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ROAD RACING CALENDER May 16-17 WATERFORD HILLS 1981

•May 30-31

July 25-26

June 27-28

August 29-30

•Sept. 26-27

Admission is just \$2.50 for Saturday, \$4.00 for Sunday, or \$5.50 for the entire weekend. Children under 12 are always free and a Season Ticket is only \$20.00. The track opens at 10 A.M. for practice and qualifying. Racing begins at 1:30 p.m. on Saturday (seven races) and at 11:30 a.m. on Sunday (ten races). EASY ON THE WALLET

EASY TO GET TO

Chances are you live within a few minutes of the Midwest's premier road course. The W.H.R.R.I. Race Track is located just 6 miles north of Pontiac on Waterford Road, ¼ mile east of Dixie Highway (U.S. 10) in Waterford, Michigan. The easiest route is to Waterford, Michigan. is 21/2 miles. Take Sashabaw south to Pelton Road, then take Pelton west to Waterford Road. The total distance after exiting the expressway take I-75 to the southbound Sashabaw Exit

IN THE HILLS SOUNDS



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WALERFORD



photo by john gacioch

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cover photo john gacioch

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the inside line



Welcome to the start of another superlative racing season at Waterford Hills! This May's races begins the twenty-third year of exciting competition at Michigan's oldest and best road racing facility.

Winter has not been an idle time for WHRRI members. Drivers and workers turned out in droves to patch the track and bring it up to tip top condition, make safety modifications on the guardrails and worker stations, rebuild the PA system and generally paint and fix-it so we all have a super place to race and watch racing. Now you all know that we are a do-it-yourself group from racing to maintenance!

Other changes include incorporating the BP class into GT-1 and shifting cars from one class to another, so check out the racing classes page later on in this "digest".

Most of our WHRRI drivers from last season are back so you can count on cheering on your favorites again! We are welcoming a lot of new drivers from our April competition school. They are the racers sporting that dayglo triangle on the back end which says "nervous novice" so take care when passing. That triangle protects both the passee and the passer!

Besides our super drivers and their crews, we have some excellent volunteer race workers. It takes about 150 "behind the scenes" people to make our race programs run so smoothly. If you'd like to join them or just meet some of us, come to our club meeting the first Wednesday of the month in the O.C.S.C. clubhouse (the big, log building at the entrance) at 8:00 p.m.

Right now, here's a spectating tip for your easier watching. Since we race several classes together most of the time, you will need to know what the writing on the racers really means. The big numbers on the sides and decks are the drivers number-of-record for the races — you can find his name and hometown on the entry list with that number. The small letters (EP, FV, GT-2 or SSC) name the class the car is running in so you can tell who is

really racing with whom! All it takes is a race program, a jug of wine and wow!

We have planned a very special season for everyone to enjoy. To kick off the year there will be a Vintage Car Race the weekend of May 30 & 31, the first of many special events. Personal appearances by your favorite radio and media personalities highlight our summer weekends. Parade laps by local margue club, including the Ford-Mercury Club, the English Car Clubs of Michigan and the Michigan Street Rods, are already scheduled. A second appearance by the Ford Motorsports great road show will be on the spectator hill in July. Special for spectators will be Saturday track rides during the lunch break, so listen for the PA directions. All in all, a great summer to spend at Waterford Hills.

We especially want to welcome back our fans from last year and to say a hearty "Hello!" to those of you who are joining us for the first time.

We will be racing the last full weekend from now through September (check the schedule on the back of the program) so plan right now to come and join us for a full summer of fun!

Happy viewing!!

officials

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photo contest

- WIN a Waterford season press pass
- F HAVE your photo published in the July Waterford Digest
- WIN a \$10 gift certificate to the Waterford Boutique

RULES:

- Photos must have been taken at a Waterford race week-
- Subject-cars, people, or stuff your choice
- Photos will only be returned if accompanied by a stamped self addressed envelope.
- Photos will be judged by the Waterford digest staff photographers.
- Your name must be on the back of the photo.

Dan Hill send to 13864 22 Mile Rd. Utica, Mi. 48087

NOT LATER THAN JUNE 25, 1981

BOB FEHAN

313/549-5410

What is Vintage racing?

by peter quenet

By definition, a vintage car is one which was built prior to December 1, 1961, although later models may also be included provided they are identical with 1961 or prior models.

There are two major North American organizations which cater exclusively to vintage car enthusiasts. Members from both the Vintage Car Club of America and the Vintage Automobile Racing Association of Canada regularly participate in vintage races at Waterford Hills.

One of the most conspicuous features of these cars is the apparent lack of modern safety equipment. It is felt that the addition of roll bars, fuel cells and the like would destroy the essence and character of vintage racing. It should be remembered that, due to the age of these cars and in some cases their rarity, the availability of replacement parts will vary from hard-to-find to non-existent. This fact alone creates a built-in safety factor since, under those circumstances, who would drive beyond the capabilities of either the car or himself? Nevertheless, pre-race inspection is extremely rigorous and every car is fitted with a fire extinguisher and seat belts. Also, drivers must wear the same protective clothing as other racers.

Vintage car racing is becoming increasingly popular and will, undoubtedly, attract more and more competitors as the costs of racing a modern car continue to climb.





1932 morgan super sport



1959 F3 cooper norton 500



1959 F3 cooper norton 500





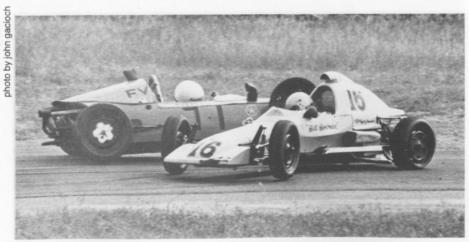








photo by al bize



















photo by john willyard





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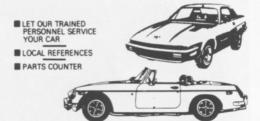
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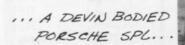
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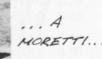
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average lap speed chart

		-9					-
	Min/Sec	МРН	Min/Sec	мрн	Min/Sec	МРН	
	1:00	85.326	1:17	66.488	1:34	54.463	
	1:01	83.927	1:18	65.635	1:35	53.890	
	1:02	82.574	1:19	64.805	1:36	53.329	
	1:03	81.263	1:20	63.995	1:37	52.779	
	1.00	70 003	1.01	63 204	1:38	52.240	
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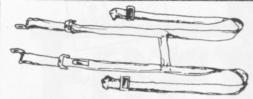
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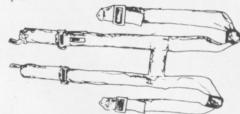
... AND KEN WOODWARDS NEAT HAND BUILT SPYDER.





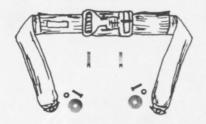
2" SHOULDER HARNESS

Meets new SCCA mandatory safety requirements for all competition cars. To install, you must have new "H Type" floor mount harness. 2" style.



3" SHOULDER HARNESS/SPRING

New "H Type", floor mount harness, 3" style.



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average lap speed chart

Min/Sec	MPH	Min/Sec	MPH	Min/Sec	MPH
1:00	85.326	1:17	66.488	1:34	54.463
1:01	83.927	1:18	65.635	1:35	53.890
1:02	82.574	1:19	64.805	1:36	53.329
1:03	81.263	1:20	63.995	1:37	52.779
1:04	79.993	1:21	63.204	1:38	52.240
1:05	78.762	1:22	62.434	1:39	51.713
1:06	77.569	1:23	61.681	1:40	51.196
1:07	76.411	1:24	60.947	1:41	50.689
1:08	75.288	1:25	60.230	1:42	50.192
1:09	74.197	1:26	59.530	1:43	49.704
1:10	73.137	1:27	58.846	1:44	49.227
1:11	72.106	1:28	58.846	1:45	48.758
1:12	71.105	1:29	57.523	1:46	48.298
1:13	70.131	1:30	56.884	1:47	47.846
1:14	69.183	1:31	56.259	1:48	47.403
1:15	68.261	1:32	55.647	1:49	46.968
1:16	67.363	1:33	55.041		

The Waterford Hills Road Course is 1.4221 miles long (7,509 ft. center line of track). To determine the speed of any individual car, time it for one complete lap and read off the speed from this table.

class records

ASR CSR DSR S/2000	Bob Schneider Evan MacDonald Don Clining Larry Campbell	Mallock U2 M - 2 Meister Honda Lola	1:11.1 1:10.5 1:20.8 1:11.5	5/79 9/78 5/75 9/79	
CP DP EP FP GP HP	Wayne Rogers Karl Nilsson Lou Livengood Barry Hartzel Grant Brady Paul Cameron	Datsun 240Z Porsche 914 Porsche 356 MG Midget Triumph Spitfire Sprite	1:19.4 1:17.5 1:16.3 1:16.2 1:18.9 1:20.4	8/78 9/79 6/80 7/78 9/78 7/78	
GT-1 GT-2 GT-3 GT-4	Bill Wink J. Byron Walker Dave Huard Ross Becker	Camaro Datsun 510 Toyota Mini	1:17.4 1:16.5 1:18.9 1:20.6	5/80 9/80 7/80 8/80	
SS/A SS/B SS/C	Bobby Fehan Thad Gutowski Marc Robling	Mustang II Scirocco Pinto	1:27.4 1:29.6 1:30.1	7/80 9/76 9/80	
FF FV **F/ALTC F/CNTL F4 F440	Vince Muzzin Vince McLeod Vince Muzzin Charles Van Acker Robert Long Greg Assenmacher	Royale Lynx March Lola Xpit Stinger	1:09.4 1:16.5 1:06.7 1:09.8 1:13.2 1:19.0	6/78 7/79 5/75 8/79 9/79 7/80	

^{**}track record

racing classes

To insure fairness in competition, all road racing cars are grouped into racing classes by the Sports Car Club of America in its General Competition Rulebook (GCR). Waterford Hills Road Racing observes the GCR regulations with some minor exceptions.

The five competition groups are: Production (sports cars), Showroom Stock (GT cars and sports cars with minimal modification), Sports Racing (highly modified engine and body over wheels). GT (enclosed cockpit passenger cars and former big production cars), and Formula (open wheels and single cockpit). Race groups are subdivided into classes of equally competitive cars based upon engine size and handling characteristics.

The cars listed below are representative of their racing classes and include most of those you will see at Waterford Hills

PRODUCTION

- CP Datsun "Z" series, Mazda RX7, Porsche 914/6 & 924 Turbo, Sunbeam Tiger, Triumph TR-6 & TR-8
- DP Lotus Super 7, Datsun 2000, Triumph GT-6, Yenko Stinger, Porsche 914-S
- EP Porsche 356 series, MGB, Opel GT, Porsche 914/4, Triumph TR-4
- FP Saab Sonnet, MG Midget Mk III & IV, Lotus 7, Triumph Spitfire Mk III & IV &
- GP MG Midget Mk I & II, Triumph Spitfire Mk I & II, MGA, Porsche Coupe,
- Austin Healy Sprit 1100, Fiat X1/9, Fiat 124 Spider HP Austin Healy Sprite Mk I & II, Fiat 850, MG Midget 948, Fiat Abarth

SHOWROOM STOCK

- SSA Porsche 924, Datsun 280Z, Capri V-6, Mustang Cobra, Mazda RX-4 & RX-7
- SSB Datsun 200 SX, Fiat 124, Scirocco, Dodge Colt
- SSC Pinto, VW Rabbit, Renault LeCar, Mustang 2.3, Fiesta, MGB Pontiac Astre, Honda Civic, Toyota Carolla

SPORTS RACING

- ASR over 1300 cc but less than 6000 cc
- CSR over 850 cc up to 1600 cc (with restrictions)
- DSR below or equal to 850 cc
- S/2000 uses Ford 2000 cc overhead cam engines only

GT CLASSES

- GT-1 Camaro, Dodge Aspen, Ford Cobra II, Corvette, Shelby GT-350, Porsche
- GT-2 Opel 1900, Datsun 510 1800, Mustang 2300, Pinto 2000 & 2300, Cosworth
- GT-3 Ford Escort/Lynx, VW Scirocco, VW Rabbit, Datsun 200 SX, Mazda RX 2, Toyota Celica, Pinto 1600, Fiat 124 Sports Coupe, Datsun 510 1600, Dodge Colt, Toyota Carolla 1600
- Honda Civic, Austin/Morris Mini Cooper, VW 1300, NSU TT, Renault LeCar, GT-4 Fiat 124 1200, Toyota Corolla 1200

FORMULA

- Formula Ford Cortina or Pinto 1600 cc engine, strict weight to engine ratio FF
 - with driver's weight included in total legal weight, very equal calss
- F۷ Formula Vee - all Volkswagen components, 1200 cc engine, driver's weight included in total legal weight, very competitive class
- F/AKTC Formula Atlantic - choice of engines in over 1100 cc up to 1600 cc range, wings and other modifications allowed, not meant to be an inexpensive race
- car F/CNTL Formula Continental - engine up to 1100 cc. rear wings allowed, combines
- the modifications of the previous Formula C and Formula Super Vee classes F440 Formula 440 - utilizes Fuji two-cycle snowmobile engines and drive train,
 - rigid suspension, wings permitted
- Formula Four Canadian class, motorcycle engine power plant, engine size F4 determines weight and transmission allowed

flags

vellow with red stripes



Take care, oil has been spilled or a slippery condition exists somewhere in your vicinity. Look at the track

black



Sloppy or dangerous driving. Complete the lap you are on, then stop at the Start/Finish line for consultation with the Chief Steward.

black with orange ball



(Meatball black flag) There is something mechanically wrong with your car. Proceed to your pits at reduced speed.

green



(Or no flag) Course is clear.

vellow



(Stationary) Take care, danger, no passing. (Waving) Great danger, be prepared to stop, no

red



Stop immediately, clear the course as well as circumstances permit; the race has been stopped.

blue with diagonal yellow stripes



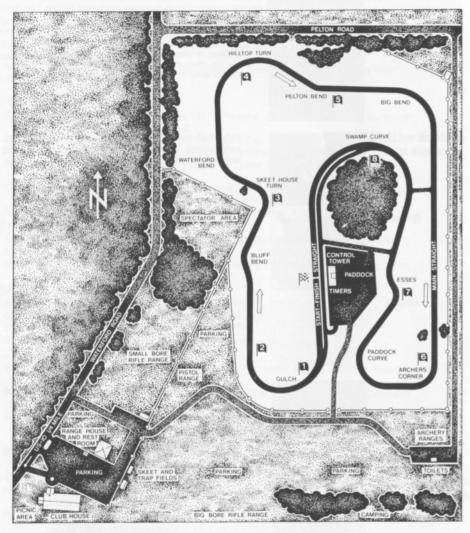
(Motionless) Another competitor is following you closely.

checkered

You have finished the race (or practice session). Complete one "cool-off" lap at reduced speed before entering the pits.

waterford hills course map

a 1.5 mile asphalt road course at waterford, michigan





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