Bromm, E. A.
274	Aubry, Ulysses	234	Brooks, Wm. Henry
282	Aulert, Bob O.	98	Brown, Burton
470	Austin, A. L.	204	Brown, D. E.
		106	Brown, Walter M.
433	Bailey, Burton	400	Brown, W. W.
250	Ball, Guy M.	218	Buchanan, Ray D.
294	Ball, Thos. H.	216	Buckman, C. H.
168	Banovszky, L. M. Biro	71	Burguson, Wm.
364	Barber, I. C.	258	Burke, Sam. W.
346	Barndoll, Win. J.	358	Burke, Thomas Frank
371	Barsby, T. F.	10	Burman, Bob
248	Basso, Dominick	78	Burt, Andy
575	Bastta, E. S.	455	Bush, F. E.
499	Bates, R. D.	188	Bushey, Eli Jack
454	Bauer, E. H.	381	Butters, Wm. A.
150	Beach, Chas. S.	325	Buzane, Geo.
427	Beam, De Witt	276	Byrnes, James
404	Beck, Geo. C.		
386	Becker, Jesse	129	Cadwell, A. A.
4A	Beery, Wallace	394	Camp, P. J.
583	Beery, Wallace	252	Campbell, F. M.
279	Bell, Frank G.	569	Carminati, John
426	Bell, Geo. Harold	111	Carr, Jack Gordon
521	Bellamy, Walter J.	339	Carter, Clyde A.
403	Belshaw, R. C.	525	Case, Jud E.
57	Benedict, James A.	3	Chandler, Billy
556	Bennett, Ernest F.	38	Chevrolet, Arthur
61	Bennett, R. A.	244	Chevrolet, Gaston L.



No.	Name	No.	Name
36	Chevrolet, Louis	238	Duryea, A.
376	Choate, A. M.	412	Dusoevoir, Julius
268	Christiaens, Joseph	88	Dutton, R.
193	Clark, Maurice		
297	Clergy, Louis	113	Edwards, J. Paulding
368	Cody, Frank W.	178	Eisner, Albert J.
210	Collins, H. M.	172	Elliott, Frank R.
196	Comer, Fred	510	Emerson, Victor F.
328	Conner, R. P.	222	Erdman, P. J.
8	Cooper, Earl	389	Estabrook, A. V.
567	Cord, Errett L.	495	Evans, Bob
242	Cordy, S. W.	149	Fasulo, Louis
53	Craig, John M.	379	Feichtinger, Harry C.
82	Crane, L. S.	584	Felsenthal, Louis L.
356	Crawford, B. M.	326	Fetterman, I. P.
539	Crawford, John	423	Fetterman, N. P.
190	Croninger, L. Dow	144	Fielding, Romaine
108	Crook, John W.	333	Fields, Wm. L.
161	Crosby, J. H.	259	Fisher, Harry D.
		536	Fisher, R.
237	Daiber, Walter	269	Flynn, Gregory
81	D'Alene, E. W.	349	Forbes, F. V.
199	Dasbach, Raymond G.	502	Fox, John
435	Dauray, Gustave	155	Franchi, Aldo
361	Davenport, Fred	201	Francis, Arthur E.
490	Davidson, Frank E.	367	Francis, Roy N.
298	Davis, Roy	34	Fraser, Thomas C.
588	Davis, Wilton	445	Frazier, W. L.
101	Dawson, W. E.	460	French, E.
3A	Dechault, Ashton	110	Fridaker, A. B.
288	Debolt, M. T.	185	Friend, Cliff H.
280	DeFea, Adam J.	473	Fulkerson, Karl E.
572	Deighmiller, John H.	407	Fulwiler, A. W.
277	Delaney, John J., Jr.		
191	Delno, R. H.	76	Gable, Jack
532	Deno, Thomas	545	Galanot, C. P.
1	DePalma, Ralph	321	Galvin, Frank
26	DePalma, John	135	Gandy, Lou
230	Devigne, Jules	466	Gardner, Geo. B.
267	Devine, W. F.	103	Garfield, Jay J.
176	Devlin, Chas. J.	132	Gasser, L.
29	DeVore, Earl	43	Gates, Ivan R.
46	Dickinson, Jos. W.	169	Giblin, Wm. J.
195	Dochterman, Fred W.	286	Gibson, F.
486	Dolan, Geo.	295	Giddings, Chas. E., Jr.
485	Donohoe, Irvin T.	453	Gifford, Roland C.
409	Downs, Alton	385	Gilbert, Glenn
72	Doyle, L. G.	229	Gilhooly, R. C.
391	Drake, L. E.	494	Giovannoni, C. N.
390	Drake, L. P.	481	Gish, D. B.
94	Druecker, Robt. G.	585	Gladney, Albert E.
240	DuChesneau, C. F.	121	Godfrey, H. R.
345	Duke, Royal A.	531	Gooch, Frank
5	Durant, R. C.	261	Good, Frank B.
278	Durham, Ben F.	342	Gore, R. E.

No.	Name	No.	Name
341	Gouirand, Rene	73	Jessop, G. C.
54	Grady, Will A.	39	Jewett, Chad. W.
136	Graham, Jack G.	221	Johnson, Arthur H.
543	Granard, Frank	415	Johnson, C. W.
133	Graver, Oscar R.	107	Johnson, E. A. Orme
1A	Gray, Coleman M.	164	Johnson, Henry L.
491	Gray, J. D. M.	538	Johnson, Jim
2A	Gray, John F.	166	Johnson, J. W.
581	Griffith, Beverly	395	Johnson, Lewis H.
311	Gunning, Lee E.	151	Johnson, W. H. Orme
280	Hadick, Peter	401	Jones, Buddy
405	Hahn, Harold	547	Jones, Chas. Scott
87	Haibe, O. F.	449	Jones, Henry Swift
489	Haines, Walter S.	67	Jones, T. C.
338	Hale, John D.	456	Jones, Wilbert B.
517	Halls, A. S.	350	Jordon, F. S.
471	Halley, A. C.	418	Junk, Fred H.
498	Halley, George J.		
465	Hambach, Ernest	369	Kaster, E. M.
179	Hancock, G. R.	344	Kaufman, Chester
5A	Hansen, Arthur	127	Kelly, Raymond J.
488	Hardwicke, Harold C.	522	Kerr, Arthur N.
337	Harrington, C.	496	Kerr, J. D.
131	Hartman, Harry	483	Kessler, Wm. H.
487	Haupt, Wm. E.	167	Kincaid, Archie S.
428	Hazen, Raymond	332	Kittle, J. R.
327	Heacox, Chas. C.	310	Klein, Arthur H.
469	Heist, C. M.	354	Klein, C. R.
145	Henderson, Pete	451	Knowles, E. H.
437	Henderson, Samuel	146	Krause, Joe F.
303	Henning, Otto	503	Kriner, H. W.
474	Henry, Walter	340	Krueger, H.
189	Hickox, Arthur B.	158	Kurrie, Robt. B.
194	Hill, George		
184	Hines, B. G.	177	LaDuke, E. M.
551	Hinton, Jack	65	Lambert, Percy M.
406	Hodgdon, Elmer S.	579	Lambert, R. E.
232	Hogan, Dan F., Jr.	109	Lanahan, Charles M.
357	Horsman, Harry D.	119	Langdon, J. D.
420	Hudoc, M. J.	566	Larison, Frank
157	Hughes, Hughie	448	LaRue, Harold E.
417	Hughson, Alva	370	Latta, C. W.
140	Hunt, Clyde Aldy	128	Lawrence, Harry
365	Hursh, F. L.	4	LeCain, Jack
254	Hutson, Chas. P.	205	Lechliden, Frank M.
296	Hutton, J. W.	497	Lemon, Oliver A.
		142	Lentz, Rea D.
464	Ingalls, Howard D.	329	Leonard, Harold C.
519	Ismer, Ernest	116	Lewis, Bob, Jr.
374	Iverson, Emil Oliver	2	Lewis, David N.
		284	Lewis, W. Gordon
63	Jackson, R. D.	130	Leybold, John
58	Jackson, Earl M.	439	Lightner, F. B.
580	Jackson, Lewis	15	Limberg, Carl
27	Janette, Tony	213	Lloyd, Bert



No.	Name	No.	Name
509	Logan, Walter W.	139	Moosie, M. J.
236	Longchamps, Ernest J.	475	Morgan, C. C.
271	Longchamps, Walter W.	314	Morris, Gaston C.
175	Love, J. Calvin	434	Mortenson, Clarence W.
100	MacBride, Milton F.	446	Morton, W. D.
91	McCarthy, Fred	9	Mulford, Ralph K.
147	McClain, A. D.	143	Muller, Wm. J.
398	McCleary, Richard C.	382	Murphy, Arthur
378	McClure, G. W.	482	Myers, Harry D.
80	McCord, H. E.	224	Nelson, Burt G.
336	McCulla, Wm. R.	323	Nelson, Joe
542	McDonald, George A.	501	Nelson, L. M.
262	McElwee, W. E.	492	Newgard, Barney
544	McFarland, Chas. W.	37	Newhouse, Claude R.
104	McGoldrick, E. A.	408	Noreen, Allen
272	McHugh, Frank	126	North, Henry
138	MacIlwaine, C. R.	281	Nottingham, J. E.
186	McKee, S. A.	436	O'Brien, Harry F.
17	McKelvy, T. M.	419	O'Connors, LeRoy
90	McKerall, W. Bruce	69	O'Donnell, Edward
198	McKone, Leo J.	285	Ogdon, Wm. B., Jr.
539	McMullin, H. A.	301	Ogren, Hugo W.
586	McNabb, W. R.	51	Oldfield, Barney
335	McNay, Harry W.	226	Orndorff, Harry C.
203	Mahoney, Paul S.	559	Orr, Edgar A.
227	Main, Elmer C.	62	Ostewig, S.
97	Malcolm, H. L.	235	Packard, Kirbe W.
442	Mansfield, Joseph E.	223	Pallotti, Roxie A.
512	Marcus, Samuel	200	Palmer, Oral M.
55	Marston, Jack	219	Park, J. D.
291	Martin, Jack	527	Park, W. H.
137	Mason, John F., Jr.	351	Parker, C. R.
546	Mason, J. W.	28	Parker, H. K.
330	Massecar, Roy	48	Parsons, Jim
576	Meacham, Roy	92	Patrick, G. F.
574	Medler, Hoyt	431	Patterson, A. H.
363	Melaun, W. R.	540	Patterson, R. W.
524	Melcher, Alfred Amos	180	Peio, Louis
246	Melcher, Walter	393	Pelletier, George A.
31	Merz, Chas. C.	564	Pelton, Floyd
181	Messer, Nat T.	441	Pembroke, Percy S.
443	Meyer, Henry A.	112	Pentecost, F. M.
429	Meyer, Herbert E.	582	Perry, Chas. B.
416	Meyer, James A.	505	Peroy, Rene
589	Miller, Chas. G.	476	Peterson, Guy
171	Miller, Earl Ray	478	Pontius, J. J.
560	Miller, Hugh B.	118	Porter, H. K.
300	Milton, Thomas	52	Powell, Nicholas M.
377	Mohr, C. O.	165	Price, S. L.
182	Mohler, G. J.	114	Prochaska, Carroll W.
413	Monahon, Wilmer	206	Puissegur, Ray
159	Moore, Bob	33	Pullen, Eddie
353	Moore, Don		
523	Moore, J. I.		

No.	Name	No.	Name
160	Quinn, Chas. J.	231	Soules, Alton E.
207	Ralston, Frederick J.	467	Spangler, Isadore
513	Rand, C. T.	50	Speaker, Chas.
163	Rathburn, E. L.	59	Stamm, Peter G.
68	Rawlings, Edward E.	283	Standard, W. L.
528	Reese, Raymond J.	352	Stanley, Homer
264	Reich, Fred	215	Stecker, Eugene
141	Resta, Dario	96	Steele, Chas. N.
251	Rick, Edward L.	373	Stentz, Roy A.
6	Rickenbacher, E. V.	7	Stephenson, G. F.
265	Riley, L. F.	56	Stevens, F. Paul
458	Ripple, Frank M.	173	Stewart, Roy R.
249	Roads, Clyde	430	Stewart, Stanley
459	Robinson, H. L.	319	Stone, Monte
23	Rogers, Chas. L.	115	Stone, William
553	Rolfe, H. J.	209	Strachan, Herbert M.
13	Rollins, Robert Ratcliff	89	Strickler, Jake
25	Rooney, Thomas	174	Stringer, Mel
317	Roush, Chas. L.	355	Stuart, Arthur J.
49	Ruckstell, Glover E.	253	Stutzman, N. D.
120	Ruddy, Geo. W.	125	Swain, Melvin M.
35	Russell, Robert G.	20	Taaffe, R. A.
507	Ryan, James E.	257	Tate, G. G.
275	Ryan, Joseph J.	571	Taylor, Arthur L.
95	Ryder, Chester W.	399	Taylor, Mansel
243	Sartori, Paul	202	Taylor, W. E.
558	Sawaya, Geo. A.	85	Teel, E. M.
402	Schlicht, J. L.	562	Temple, Harry
477	Schneider, Ernest	21	Tetzlaff, Teddy
450	Scholler, Henry A.	270	Theobald, George T.
552	Schroeder, Fritz	447	Thomas, Carl C.
18	Schwartz, J. C.	343	Thomas, Fred E.
468	Schwartz, Phil	549	Thomas, Glenn H.
40	Schwarzenberger, Frank J.	577	Thomas, Jas. B.
318	Scott, C. W.	47	Thomas, Joe
228	Scott, Harry A.	93	Thomas, Roy W.
60	Seanor, F. M.	554	Thomason, Pete
292	Shambaugh, Chas.	313	Thompson, Chas. W.
289	Sharman, E. A.	347	Thompson, J. A.
518	Shaw, Harry Lewis	245	Trost, Howard S.
293	Sherman, Earl H.	320	Tucker, George R.
217	Shobe, V. I.	529	Tunis, F. A.
124	Shockley, Clarence	493	Turcott, John
573	Shoff, Robert M.	534	Tyra, W. A.
561	Simon, Geo.	152	Uhl, Edwin
563	Slankard, Chas. H.	11	Ulbricht, Richard Heinie, Jr.
541	Smith, A. B.	12	Vail, Ira M. G.
410	Smith, Harold P.	523	Valdsmar, Oscar
372	Smith, P. J.	256	Veltz, Harry
555	Smith, Robert L.	122	Vincent, J. G.
287	Smith, Walter J.	260	Vogt, Guy S.
511	Snider, Frank J.	117	Waite, Roy J.
383	Sorenson, M.		



No.	Name	No.	Name
233	Walden, A. E.	77	White, Joe
397	Waltman, Ray	550	Wilberg, Edward D.
192	Warner, H. E.	170	Wilcox, Clement B.
440	Warren, Howard C.	315	Wilcox, Howard S.
75	Waterman, E. S.	578	Wilkey, B. Taylor
41	Watson, J. B. (Bert)	457	Willetts, Elwood H.
360	Watson, John F.	422	Williams, C. M.
154	Weber, Henry, Jr.	590	Williams, I. J.
105	Wehr, Rudolph	134	Wilson, O. W.
162	Weightman, Wm.	247	Woltmann, Fred
506	Weir, Alonzo	214	Womack, Whyte
414	Weir, James	480	Wright, Harold E.
392	Weldrick, Chas B.	452	Wynn, Howard E.
557	Wells, William Harold	484	Wynne, John S.
99	Wenz, Frank W.		
212	Wersen, Alfred	334	Yost, Edmund G.
362	Wetmore, H. A.		
24	Whalen, Neil	514	Zwally, E. L.

# 1916 REGISTERED MECHANICIANS

No.	Name	No.	Name
207	Abrahamson, H.	103	Christiaens, Armand
33	Adams, Emmanuel S.	366	Clark, H. D.
292	Alla, Fayette	276	Claus, W. M.
15	Allen, Leon B.	201	Colombo, Dan
73	Ambrose, Louis	27	Cone, George F.
261	Anderson, Gilbert C.	28	Conner, R. P.
237	Ansbaugh, Russel	120	Conway, Thomas Alphonus
58	Archer, Paul Leslie	348	Cooper, Roy
137	Arnold, Marion T.	319	Courdway, Harry F.
337	Ausburn, C. F.	44	Cox, G. H.
255	Austrow, Walter Owen	348	Cross, Eugene
62	Bahr, Arthur L.	134	Dahnke, Robert
250	Bailey, Guy L.	326	Darragh, Wm. G.
313	Bailey, H. F.	123	Dasbach, L. L.
180	Baldini, George	278	Dauids, Arthur E.
339	Ballinger, Roy	151	Davidson, Jay T.
101	Baranzelli, A. Mario	165	Davis, Floyd
9	Barber, J. G.	294	De Cota, Clement
102	Barnes, Harry D.	32	Debolt, M. T.
138	Becker, Maurice	213	Deck, Jess
99	Bellocchio, Charles	129	DeConstant, Frank
343	Bennett, Robert J.	243	DeJeonett, Jean
257	Bigley, J. P.	268	Delno, George
104	Bill, Frank A.	247	Damarin, F. L.
285	Blondefield, J. N.	283	Detter, Lee
71	Bloomberg, Otto	182	Devaney, Michael
148	Boggio, Guido	21	Diebold, Karl
210	Bond, Thos.	56	Diehl, Geo. E.
325	Bonham, Harry F.	88	DiFiore, Domenic A.
7	Booth, J.	31	Doherty, Charles F.
189	Borba, Manuel	45	Downs, J. Sexton
192	Brant, W. A.	177	Dryer, Geo. L.
79	Brett, Riley J.	46	DuChesneau, C. F.
365	Brewster, Dan N.	121	Duffield, J. E.
346	Brock, Milo	161	Duke, Paul E.
353	Brown, E. A.	291	Dumar, W. M.
194	Brown, Ernest M.	258	Dunkel, E.
281	Burkhardt, E. J.		
124	Burkwest, Leonard	85	Earheart, J. V.
212	Burt, John Blair	11	Eccles, L. D.
286	Bush, Earl	191	Eck, Geo.
		92	Ede, George D.
186	Callander, M. E.	139	Edwards, Bert B.
223	Carey, James J.	29	Edwards, James A.
48	Carlitz, Adolph K.	363	Edwards, J. M.
78	Carpezzi, Leo	111	Elsner, Chas. A.
183	Carter, Jess (J. R.)	242	Emerick, Elmer E.
173	Cavanaugh, Lawrence E.	81	Engelhard, A.
217	Chaplin, Fred D.	263	Erdman, Paul J.



No.	Name	No.	Name
211	Esch, J.	275	Higgins, Harry A.
260	Evans, Humphrey S.	232	Higgy, Frank
171	Eveland, Roy	199	Hitke, Kurt
225	Ewan, C. M.	279	Hitlich, Ralph
		115	Hobday, V. P.
84	Farr, Roy C.	284	Homan, Clayton H.
141	Feeney, Frank J.	157	Hopkins, Fred E.
362	Felsenthal, Jack	119	Hulle, J. R.
91	Felsenthal, Louis L.		
51	Fields, F. H.	66	Jackson, Harry
265	Fitzsimmons, R. S.	93	Jackson, Lewis
227	Foland, L. R.	360	Jacoby, H. W.
226	Foley, J. K.	154	Johnson, Joseph K.
240	Foote, Geo. A.	355	Johnson, M. W.
176	Forbes, Walter	184	Johnson, Walter E.
198	Fosno, Ernie	170	Jones, Harry H.
90	Fountaine, Louis	218	Jones, Richard E.
287	Fowler, Stanley R.	89	Jurato, Jack
335	Frazier, Frederick W.		
75	Frey, Geo.	105	Kalensky, Louis
300	Frey, Robert	63	Karansas, Nick
42	Frith, Frank N.	159	Kennedy, Daniel J.
230	Frye, Russell L.	37	Kientsch, Harry H.
72	Furrey, Thomas E.	324	Kilgore, Joe
		49	King, Patrick E.
344	Gaetjens, Chas. A.	219	Kirk, H. J.
256	Gardner, Ernest	196	Klingler, Chas.
68	Gelston, Ray	163	Klingler, Lawrence
61	Ghianda, John	333	Knapp, Rupert
168	Goetz, Harry	135	Koffer, A. E.
316	Gohlke, Paul F.	135	Kramling, John C.
178	Goldbaum, Charles	86	Kriplen, Ralph
221	Gordon, John B.	106	Kuhn, E. Longe
270	Granard, Frank		
14	Gronbeck, Harry F., Jr.	358	Lambert, R. E.
107	Grundmann, Wm. R.	208	Larimor, Jas. W.
251	Gunderson, Michael	112	Latta, V. C.
		267	Lazano, Solano
220	Haas, R. W.	172	LeCocq, Ted
204	Haines, R. H.	196	Lee, James B.
322	Hanley, Frank J.	5	Leeburn, Leo. J.
43	Hanson, Chester C.	233	Le Ray, Joseph
317	Harkey, H. B.	126	Lightner, F. B.
229	Harrington, John B.	53	Lindsey, Ray Edward
357	Hatfield, Judge	282	Logan, Frank
130	Haven, John H.	109	Ludeman, Louis H.
4	Haviland, George F.	249	Lum, Harry W.
70	Hawkins, Harry E.	289	Lunt, Samuel M.
295	Healy, T. M.		
197	Heinz, Lionel R.	146	McAlister, Jas.
100	Hendel, Earl C.	65	McAuley, Joseph H.
122	Henderson, John D.	215	McClure, Warren A.
241	Hennessey, George	245	McCoy, John
156	Herold, Howard M.	76	McDonald, Geo. C.
40	Hickey, Frank A.	290	McDonald, Russell

No.	Name	No.	Name
47	McGrath, Harry E.	347	Phillips, Douglas
2	McGraw, Victor L.	340	Phillips, Pat.
323	McLean, Ray	185	Platt, Frank
298	McMullin, W. F.	6	Porter, Thos. H.
311	McMurtry, L. B. Jr.	238	Price, Geo. M.
96	McNair, Wm.	181	Putnam, J. W.
273	McWhirter, Eugene		
288	MacClain, Joseph	87	Quicksell, Clarence
164	Magee, Lester A.		
12	Main, E. Emarson	297	Rank, Lawrence
162	Maley, Robt.	338	Ray, A.
19	Manzel, Geo. E.	153	Redmond, Chas. J.
254	Marquette, F. E.	18	Reynolds, Stephen B.
266	Marr, Russell G.	330	Richmond, Frank T.
342	Martinez, David M.	222	Ripple, Frank M.
69	Marty, E. C.	98	Roberts, Perry B., Jr.
299	Mason, J. W.	179	Roberts, Robert C.
309	May, Rollin W.	332	Robinson, P. W.
341	Meacham, Roy	1	Rogers, Manly C.
39	Melcher, Walter	274	Rokee, John
224	Messer, W. C.	136	Ronco, Maurice
166	Metz, Roy F.	231	Rosengreen, H. E.
125	Michaelis, Fred	95	Rous, Lucien
74	Miller, Edward F.	321	Ruby, Will
239	Milnor, Paul C.	262	Rudolph, Frederick William
190	Miltz, Herbert J.		
206	Moar, Edgerton	269	Safford, Edwin W.
10	Moody, Joseph	132	Salmon, Wm.
155	Morris, M. C.	336	Sarles, R. C.
246	Morris, Sam C.	158	Scheets, Frank T.
67	Muller, Harry	205	Schneider, E. J.
149	Murphy, Geo. L.	38	Schneider, Max
83	Murphy, James A.	55	Schrader, Erich
350	Musich, Eddie	35	Schryver, Arthur
228	Myer, Fred C.	23	Schwass, William N.
		8	Seatsema, Cornelius
307	Nash, E. L.	169	Shank, Chas. H., Jr.
52	Nauber, Charles	158	Sheets, Frank T.
293	Nee, Dan	167	Shields, Bert
82	Nelson, Albert	327	Silberman, S.
354	Nelson, Joe	24	Skall, William Vincent
80	Newgard, Barney	36	Skinner, Theodore C.
252	Newton, Roy G.	3	Smith, Harold P.
		356	Smith, Jackson S.
359	O'Connor, Edwin J.	320	Smith, L. B.
34	Ormsby, Ralph	25	Snyder, Ralph
214	Owen, Geo. B.	351	Spencer, F. A.
		133	Stakes, James Henry
331	Pala, Ernest N.	216	Staples, J. W.
17	Palmer, C. S.	60	Stein, E. Waldo
54	Path, R. H.	364	Stewart, Thos.
152	Peideman, Bob	117	Strickler, Melvin H.
345	Pelton, Gordon E.	131	Striegel, Albert Leslie
94	Perkins, Edellie Edw.	277	Sulages, George
235	Perry, C. E.	296	Sund, Nobel



No.	Name	No.	Name
310	Sutton, Harold	50	Watson, Erwin G.
30	Swanson, Edw. J.	272	Watson, Hugh
174	Swartz, Chas. F.	259	Webb, Roy M.
41	Tafil, Sigismund	110	Weidman, James
209	Tefft, E. G.	144	Weigle, G.
59	Tinker, Allen G.	57	Wells, Frank W.
64	Toolen, Sargent B.	314	Whilesel, Harry B.
26	Turner, E. A.	114	Wilberg, Einar
308	Tyson, A. J.	150	Wilcox, K. O.
234	Vail, Algernon F.	113	Willers, Edw. A.
318	Vanberg, Henry W.	175	Willet, Joseph
140	Van Riper, Wm.	328	Williams, Brady
315	Van Ronk, Vern	352	Williams, James L.
142	Vincent, C. W.	203	Williams, R. L.
79	Voelter, K. E.	143	Williams, Sam
145	Voight, Al. G.	253	Wilson, George
160	Wackerly, Christian R.	128	Wood, Harry B.
116	Walden, Jas. I.	312	Wood, William J.
361	Walker, Adam	367	Wooddell, D. S.
20	Walker C. A.	264	Woods, Harry E.
188	Walsh, Chas.	202	Wright, Harry
187	Waltz, C. C.	271	Wynne, Chas. J.
200	Ward, W. J.	16	Wysong, Leslie E.
118	Washburn, J. R.	77	Zearly, H. W.
147	Wassner, Jacques	244	Zimmel, J. J.
		334	Zubell, Harvey R.
		108	Zwick, Nicholas

# 1916 REGISTERED RACING CARS.

No.	Name of Car	Pis. Disp. cu. ins.	Owner's Name
1	Mercedes	299.1	Ralph De Palma
2	Delage	271.3	Barney Oldfield
3	Maxwell	298.2	Prest-O-Lite Company
4	Mulford	299.0	Ira M. G. Vail
5	Stutz	449.4	Andy Burt
6	Peugeot	274.2	Peugeot Auto Imp. Co.
7	Stutz	449.4	Jos. W. Dickinson
8	Stutz	296.8	Earl P. Cooper
9	Peugeot	347.0	Bob Burman
		294.2	Interchangeable cylinders
10	Mercer	298.2	Charles M. Lanahan
11	J and F	297.8	Raymond D. Jackson
12	Buick	192.4	Lorie B. Valdez
14	National	446.7	Jack Graham
15	National	446.7	Jack Graham
16	Gandy	299.0	Julian Bernhardt
17	Stevens-Duryea	478.5	M. G. Francis
18	Wenz	296.4	F. W. Wenz
19	Stutz	318.1	W. A. Boldon
20	National	448.0	R. H. Delno
21	Tomasini	295.8	T. A. Tomasini
22	Apperson	318.1	Robert G. Russell
23	Mercedes	1073.3	George T. Theobald
24	Isotta	493.6	Eugene Prschak
25	Studebaker	267.3	Studebaker Garage
26	Burman	449.4	E. L. Rathburn
27	Cornelian	173.2	M. J. Crell
28	Cornelian	90.9	M. J. Crell
29	Buick	255.3	Hale Motor Company
30	Buick	300.7	Thos. H. Ball
31	Hursh	283.6	F. L. Hursh
33	Lozier	499.2	Frank Wallertein
34	Lozier	476.5	Coates & Swain
35	Tahis	449.4	G. H. Robinson
36	National	446.7	James A. Meyer
37	Stoddard-Dayton	354.4	G. D. Ray
38	Ogren	299.0	Ogren Motor Car Co.
39	Meyer	251.3	Herbert E. Meyer
40	Gordon	300.7	Elliott & Walker
41	Cornelian	90.9	M. J. Crell
42	Ford	176.7	Harry L. Hastings
43	Buick	318.1	Herbert M. Strachan
44	National	446.7	Robert R. Rollins
45	Maxwell	185.8	Ivan R. Gates
46	Stutz	389.9	Sidney Landers
47	Pugh-LeCain	290.0	J. Le Cain & J. E. Pugh
48	National	448.0	H. F. Alexander
49	Reo	226.2	Hugh M. Donegan
50	A. C. W.	431.9	Austin C. Wilson



No.	Name of Car	Pis. Disp. cu. ins.	Owner's Name
51	Overland	226.2	E. S. Waterman
52	Stevens-Duryea	478.5	M. G. Francis
53	Chevrolet	198.8	G. C. Jessop
54	Mercer	450.2	Geo. R. Bentel
55	Mercer	450.2	Geo. R. Bentel
56	Stutz	436.6	Parsons & Palmer
57	Haynes	288.6	W. T. Duff
58	Chalmers	230.1	F. A. Close
59	Haynes	288.6	H. L. Robinson
60	Overland	240.5	T. C. O'Rorke
61	Mercer	300.7	E. A. Sharmon
62	Fiat	589.0	H. D. Clark
63	Cole	380.8	J. F. Thomas
64	Buick	318.1	S. W. Martin
65	Cino	297.2	Ed. D. McNay
66	Wescott	318.1	Guy Cisco
67	Cino	300.7	Wilson Hughes
68	Locomobile	286.3	Otto T. Leisy, Jr.
69	Stutz	389.9	H. J. BeBout
70	Mercer	315.7	Jas. H. Andrus
71	Everitt	269.4	W. G. Lake
72	Cole	349.9	H. E. Campbell
73	Britt	389.9	M. S. Britt
74	Cino	298.8	Harry E. McCord
75	Marmon	318.1	C. A. Bennett
76	Clyde	351.9	J. D. Clyde
77	Buda-Elmore	349.9	Jay J. Garfield
78	Fiat	475.7	Walter S. Smith
79	Velie	352.8	Travis Bailey
80	Duesenberg	360.8	Dr. W. A. Cooling
81	National	448.0	Elliot Ganett Company
82	Apperson	522.7	J. S. Myers
83	Mercer	298.2	E. W. Schillo
84	Stutz	312.0	Harold Steinfeld
85	Durant	472.9	R. C. Durant
86	Pope-Hartford	306.7	G. Gaffrey & J. Britschgi
87	R. F.	299.0	Romaine Fielding
88	Benz	416.4	E. M. Teel
89	Myers	318.1	W. E. Myers
90	Ford	165.6	R. H. Path
91	Sunbeam	563.3	Adams Brothers
92	Romano	402.1	E. J. Romano
93	Milac	199.1	Linthwaite-Hussey Motor Co.
94	Garfield	392.7	Jay J. Garfield
95	Omar	298.2	Omar Toft
96	Pierce-Arrow	425.5	B. G. Hines
97	Duesenberg	298.2	Donald Moffatt (Chas. J. Devlin, Att'y.)
98	Halladay	294.0	L. G. Doyle
99	Duesenberg	360.8	George Buzane
100	Christie	1325.4	Barney Oldfield
101	Cyclone	298.2	Barney Oldfield
102	Chevrolet	170.9	Fred. W. Dochtermann
103	Chalmers	226.2	D. E. Brown

No.	Name of Car	Pis. Disp. cu. ins.	Owner's Name
104	Kirkwood	198.8	F. J. Ralston
105	Studebaker	192.4	Frank M. Lechliden
106	Chevrolet	170.9	R. C. Durant
107	Hercules	425.3	H. G. Angevine
108	Oakland	177.0	Bert Lloyd
109	Ostewig	296.4	S. Ostewig
110	Gandy No. 2	299.0	Lou Gandy
111	Erwin	298.5	Grover C. Bergdoll
112	Erwin	445.3	Grover C. Bergdoll
113	Chalmers	248.9	Harry C. Orndorff
114	Ford	176.7	George V. Armitage
115	Ford	176.7	Whyte Womack
116	Ford	176.7	Ray Puissegur
117	RiChard	296.6	R. H. Delno
118	Erwin	298.5	Erwin Motor & Machine Co.
119	Erwin	298.5	Erwin Motor & Machine Co.
120	J. J. R.	299.0	Joseph J. Ryan
121	K. W. P.	299.0	Kirbe W. Packard
122	Grant	180.2	W. M. Jenkins
123	Peugeot	446.8	W. T. Higgins
124	Sunbeam	294.3	J. Christiaens
125	Peugeot	274.2	L. Brown
126	Super-Six	288.6	Hudson Motor Car Co.
127	Delage	274.3	Harry S. Harkness
128	Delage	274.3	Harry S. Harkness
129	Delage	274.3	Harry S. Harkness
130	Peusun	274.3	Harry S. Harkness
131	Benz	1300.7	Harry S. Harkness
132	Delage	311.6	Harry S. Harkness
133	Gillis	641.4	Chas. Gillis
134	Hudson	288.6	C. E. Hanson & I. M. G. Vail
135	Peugeot	274.2	Indianapolis Speedway Team Co.
136	Peugeot	274.2	Indianapolis Speedway Team Co.
137	Maxwell	298.2	Prest-o-Lite Co.
138	Maxwell	185.8	Walter J. Smith
139	Studebaker	226.2	Ed. Gibson
140	McKee	433.1	S. A. McKee
141	Ford	176.7	L. H. Byron
142	Stutz	418.4	Earl P. Cooper
143	Marmon	445.3	S. Landers
144	Adams	298.2	Richard & George Adams
145	Crawford	298.2	Billy Chandler
146	Crawford	298.2	Billy Chandler
147	Crawford	298.2	Billy Chandler
148	Olsen	298.2	C. W. Thompson
149	Fiat	445.6	Oritani Garage (Geo. P. Bar- barow)
150	Melcher	282.3	Walter Melcher
151	Tacoma	449.4	U. Aubry
152	Cadillac	213.6	Chas. C. Heacox
153	Metz	188.7	W. Fuselehr
154	Regal	198.8	Roy Masseur
155	Ford	201.1	A. Duryea
156	Duesenberg	299.0	M. Sorensen



No.	Name of Car	Pis. Disp. cu. ins.	Owner's Name
157	Mercer .....	300.7	R. C. Bigler
158	Frontenac .....	300.4	Frontenac Motor Co.
159	Frontenac .....	300.4	Frontenac Motor Co.
160	Frontenac .....	300.4	Frontenac Motor Co.
161	Premier .....	278.9	J. L. Yarian
162	Premier .....	278.9	Indianapolis Motor Team Co.      Speedway
163	Premier .....	278.9	Indianapolis Motor Team Co.      Speedway
164	Ford .....	176.7	P. J. Erdman
165	Tiger .....	118.8	Roy Alkena
166	Stutz .....	389.9	Fred E. Thomas
167	Paige .....	251.3	Andrew J. Strong
168	Dort .....	165.9	C. Kaufman
169	Van .....	201.1	D. G. VanDorn
170	Burman .....	292.9	Burman Racing Co.
171	Giddings .....	400.2	Charles E. Giddings, Jr.
172	Forbes .....	336.0	F. V. Forbes
173	Clergy .....	283.6	Louis Clergy
174	Mercer .....	292.1	Phil J. Riley and Don Moore
175	Maxwell .....	298.2	Prest-o-Lite Co.
176	Maxwell .....	298.2	Prest-o-Lite Co.
177	Duesenberg .....	298.2	F. S. Duesenberg
178	Duesenberg .....	298.2	F. S. Duesenberg
179	Mercer .....	300.7	Harry D. Horsman
180	Mercer .....	300.7	Rene Gourand
181	Hudson .....	288.6	Harry Twitchell
182	Dans L'Argent .....	288.6	Lutcher Brown
183	Stutz .....	389.9	Lambert Bros.
184	West Duluth .....	298.2	E. E. Rawlings
185	Hoskins .....	298.2	J. C. Hoskins
186	Chalmers .....	373.0	Frank G. Bell
187	Corbin .....	270.4	Harry Veltz
188	I. C. B. .....	389.9	I. C. Barber
189	National .....	446.7	Frank Bill Cody
190	Saxon .....	190.8	H. A. Wetmore
191	Overland .....	270.6	A. V. Estabrook
192	Pathfinder .....	389.5	The Pathfinder Company
193	Darracq .....	729.9	Paul Sartori
194	National .....	471.2	L. J. Schlicht
195	Crow Elkhart .....	226.2	R. C. Belshaw
196	National .....	469.3	Geo. C. Beck
197	Oakland .....	280.6	V. A. Tanner
198	B. M. C. .....	429.3	Emma W. Crawford
199	Buick .....	255.3	Alton W. Downs
200	Marmon .....	445.3	Tom Alley
201	Patrick .....	300.0	Carl Heim
202	Wisconsin .....	389.9	Otto T. Leisy, Jr.
203	Hudson .....	198.8	Manuel H. Taylor
204	Packard .....	539.5	C. W. Johnson
205	Cadillac .....	314.4	Cadillac Motor Co. of Denver (R. R. Hall)
206	Duchesnau .....	242.9	W. W. Brown
207	Peerless .....	331.8	Frank H. Sauff

No.	Name of Car	Pis. Disp. cu. ins.	Owner's Name
208	Dort	165.9	G. T. Overholt
209	Oakland	177.0	F. J. Santry
210	Haynes	288.6	F. M. Seanor
211	Sun	230.1	E. S. Beggs
212	Sunbeam	293.3	J. Christiaens
213	Davidson	274.0	Jay T. Davidson
214	Cino	300.7	Walter D. Rowlands
215	Hudson	288.6	Hudson Motor Car Co.
216	Hudson	288.6	Hudson Motor Car Co.
217	Olsen	298.2	J. C. Olsen
218	Isotta	484.2	Arthur N. Kerr
219	Biddle	226.4	Biddle Motor Car Co.
220	Saxon	175.3	A. F. Eisler
221	not issued		
222	Kline Kar	298.5	J. A. Kline
223	Kline Kar	447.7	J. A. Kline
224	Oldsmobile	192.4	C. R. Newhouse
225	Ford	179.0	E. H. Knowles
226	Mercer	207.3	Ernest F. Parrish
227	Cadillac	314.4	Marksheffel Motor Co.
228	Parker	299.0	C. R. Parker
229	National	446.7	Chas. B. Weldrick
230	National	446.7	T. W. Marsh
231	Chalmers	226.2	Thos. H. Ball
232	Kaster	283.6	Edward W. Kaster
233	Buick	318.1	Elwood H. Willets
234	Bush	471.2	F. E. Bush
235	National	446.7	C. P. Galanot
236	H. K.	389.9	A. C. Halley
237	Metz	176.7	A. L. Austin
238	Ford	176.7	Roland C. Gifford
239	Ford	176.7	Guy Peterson
240	Ford	176.7	Guy Peterson
241	Buick	318.1	Douglas Burch
242	Mercer	300.7	Milo C. Burbage
243	Semmes	420.9	Raphael Semmes
244	Milton	449.4	Thomas Milton
245	Kline	468.0	Wilbert B. Jones
246	Beaver	449.4	Geo. B. Gardner
247	Chalmers	224.0	Chalmers Motor Car Co.
248	Chalmers	230.1	Chalmers Motor Car Co.
249	Chevrolet	170.9	E. Bunting Moore
250	Hupmobile	242.9	Irvin T. Donohoe
251	Stutz	389.9	Arthur J. Hartnagle
252	Hancock	165.6	G. R. Hancock
253	Grant	180.3	R. C. Mulnix
254	Maxwell	192.2	Maxwell Motor Co. of Kansas City Mo.
255	Ford	176.7	Isadore Spangler
256	Marquette-Buick	318.1	Harry D. Meyer
257	Kleinart	299.0	E. A. Klein
258	Pugh	299.0	John E. Pugh
259	Stutz	389.9	George Dolan
260	Mercer	300.7	Mercer Automobile Co.



No.	Name of Car	Pis. Disp. cu. ins.	Owner's Name
261	Mercer	300.7	Mercer Automobile Co.
262	Locomobile	286.3	Gifford E. Blaylock
263	Hupmobile	242.9	W. L. Hughes
264	Glenn Allyn	297.7	H. G. Allyn
265	Pathfinder	389.5	The Pathfinder Co.
266	H. A. L. Twelve	389.5	The H. A. Lozier Co.
267	S. S. E.	288.6	S. S. E. Company
268	Ogren	289.0	Hugo W. Ogren
269	Stutz	296.4	R. H. Delno
270	Drake	170.9	J. A. Drake & Sons
271	Mercer	298.2	Mercer Automobile Co.
272	Mercer	298.2	Mercer Automobile Co.
273	Mercer	300.7	E. A. Bromm
274	Burman	449.4	L. C. Erbes
275	Benedict	298.2	James A. Benedict
276	Mercer	300.7	George Prothers
277	Great Western	254.0	C. P. Galanot
278	Buick	224.0	Jake Strickler
279	Stutz	389.9	E. I. Zwally
280	Weightman	296.4	D. B. Gish
281	Valdsmar	300.7	Oscar Valdsmar
282	Buick	224.0	M. D. Stone
283	Hudson	288.6	Russell B. Armstrong
284	Weir	192.4	Alonzo Weir
285	Schneider	449.4	Ernest Schneider
286	Dodge	212.3	Guy E. Riegel
287	Glenwood	263.9	A. W. Smith
288	Boldon-Crosby	298.2	Wm. Boldon
289	Hudson	288.6	Clyde Roads
290	M. - P.	204.5	H. A. McMullen
291	Great Western	471.2	C. P. Galanot
292	Ford	176.7	A. S. Halls
293	Michigan	263.9	Harry Smith
294	Stutz	389.9	C. P. Galanot
295	Titanic	589.0	A. W. Smith
296	Chevrolet	182.7	Jim Johnson
297	Shrimpton	95.0	Deane Shrimpton
298	Buick	300.7	C. W. Johnson
299	Crowther-Duryea	187.7	Crowther Motors Corp.
300	Stutz	389.9	John R. Callum
301	Studebaker	192.4	Raymond Reese
302	Ford	224.0	Jas. R. Herbertson
303	Stutz	296.8	Gil Anderson
304	Stearns-Knight	248.5	G. T. Overholt
305	Murray	331.8	W. C. Carnegie
306	Mercer	309.2	John R. Boling
307	Ford	176.7	Bill Davis
308	Buick	318.1	Martin Gold
309	Franklin	247.4	Dr. L. Boido
310	Stutz	389.9	R. L. Smith
311	Stearns-Knight	255.3	Geo. A. Sawaya
312	Pope-Hartford	389.9	Hugh B. Miller
313	Buick	331.4	Geo. Simon
314	Ford	187.7	Chas. H. Slankard

No.	Name of Car	Pis. Disp. cu. ins.	Owner's Name
315	Stutz .....	389.9	Clyde Branum
316	Cole .....	312.0	Frank Larison
317	Paige .....	230.1	Errett L. Cord
318	Buick .....	224.0	Walter W. Logan
319	Pope-Hartford .....	389.9	Hoyt Medler
320	S. P. A. ....	549.9	R. E. Lambert
321	Ford .....	176.7	Roland Getchell
322	Kissel Kar .....	312.0	Dave Anderson
323	Perry .....	185.0	Chas. B. Perry
324	Fiat .....	589.0	H. D. Clark
325	National .....	448.0	John H. McVey

## 1916 REGISTERED STOCK CARS.

No.	Maker	Name	Model	Year	Date Registered
7	King Motor Car Co.	King "8"	E	1916	July 12th, 1916
8	Mitchell Lewis Motor Company	Mitchell	C 42	1916	July 12th, 1916
9	The Pathfinder Co.	Pathfinder	2 B	1916	July 31st, 1916
10	Hudson Motor Car Co.	Super-Six		1916	June 19th, 1916
11	Crow Motor Car Co.	Crow	CE-35	1917	Oct. 28th, 1916
12	Hupp Motor Car Corp.	Hupmobile	N	1916	Nov. 1st. 1916



# 1916 LICENSED DIRT TRACKS.

	Name and Location.	Size
500	Fair Grounds Track, Benton Harbor, Mich.....	½ Mile
501	Olympic Park Track, Newark, N. J.....	½ "
502	Maple Avenue Driving Park Track, Elmira, N. Y.....	½ "
503	Galesburg District Fair Track, Galesburg, Ill.....	1 "
504	Waterville Track, Waterville, Washington.....	½ "
505	Coeur d'Alene Track, between Spokane, Wash., and Coeur d'Alene, Idaho.....	1 "
506	Youngwood Track, Youngwood, Pa.....	½ "
507	Spokane Interstate Fair Track, Spokane, Wash.....	½ "
508	Half Mile Track, Butler, Pa.....	½ "
509	Rose City Speedway Track, Portland, Ore.....	1 "
510	Flemington Race Track, Flemington, N. J.....	½ "
511	Recreation Park Track, Kalamazoo, Mich.....	1 "
512	Bennings Track, Washington, D. C.....	1 "
513	Fair Grounds One Mile Track, Fresno, Calif.....	1 "
514	Pulaski Fair Grounds Track, Pulaski, Pa.....	½ "
515	DuBois Driving Association Track, DuBois, Pa.....	½ "
516	Dodge City Two Mile Oblong Dirt Track, Dodge City, Kansas .....	2 "
517	Fair Grounds Track, Indiana, Pa.....	½ "
518	Fair Grounds Track, Richmond, Va.....	1 "
519	Bakersfield Race Track, Bakersfield, Calif.....	1 "
520	Canfield Track, Canfield, Ohio.....	½ "
521	State Fair Track, North Yakima, Wash.....	1 "
522	Arizona State Fair Track, Phoenix, Ariz.....	1 "

# 1916 LICENSED SPEEDWAYS.

## Class "A"

A 1	Sheepshead Bay Speedway, Sheepshead Bay, N. Y.	2	miles
A 2	Indianapolis Motor Speedway, Indianapolis, Ind....	2½	miles
A 3	Speedway Park, Chicago, Ill.....	2	miles
*A 4	Twin City Motor Speedway, Fort Snelling, Minn.	2	miles
A 5	Tacoma Auto Speedway, Tacoma, Wash.....	1.9398	miles
A 6	Cincinnati Motor Speedway, Cincinnati, Ohio.....	2	miles
A 7	Sioux City Speedway, Union County, So. Dak., near Sioux City, Iowa.....	2	miles

## Class "B"

B 1	Ascot Park Speedway, Los Angeles, Calif.....	1	mile
B 2	Des Moines Speedway, Des Moines, Iowa.....	1	mile
B 3	Narragansett Park Speedway, Providence, R. I.....	1	mile
B 4	Kansas City Speedway, Kansas City, Mo.....	1⅞	miles
B 5	Omaha Auto Speedway, Omaha, Neb.....	1¼	miles
B 6	Uniontown Speedway, Uniontown, Pa.....	1⅞	miles

\* Revoked.

# OFFICIAL RECORDS.

Allowed and Accepted by A. A. A. Contest Board  
*Division One*

## COMPETITIVE RECORDS

SPEEDWAY RECORDS, CLASS "B" STOCK CAR  
 (Piston Displacement)

SPEEDWAY RECORDS, CLASS "B" STOCK CHASSIS  
 (Piston Displacement)

Distance	Time	Driver	Car	Place	Date
4 miles	3:49.00	Witt	E. M. F.	Atlanta	Nov. 3, 1910
5 "	4:35.47	L. Chevrolet	Buick	Indianapolis	Nov. 2, 1910
10 "	8:55.40	L. Chevrolet	Buick	Indianapolis	Nov. 2, 1910
20 "	19:51.00	Knipper	Chalmers	Atlanta	Nov. 12, 1909
50 "	50:36.00	Nelson	Buick	Atlanta	Nov. 9, 1909
100 "	1:40:46.81	Knipper	Chalmers	Atlanta	Nov. 10, 1909
231 TO 300 CUBIC INCHES					
5 miles	4:16.00	Dawson	Marmon	Indianapolis	July 2, 1910
10 "	8:16.08	Harroun	Marmon	Indianapolis	May 27, 1910
20 "	17:10.70	Chevrolet	Buick	Atlanta	Nov. 11, 1909
25 "	21:48.92	Harroun	Marmon	Indianapolis	Nov. 11, 1909
50 "	42:41.33	Harroun	Marmon	Indianapolis	May 30, 1910
75 "	67:31.07	Harroun	Marmon	Indianapolis	May 30, 1910
100 "	1:30:08.31	Harroun	Marmon	Atlanta	Nov. 11, 1909
301 TO 450 CUBIC INCHES					
5 miles	4:05.76	Kincaid	National	Indianapolis	May 27, 1910
10 "	7:55.12	Aitken	National	Indianapolis	July 2, 1910
15 "	11:48.78	Aitken	National	Indianapolis	July 1, 1910
20 "	15:57.63	Dawson	Marmon	Indianapolis	May 27, 1910



Distance	Time	Driver	Car	Place	Date
50 "	39:47.35	Dawson	Marmon	Atlanta	Nov. 3, 1910
75 "	1:00:16.34	Dawson	Marmon	Indianapolis	May 27, 1910
100 "	1:23:43.11	Kincaid	National	Indianapolis	May 27, 1910
150 "	2:05:02.17	Chevrolet	Buick	Atlanta	Nov. 9, 1909
200 "	2:46:48.47	Chevrolet	Buick	Atlanta	Nov. 9, 1909
250 "	4:38:57.40	Burman	Buick	Indianapolis	Aug. 19, 1909

451 TO 600 CUBIC INCHES

5 miles	4:01:36	Oldfield	Knox	Indianapolis	May 30, 1910
10 "	7:47.71	Robertson	Fiat	Atlanta	Nov. 11, 1909
20 "	15:57.41	De Palma	Fiat	Atlanta	May 5, 1910
50 "	42:02.98	Robertson	Fiat	Atlanta	Nov. 13, 1909
100 "	1:22:35.35	Robertson	Fiat	Atlanta	Nov. 13, 1909
150 "	2:05:00.63	Robertson	Fiat	Atlanta	Nov. 13, 1909
200 "	2:53:48.32	Disbrow	Rainier	Atlanta	Nov. 13, 1909

SPEEDWAY RECORDS, CLASS "C" NON-STOCK  
(Piston Displacement)

161 TO 230 CUBIC INCHES

Distance	Time	Driver	Car	Place	Date
5 miles	4:20.20	J. Nikrent	Buick	Los Angeles	April 15, 1910
10 "	8:40.17	J. Nikrent	Buick	Los Angeles	April 15, 1910
15 "	13:14.52	J. Nikrent	Buick	Los Angeles	April 9, 1910
20 "	17:37.36	J. Nikrent	Buick	Los Angeles	April 9, 1910
25 "	21:12.42	Tower	Flanders	Los Angeles	May 5, 1912
50 "	43:49.69	Endicott	Cole	Los Angeles	April 9, 1910

231 TO 300 CUBIC INCHES

1 mile	0:45.60	De Palma	Mercer	Los Angeles	May 5, 1912
2 miles	1:31.53	De Palma	Mercer	Los Angeles	May 5, 1912
3 "	2:17.17	De Palma	Mercer	Los Angeles	May 5, 1912

Distance	Time	Driver	Car	Place	Date
4	3:02.70	De Palma	Mercer	Los Angeles	May 5, 1912
"	3:47.34	De Palma	Mercer	Los Angeles	May 5, 1912
10	7:27.33	De Palma	Mercer	Los Angeles	May 5, 1912
"	11:11.17	De Palma	Mercer	Los Angeles	May 5, 1912
20	14:56.05	De Palma	Mercer	Los Angeles	May 5, 1912
"	18:53.20	J. Nikrent	Case	Los Angeles	May 5, 1912
50	42:30.08	Siefert	Dorris	Los Angeles	April 8, 1910
"	1:03:54.28	Harroun	Marmon	Los Angeles	April 8, 1910
75	1:25:22.07	Harroun	Marmon	Los Angeles	April 8, 1910
100		Harroun	Marmon	Los Angeles	April 8, 1910

301 TO 450 CUBIC INCHES

5 miles	3:49.36	J. Nikrent	Buick	Los Angeles	April 17, 1910
"	7:36.61	J. Nikrent	Buick	Los Angeles	April 17, 1910
10	12:04.99	Dawson	Marmon	Los Angeles	April 15, 1910
15	16:04.40	Harroun	Marmon	Los Angeles	April 15, 1910
20	20:08.69	Harroun	Marmon	Los Angeles	April 15, 1910
25	39:53.55	Harroun	Marmon	Los Angeles	April 15, 1910
50		Harroun	Marmon	Los Angeles	April 15, 1910

451 TO 600 CUBIC INCHES

5 miles	3:38.61	Oldfield	Knox	Los Angeles	April 16, 1910
"	7:20.66	Oldfield	Knox	Los Angeles	April 16, 1910
15	11:32.34	Marquis	Isotta	Los Angeles	April 10, 1910
"	15:29.18	Marquis	Isotta	Los Angeles	April 10, 1910
20	19:24.92	Marquis	Isotta	Los Angeles	April 10, 1910
25	39:20.69	Marquis	Isotta	Los Angeles	April 10, 1910
50		Marquis	Isotta	Los Angeles	April 10, 1910

SPEEDWAY RECORDS REGARDLESS OF CLASS, STOCK

SPEEDWAY RECORDS REGARDLESS OF CLASS, NON-STOCK

Distance	Time	Driver	Car	Place	Date
1 mile	40.23	De Palma	Mercedes	Des Moines	June 24, 1916
2 miles	1:12.85	Resta	Peugeot	Sheepshead Bay	Sept. 30, 1916



Distance	Time	Driver	Car	Place	Date
3	1:54.81	De Palma	Mercedes	Des Moines	June 24, 1916
4	2:20.08	Resta	Peugeot	Sheepshead Bay	Oct. 9, 1915
5	2:56.35	Resta	Peugeot	Omaha	July 15, 1916
10	5:45.03	Aitken	Peugeot	Sheepshead Bay	Sept. 30, 1916
15	8:54.72	Mulford	Peugeot	Omaha	July 15, 1916
20	11:15.79	Aitken	Peugeot	Sheepshead Bay	May 13, 1916
25	15:00.38	Mulford	Peugeot	Omaha	July 15, 1916
50	28:04.63	Resta	Peugeot	Sheepshead Bay	Oct. 9, 1915
75	45:05.31	Rickenbacher	Maxwell	Sheepshead Bay	July 15, 1916
100	56:57.72	Resta	Peugeot	Omaha	July 15, 1916
150	1:26:58.65	Aitken	Peugeot	Sheepshead Bay	Nov. 2, 1915
200	1:55:23.53	Aitken	Peugeot	Sheepshead Bay	Sept. 30, 1916
250	2:23:04.03	Aitken	Peugeot	Sheepshead Bay	Sept. 30, 1916
300	2:55:32.23	Anderson	Peugeot	Sheepshead Bay	Sept. 30, 1916
350	3:24:42.99	Anderson	Stutz	Sheepshead Bay	Sept. 9, 1915
400	4:04:48.98	Resta	Peugeot	Chicago	Oct. 9, 1915
450	4:35:05.78	Resta	Peugeot	Chicago	June 26, 1915
500	5:07:26.00	Resta	Peugeot	Chicago	June 26, 1915

### ONE MILE CIRCULAR DIRT TRACK RECORDS, STOCK

### ONE MILE CIRCULAR DIRT TRACK RECORDS, NON-TOCK

10 miles	8:16.40	Burman	Peugeot	Bakersfield	Jan. 3, 1915
15	12:23.20	Burman	Peugeot	Bakersfield	Jan. 3, 1915
20	16:25.60	Burman	Peugeot	Bakersfield	Jan. 3, 1915
25	20:28.80	Burman	Peugeot	Bakersfield	Jan. 3, 1915
50	40:57.80	Burman	Peugeot	Bakersfield	Jan. 3, 1915
75	1:08:56.00	Burman	Peugeot	Bakersfield	Jan. 3, 1915
100	1:31:30.00	Alley	Peugeot	Galesburg	Oct. 22, 1914
150	2:30:51.00	Wishart	Duesenberg	Hamline	Oct. 24, 1914
200	3:21:48.00	Mulford	Mercer	Columbus	Aug. 25, 1912
			Mason Special	Columbus	July 4, 1913

**STRAIGHTAWAY RECORDS, CLASS "B" STOCK CHASSIS**  
(Piston Displacement)

161 TO 230 CUBIC INCHES

Distance	Time	Driver	Car	Place	Date
5 miles	4:24.13	Towers	Warren-Detroit	Jacksonville	Mar. 29, 1911
10 "	9:10.52	Towers	Warren-Detroit	Jacksonville	Mar. 30, 1911

231 TO 300 CUBIC INCHES

10 miles	8:16.35	Wilson	Cole	Jacksonville	Mar. 29, 1911
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301 TO 450 CUBIC INCHES

5 miles	3:56.82	Wilcox	National	Jacksonville	Mar. 30, 1911
10 "	8:03.67	Merz	National	Jacksonville	Mar. 29, 1911

**STRAIGHTAWAY RECORDS, CLASS "C" NON-STOCK**  
(Piston Displacement)

**STRAIGHTAWAY RECORDS, REGARDLESS OF CLASS, STOCK**

**STRAIGHTAWAY RECORDS, REGARDLESS OF CLASS, NON-STOCK**

Distance	Time	Driver	Car	Place	Date
10 miles	5:14.40	Bruce-Brown	Benz	Daytona	Mar. 24, 1909
20 "	13:11.92	Burman	Buick Bug	Jacksonville	Mar. 30, 1911
50 "	35:52.31	Burman	Buick Bug	Jacksonville	Mar. 28, 1911
100 "	1:12:45.20	Bernin	Renault	Daytona	Mar. 6, 1908
150 "	1:55:18.00	Disbrow	Special	Jacksonville	Mar. 31, 1911
200 "	2:34:12.00	Disbrow	Special	Jacksonville	Mar. 31, 1911
250 "	3:14:55.00	Disbrow	Special	Jacksonville	Mar. 31, 1911
300 "	3:53:33.50	Disbrow	Special	Jacksonville	Mar. 31, 1911



## HOUR RECORDS

### SPEEDWAY, REGARDLESS OF CLASS, NON-STOCK

Distance	Time	Driver	Car	Place	Date
*1 hour.....	74 miles.....	Harroun	Marmon	Los Angeles	April 16, 1910
2 hours.....	148 ".....	Harroun	Marmon	Los Angeles	April 16, 1910
24 ".....	1491 ".....	Verbeck & Hirsh	Fiat	Los Angeles	April 8, 1910
<b>ONE MILE CIRCULAR DIRT TRACK, REGARDLESS OF CLASS, STOCK CHASSIS</b>					
24 hours.....	1196 miles.....	Patschke, & Mulford	Lozier	Brighton Beach	Oct. 15, 1909
<b>ONE MILE CIRCULAR DIRT TRACK, REGARDLESS OF CLASS, NON-STOCK</b>					
24 hours.....	1253 miles.....	Poole & Patschke	Stearns	Brighton Beach	Aug. 19, 1910
<b>STRAIGHTAWAY, REGARDLESS OF CLASS, NON-STOCK</b>					
1 hour.....	81.65 miles.....	Disbrow	Special	Jacksonville	Mar. 28, 1911

### *Division Two*

### NON-COMPETITIVE RECORDS

### SPEEDWAY RECORDS, CLASS "B" STOCK CAR

(Piston Displacement)

231 TO 300 CUBIC INCHES

Distance	Time	Driver	Car	Place	Date
10 miles.....	7:54.40	Mulford	Hudson	Sheepshead Bay	Nov. 25, 1915
20 ".....	15:45.80	Mulford	Hudson	Sheepshead Bay	Nov. 25, 1915
50 ".....	39:30.80	Mulford	Hudson	Sheepshead Bay	Nov. 25, 1915
100 ".....	1:20:21.40	Mulford	Hudson	Sheepshead Bay	Nov. 29, 1915

### SPEEDWAY RECORDS, CLASS "B" STOCK CHASSIS

(Piston Displacement)

160 CUBIC INCHES AND UNDER

1 mile.....	:56.80	Witt	Flanders	Indianapolis	Nov. 13, 1911
5 miles.....	4:22.98	Witt	Flanders	Indianapolis	Nov. 13, 1911
10 ".....	9:27.49	Witt	Flanders	Indianapolis	Nov. 13, 1911
15 ".....	14:13.26	Witt	Flanders	Indianapolis	Nov. 13, 1911
20 ".....	19:00.87	Witt	Flanders	Indianapolis	Nov. 13, 1911

## SPEEDWAY RECORDS, CLASS "C" NON-STOCK (Piston Displacement)

### 160 CUBIC INCHES AND UNDER

Distance	Time	Driver	Car	Place	Date
5 miles	4:26.08	Evans	Flanders	Indianapolis	Nov. 13, 1911
10 "	8:53.97	Evans	Flanders	Indianapolis	Nov. 13, 1911
15 "	13:24.00	Evans	Flanders	Indianapolis	Nov. 13, 1911
20 "	17:54.82	Evans	Flanders	Indianapolis	Nov. 13, 1911

### SPEEDWAY RECORDS REGARDLESS OF CLASS, STOCK

### SPEEDWAY RECORDS REGARDLESS OF CLASS, NON-STOCK

1/4 mile	8.16	Burman	Blitzen-Benz	Indianapolis	May 29, 1911
1/2 "	16.60	Oldfield	Christie	Tacoma	July 5, 1915
1 kilo	21.40	Burman	Blitzen-Benz	Indianapolis	May 29, 1911
1 mile	31.60	Oldfield	Christie	Tacoma	July 5, 1915
2 miles	1:10.00	Oldfield	Christie	Tacoma	July 5, 1915
3 "	1:54.83	Bragg	Fiat	Los Angeles	May 5, 1912
4 "	2:33.37	Bragg	Fiat	Los Angeles	May 5, 1912
5 "	3:00.00	Orr	Maxwell	Omaha	July 5, 1915

### ONE MILE CIRCULAR DIRT TRACK RECORDS, STOCK

### ONE MILE CIRCULAR DIRT TRACK RECORDS, NON-STOCK

Distance	Time	Driver	Car	Place	Date
1 mile	46.20	Disbrow	Simplex	St. Louis	Aug. 8, 1914
2 miles	1:32.60	Disbrow	Simplex	St. Louis	Aug. 8, 1914
3 "	2:27.81	Disbrow	Simplex	Cleveland	Sept. 14, 1912
4 "	3:17.02	Disbrow	Simplex	Cleveland	Sept. 14, 1912
5 "	4:06.58	Disbrow	Simplex	Cleveland	Sept. 14, 1912



**STRAIGHTAWAY RECORDS, CLASS "B" STOCK CHASSIS**  
(Piston Displacement)

1 mile .....	35.11	Mulford	Hudson	Daytona	April 10, 1916
1 kilo .....	26.75	Merz	National	Jacksonville	Mar. 29, 1911
1 mile .....	40.32	Wilcox	National	Jacksonville	Mar. 30, 1911

**STRAIGHTAWAY RECORDS, REGARDLESS OF CLASS, STOCK**

**STRAIGHTAWAY RECORDS, REGARDLESS OF CLASS, NON-STOCK**

1 kilo .....	15.88	Burman	Blitzen-Benz	Daytona	April 23, 1911
1 mile .....	25.40	Burman	Blitzen-Benz	Daytona	April 23, 1911
2 miles .....	51.28	Burman	Blitzen-Benz	Daytona	April 23, 1911
5 " .....	2:34.00	Hemery	Darracq	Daytona	Jan. 24, 1906
15 " .....	10:00.00	Lancia	Fiat	Daytona	Jan. 29, 1906

1 mile .....	40.53	Oldfield	Benz	Daytona	Mar. 16, 1910
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**SPEEDWAY, CLASS "B" STOCK CHASSIS**

(Piston Displacement)

231 TO 300 CUBIC INCHES

12 hours .....	924 miles	Mulford	Hudson	Sheepshead Bay	May 1-2, 1916
24 " .....	1819 miles	Mulford	Hudson	Sheepshead Bay	May 1-2, 1916

# Summary of GLIDDEN TOURS,

Start	Date	Finish	Date	Distance Miles	TROPHY
1904 New York	7/25	St. Louis	1964		No prize offered. 77 started, 66 finished.
1905 New York		New York Via Bretton Woods	870		<i>Glidden Trophy.</i> Won by Percy Pierce in Pierce-Arrow. 34 started, 27 finished.
1906 Buffalo		Bretton Woods Via Montreal and Quebec	1134		Pierce allowed to retain <i>Glidden Trophy.</i> 48 started, 32 finished. 13 perfect scores.
1907 Cleveland	7/10	New York	7/24	1570	<i>Deming Trophy.</i> Won by C. W. Kelsey, Maxwell. 6 started, 4 finished, 2 perfect scores.
1908 Buffalo	7/9	Saratoga	7/23	1669	49 Touring cars in clubs of 5 each. <i>Glidden Trophy</i> won by Buffalo team—2 Pierce-Arrows, 2 Thomas, 1 Packard. 10 Club teams, 3 cars each, 3 clubs tied with perfect scores. <i>Trophy remains with A. A. A.</i> <i>Hower Trophy.</i> 14 starters, 5 perfect scores, won by Pierce-Arrow in run off.



Start	Date	Finish	Distance		TROPHY
			Date	Miles	
1909 Detroit	7/12	Kansas City Via Denver, Colo.	7/30	2636	13 starters, <i>Glidden Trophy</i> won by Pierce-Arrow with perfect score on road and final examination.
					<i>Detroit Trophy.</i> Won by Chalmers-Detroit. 3 starters, tonneau.
					<i>Hower Trophy.</i> Won by Pierce-Arrow with perfect score, 14 starters.
1910 Cincinnati	6/14	Chicago Via Dallas	6/30	2851	15 starters, 6 finished. 12 non-contestants and official cars. Premier with 93 points penalty first; Chalmers, 116 points penalty, second. Chalmers protested. Referee disallowed protest and Chalmers appealed to Contest Board, which sustained the protest and awarded <i>Glidden Trophy</i> to Chalmers.
					<i>Chicago Trophy.</i> 12 starters, 6 finished. Won by Moline.

## TROPHY

Distance  
Miles

Date

Finish

Date

Start

*Glidden Trophy.* 18 teams of 3 cars each, 7 non-contestants and official cars. Won by Tarrytown Team of 3 Maxwell Cars, which finished with perfect team-score; second, Atlanta Team No. 2, 3 Stevens-Duryea Cars with 19 points penalty; third, Jacksonville Team of 3 Cadillacs, 23 points penalty.

*Anderson (S. C.) Touring Trophy,* for individual car competition. In addition to 54 cars above, 12 other individual cars were entered, making 66 entries for this trophy; 14 cars finished with perfect score, and in drawing, Trophy was won by Hon. Hoke Smith, Governor of Georgia, in Maxwell Car.

24 starters—17 contestants and 7 non-contestants. 14 contestants finished. Glidden Trophy won by Metz Team of 3 cars with perfect team score. 5 cars finished with score in competition for Anderson Trophy for runabouts. In drawing, won by Hupmobile.

10/26 1460.6

Jacksonville  
Via Atlanta

10/14

1911 New York

7/19 12:45

Glacier  
National  
Park

7/11

1913 Minneapolis



# French and American Equivalent Measures.

## Measures in Length.

French	United States
1 meter	39.37 inches, or 3.28083 feet
0.3048 meter	1 foot
1 centimeter	.3937 inch
2.54 centimeters	1 inch
1 millimeter	.03937 inch, or 1-25 inch nearly
25.4 millimeters	1 inch
1 kilometer	1093.61 yards, or .62137 mile

## A Convenient Metric Conversion.

(Compiled by C. W. Hunt.)

- Millimeters  $\times .03937 =$  inches.  
 Millimeters  $\div 25.4 =$  inches.  
 Centimeters  $\times .3937 =$  inches.  
 Centimeters  $\div 2.54 =$  inches.  
 Meters = 39.37 inches. (Act of Congress.)  
 Meters  $\times 3.281 =$  feet.  
 Meters  $\times 1.094 =$  yards.  
 Meter per second = 196.86 feet per minute.  
 Kilometers  $\times .621 =$  miles.  
 Kilometers  $\times 3280.7 =$  feet.  
 Square Millimeters  $\times .00155 =$  square inches.  
 Square Millimeters  $\div 645.1 =$  square inches.  
 Square Centimeters  $\times .155 =$  square inches.  
 Square Centimeters  $\div 6.451 =$  square inches.  
 Square Meters  $\times 10.764 =$  square feet.  
 Square Kilometers  $\times 247.1 =$  acres.  
 Cubic Centimeters  $\div 16.383 =$  cubic inches.  
 Cubic Meters  $\times 35.315 =$  cubic feet.  
 Cubic Meters  $\times 1.308 =$  cubic yards.  
 Cubic Meters  $\times 264.2 =$  gallons (231 cubic inches).  
 Liters  $\times 61.022 =$  cubic inches. (Act of Congress.)  
 Liters  $\times .2642 =$  gallons (231 cubic inches).  
 Liters  $\div 3.78 =$  gallons (231 cubic inches).  
 Liters  $\div 28.316 =$  cubic feet.  
 Grammes  $\times 15.432 =$  grains. (Act of Congress.)  
 Grammes (water)  $\div 29.57 =$  fluid inches.  
 Grammes  $\div 28.35 =$  ounces avoirdupois.  
 Grammes per cubic cent.  $\div 27.7 =$  pounds per cubic inch.  
 Kilograms  $\times 2.2046 =$  pounds.  
 Kilograms  $\times 35.3 =$  ounces avoirdupois.  
 Kilograms  $\div 1102.3 =$  tons (2,000 pounds).  
 Kilograms per square millimeters  $\times 1422.3 =$  pounds per square inch.  
 Kilograms per square cent.  $\times 14.223 =$  pounds per square inch.

## COMPOUND EQUIVALENTS.

- Atmosphere (14.7 lbs. per square inch) = 1.0335 kilogrammes per square centimeter.
- 1 Foot-pound = 0.1382 kilogrammeter
- 1 lb. per square inch = 0.070377 kilogramme per square centimeter = 0.7031 gramme per square millimeter = 5.170 centimeters of mercury at ° degree Centigrade.
- 1 Kilogramme per square millimeter = 1422.32 lbs. per square inch = 0.635 ton per square inch.
- 1 Kilogramme per square centimeter = 14.2232 lbs. per square inch.
- 1 Gramme per square millimeter = 1.422 lbs. per square inch.
- 1 Kilogrammeter = 7.233 foot-pounds.

## Table of Gradients.

Per Cent.	GRADE		Equal to Angle of	Rise or Fall
	Units			in One Mile Feet
20	1	in 5	11° 19'	1056
17	1	" 6	9° 26'	880
14	1	" 7	8° 09'	754
12.5	1	" 8	7° 08'	635
11	1	" 9	6° 17'	586
10	1	" 10	5° 43'	528
9	1	" 11	5° 11'	480
8	1	" 12	4° 46'	440
7.75	1	" 13	4° 24'	406
7	1	" 14	4° 05'	337
6.5	1	" 15	3° 49'	352
6.25	1	" 16	3° 35'	330
6	1	" 17	3° 22'	310
5.5	1	" 18	3° 11'	293
5	1	" 19	3° 00'	277
5	1	" 20	2° 52'	204
4	1	" 25	2° 18'	218
3.3	1	" 30	1° 55'	155
2.8	1	" 35	1° 38'	151
2.5	1	" 40	1° 26'	132

## Reference Table.

**Reference Table Showing Equivalent Speed in Miles and Kilometers per Hour for Elapsed Time Over the Measured Mile or Measured Kilometer from 24 Seconds Progressively by 1-5 Second to 59 4-5 Seconds.**

Time for One Mile. m. s.	Equal to miles per hour.	Equal to Kilo- metres per hour.	Time for one Kilo- metre. m. s.	Equal to Kilo- metres per hour.	Equal to miles per hour.
24	150.00	241.54	24	150.00	93.15
1-5	148.76	239.55	1-5	148.76	92.38
2-5	147.54	237.58	2-5	147.54	91.62
3-5	146.34	235.65	3-5	146.34	90.88
4-5	145.16	233.75	4-5	145.16	90.15
25	144.00	231.88	25	144.00	89.42
1-5	142.86	230.05	1-5	142.86	88.77



REFERENCE TABLE (continued).

Time for One Mile. m. s.	Equal to miles per hour.	Equal to Kilometres per hour.	Time for one Kilometre. m. s.	Equal to Kilometres per hour.	Equal to miles per hour.
2-5	141.73	228.23	2-5	141.73	88.04
3-5	140.62	226.44	3-5	140.62	87.32
4-5	139.53	224.67	4-5	139.53	86.64
26	138.46	222.96	26	138.46	85.98
1-5	137.40	221.25	1-5	137.40	85.32
2-5	136.36	219.58	2-5	136.36	84.68
3-5	135.34	217.94	3-5	135.34	84.04
4-5	134.33	216.31	4-5	134.33	83.42
27	133.33	214.70	27	133.33	82.80
1-5	132.35	213.12	1-5	132.35	82.19
2-5	131.38	211.56	2-5	131.38	81.58
3-5	130.43	210.03	3-5	130.43	80.10
4-5	129.50	208.53	4-5	129.50	80.42
28	128.57	207.03	28	128.57	79.84
1-5	127.66	205.57	1-5	127.66	79.27
2-5	126.76	204.12	2-5	126.76	78.71
3-5	125.87	202.69	3-5	125.87	78.16
4-5	125.00	201.29	4-5	125.00	77.62
29	124.13	199.88	29	124.13	77.08
1-5	123.28	198.52	1-5	123.28	76.55
2-5	122.45	197.18	2-5	122.45	76.04
3-5	121.62	195.84	3-5	121.62	75.52
4-5	120.80	194.52	4-5	120.80	75.01
30	120.00	193.23	30	120.00	74.52
1-5	119.20	191.95	1-5	119.20	74.02
2-5	118.42	190.69	2-5	118.42	73.54
3-5	117.64	189.43	3-5	117.64	73.05
4-5	116.88	188.21	4-5	116.88	72.58
31	116.13	187.00	31	116.13	72.11
1-5	115.38	185.79	1-5	115.38	71.65
2-5	114.65	184.62	2-5	114.65	71.20
3-5	113.90	183.41	3-5	113.90	70.73
4-5	113.21	182.28	4-5	113.21	70.30
32	112.50	181.16	32	112.50	69.86
1-5	111.80	180.03	1-5	111.80	69.43
2-5	111.11	178.92	2-5	111.11	69.00
3-5	110.43	177.82	3-5	110.43	68.57
4-5	109.75	176.73	4-5	109.75	68.15
33	109.09	175.67	33	109.09	67.74
1-5	108.43	174.60	1-5	108.43	67.33
2-5	107.78	173.56	2-5	107.78	66.93
3-5	107.14	172.53	3-5	107.14	66.53
4-5	106.51	171.51	4-5	106.51	66.14
34	105.88	170.50	34	105.88	65.75
1-5	105.26	169.50	1-5	105.26	65.36
2-5	104.65	168.52	2-5	104.65	64.98
3-5	104.04	167.53	3-5	104.04	64.61
4-5	103.45	166.58	4-5	103.45	64.24
35	102.85	165.62	35	102.85	63.87
1-5	102.27	164.68	1-5	102.27	63.51
2-5	101.69	163.75	2-5	101.69	63.15
3-5	101.12	162.83	3-5	101.12	62.79

REFERENCE TABLE (continued).

Time for One Mile. m. s.	Equal to miles per hour.	Equal to Kilo-metres per hour.	Time for one Kilo-metre. m. s.	Equal to Kilo-metres per hour.	Equal to miles per hour.
4-5	100.56	161.93	4-5	100.56	62.44
36	100.00	161.03	36	100.00	62.10
1-5	99.44	160.13	1-5	99.44	61.75
2-5	98.90	159.26	2-5	98.90	61.41
3-5	98.36	158.39	3-5	98.36	61.08
4-5	97.82	157.52	4-5	97.82	60.74
37	97.29	156.67	37	97.29	60.41
1-5	96.77	155.83	1-5	96.77	60.09
2-5	96.25	155.00	2-5	96.25	59.77
3-5	95.74	154.17	3-5	95.74	59.45
4-5	95.23	153.34	4-5	95.23	59.13
38	94.73	152.55	38	94.73	58.82
1-5	94.24	151.75	1-5	94.24	58.52
2-5	93.75	150.96	2-5	93.75	58.22
3-5	93.26	150.17	3-5	93.26	57.91
4-5	92.78	149.40	4-5	92.78	57.61
39	92.30	148.64	39	92.30	57.32
1-5	91.83	147.87	1-5	91.83	57.02
2-5	91.37	147.13	2-5	91.37	56.74
3-5	90.91	146.39	3-5	90.91	56.45
4-5	90.45	145.65	4-5	90.45	56.17
40	90.00	144.92	40	90.00	55.89
1-5	89.55	144.20	1-5	89.55	55.61
2-5	89.11	143.49	2-5	89.11	55.33
3-5	88.67	142.78	3-5	88.67	55.06
4-5	88.25	142.07	4-5	88.23	54.79
41	87.80	141.39	41	87.80	54.52
1-5	87.38	140.70	1-5	87.38	54.26
2-5	86.95	140.01	2-5	86.95	53.99
3-5	86.53	139.34	3-5	86.53	53.73
4-5	86.12	138.68	4-5	86.12	53.48
42	85.71	138.02	42	85.71	53.22
1-5	85.30	137.35	1-5	85.30	52.97
2-5	84.90	136.71	2-5	84.90	52.72
3-5	84.50	136.07	3-5	84.50	52.47
4-5	84.11	135.44	4-5	84.11	52.23
43	83.72	134.81	43	83.72	51.99
1-5	83.33	134.18	1-5	83.33	51.75
2-5	82.95	133.57	2-5	82.95	51.51
3-5	82.57	132.96	3-5	82.57	51.27
4-5	82.19	132.35	4-5	82.19	51.04
44	81.81	131.75	44	81.81	50.80
1-5	81.44	131.14	1-5	81.44	50.57
2-5	81.08	130.56	2-5	81.08	50.35
3-5	80.71	129.96	3-5	80.71	50.12
4-5	80.35	129.38	4-5	80.35	49.89
45	80.00	128.82	45	80.00	49.68
1-5	79.64	128.24	1-5	79.64	49.45
2-5	79.29	127.68	2-5	79.29	49.24
3-5	78.94	127.11	3-5	78.94	49.02
4-5	78.60	126.57	4-5	78.60	48.81
46	78.26	126.02	46	78.26	48.60



REFERENCE TABLE (continued).

Time for One Mile. m. s.	Equal to miles per hour.	Equal to Kilo-metres per hour.	Time for one Kilo-metre. m. s.	Equal to Kilo-metres per hour.	Equal to miles per hour.
1-5	77.92	125.47	1-5	77.92	48.39
2-5	77.58	124.92	2-5	77.58	48.17
3-5	77.25	124.39	3-5	77.25	47.97
4-5	76.92	123.86	4-5	76.92	47.76
47	76.59	123.34	47	76.59	47.56
1-5	76.27	122.81	1-5	76.27	47.36
2-5	75.95	122.30	2-5	75.95	47.16
3-5	75.61	121.78	3-5	75.63	46.96
4-5	75.31	121.27	4-5	75.31	46.76
48	75.00	120.77	48	75.00	46.57
1-5	74.68	120.25	1-5	74.68	46.37
2-5	74.38	119.77	2-5	74.38	46.19
3-5	74.07	119.27	3-5	74.07	46.00
4-5	73.77	118.79	4-5	73.77	45.81
49	73.47	118.30	49	73.47	45.62
1-5	73.17	117.82	1-5	73.17	45.44
2-5	72.87	117.34	2-5	72.87	45.25
3-5	72.58	116.87	3-5	72.58	45.07
4-5	72.29	116.40	4-5	72.29	44.89
50	72.00	115.94	50	72.00	44.71
1-5	71.71	115.47	1-5	71.71	44.53
2-5	71.42	115.00	2-5	71.42	44.35
3-5	71.14	114.55	3-5	71.14	44.18
4-5	70.86	114.10	4-5	70.86	44.03
51	70.58	113.67	51	70.58	43.80
1-5	70.31	113.22	1-5	70.31	43.66
2-5	70.04	112.78	2-5	70.04	43.49
3-5	69.76	112.33	3-5	69.76	43.32
4-5	69.49	111.90	4-5	69.49	43.15
52	69.23	111.48	52	69.23	42.99
1-5	68.96	111.04	1-5	68.96	42.82
2-5	68.70	110.62	2-5	68.70	42.66
3-5	68.44	110.21	3-5	68.44	42.50
4-5	68.18	109.79	4-5	68.18	42.34
53	67.92	109.38	53	67.92	42.18
1-5	67.66	108.95	1-5	67.66	42.01
2-5	67.41	108.55	2-5	67.41	41.86
3-5	67.16	108.14	3-5	67.16	41.70
4-5	66.91	107.74	4-5	66.91	41.59
54	66.66	107.34	54	66.66	41.35
1-5	66.42	106.95	1-5	66.42	41.20
2-5	66.17	106.55	2-5	66.17	41.04
3-5	65.93	106.16	3-5	65.93	40.90
4-5	65.69	105.78	4-5	65.69	40.74
55	65.45	105.40	55	65.45	40.64
1-5	65.21	105.00	1-5	65.21	40.49
2-5	64.98	104.63	2-5	64.98	40.35
3-5	64.74	104.25	3-5	64.74	40.20
4-5	64.51	103.88	4-5	64.51	40.06
56	64.28	103.52	56	64.28	39.92
1-5	64.05	103.14	1-5	64.05	39.77
2-5	63.83	102.78	2-5	63.83	39.64
3-5	63.60	102.41	3-5	63.60	39.49

REFERENCE TABLE (continued).

Time for One Mile. m. s.	Equal to miles per hour.	Equal to Kilo- metres per hour.	Time for one Kilo- metre. m. s.	Equal to Kilo- metres per hour.	Equal to miles per hour.
4-5	63.38	102.06	4-5	63.38	39.36
57	63.16	101.70	57	63.16	39.22
1-5	62.93	101.33	1-5	62.93	39.08
2-5	62.71	100.98	2-5	62.71	38.94
3-5	62.50	100.64	3-5	62.50	38.81
4-5	62.28	100.29	4-5	62.28	38.67
58	62.07	99.95	58	62.07	38.54
1-5	61.85	99.50	1-5	61.85	38.41
2-5	61.64	99.25	2-5	61.64	38.28
3-5	61.43	98.92	3-5	61.43	38.15
4-5	61.22	98.58	4-5	61.22	38.01
59	61.01	98.24	59	61.01	37.88
1-5	60.81	97.92	1-5	60.81	37.76
2-5	60.60	97.58	2-5	60.60	37.63
3-5	60.40	97.26	3-5	60.40	37.51
4-5	60.20	96.94	4-5	60.20	37.38



REFERENCE TABLE

Line No.	Rate	Line No.	Rate	Line No.	Rate	Line No.	Rate
1	100.00	11	100.00	21	100.00	31	100.00
2	100.00	12	100.00	22	100.00	32	100.00
3	100.00	13	100.00	23	100.00	33	100.00
4	100.00	14	100.00	24	100.00	34	100.00
5	100.00	15	100.00	25	100.00	35	100.00
6	100.00	16	100.00	26	100.00	36	100.00
7	100.00	17	100.00	27	100.00	37	100.00
8	100.00	18	100.00	28	100.00	38	100.00
9	100.00	19	100.00	29	100.00	39	100.00
10	100.00	20	100.00	30	100.00	40	100.00

Press of  
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D. 7854 SN=P.D.

Dr. Frank M. Drego, Min. Engr.

PISTON DISPLACEMENTS

CUBIC INCHES

4 CYL. ENGINES

[LIMIT OF ERROR = 0.04 CU. IN.] 1/12/1910.

STROKES

Table with columns for Bore-Inches (3 to 8 1/2) and Strokes (3 to 8 1/2). Each cell contains a numerical value representing cubic inches. The table is organized into sections for 3, 4, 5, and 6 inch bore diameters.