



Construction delays of the course for the 2004 Olympic marathon course held up its final measurement until the 11th hour. Fortunately, a top-notch crew of international measurers was able to get the job done in time. Pictured at the finish in historic Panathinaiko Stadium are (L to R) Hugh Jones, Norrie Williamson, Jean-Marie Grall (in charge).

MEASUREMENT NEWS

#129 – SPRING 2005

Editor: Jim Gerweck 156 Fillow Street, Norwalk, CT 06850-2315.

Telephone: 203-838-2748 (home, not after 10 PM Eastern time) FAX: 203-838-2748 (home - call before faxing) Email: zgerweck@optonline.net **RRTC Chairman**: Mike Wickiser 2939 Vincent Road, Silver Lake, OH 44224.

Phone/fax: 330-929-1605 Email: MikeWickiser@neo.rr.com

ABOUT MEASUREMENT NEWS

Measurement News (MN) is the newsletter of the Road Running Technical Council (RRTC) of USA Track & Field (USATF). MN is our way to talk to one another, so that we all know what's going on.

MN is also sent to many foreign measurers associated with AIMS and IAAF, who are also invited to participate in the dialogue.

MN is published quarterly beginning in spring (four issues per year). MN is sent free to RRTC officers and certifiers, and AIMS/IAAF measurers.

If you wish to reproduce or report on anything in MN, go ahead, but an attribution would be appreciated.

MN wants to make road course measurement as good as it can be. All opinions and grievances are solicited. No cows are sacred. If you have a new measurement technique, or if you think things should be done differently, send in your contribution to MN. Your opinion will be given space. Nothing changes until somebody tries!

Electronic copy or clean typed material is most welcome, but send what you can.

Deadlines: Material intended to be included in the Summer 2005 issue must be in the Editor's hands by May 20. Next issue will be mailed in early summer 2005.

ROAD RUNNING TECHNICAL COUNCIL

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A complete USATF measurement book can be downloaded from this site.	attachments please). Also, please send only plain text; i.e., avoid formatted (HTML) messages (If you use HTML format- ting, the formatting will be removed).

Chairman's Clatter - From Mike Wickiser

January Measurement News??? What happened to January MN? Very limited activity both in the area of MN submissions and MNForum. Have we said all there is to be said on course measurement? Probably not, but certification does slow down during the winter months when riding a bike on ice and snow is simply out of the question. Assuming things pick up MN should get back on track with issues every other month. Measurement News is what each of you readers make it. The content is a direct result of your letters and comments.

Retirements and Changes: Long time certifier Bob Harrison has chosen to retire as MS certifier. A while back Bob helped get Dave Rogers started out as TN certifier and Dave has assumed Mississippi as well.

Doug Loeffler as some of you may know has his own home based business. After some pretty lean years Rail Technologies is starting to pay off and requires more of Doug's time as it begins to be profitable. For this reason Doug felt it best if he relinquished the Validations Chairman's position to someone who could devote the proper time to the job. As luck would have it, VC East Paul Hronjak also saw career changes and suddenly had time to volunteer. No he didn't retire; he just changed hours around and found more time as a result. Time, talent and a willingness to volunteer made for Paul now being a two fer'. In addition to being the VC East, Paul Hronjak is the Validations Chairman.

Many many thanks to Doug for his years of hard work and diligent attention to the Validations position.

Bernie Conway: Bernie's health has been a topic recently since he became ill at the airport awaiting the IAAF annual meeting in New Dehli. Well Bernie informs me that he is walking his way back to his former health and vitality. He recently took on the task of doing some supply (substitute) teaching. Three different schools in as many days and teaching drafting, French, careers, and woodworking instead of his usual science & physics. After that stint, "measuring a half marathon will be most welcome."

Mike Suchenes

Editor's Note

Last Measurement News??? "Communication Breakdown" might have been a huge hit for Led Zeppelin, but it's bad news for the measurement community. Activity on MNF and Pete Riegel'sbulletin board has been slow to non-existent, and submissions to Measurement News have come from just the usual suspects. Unless others begin to take a more active role in the exchange of ideas, all of these channels of communication may wither up and die. Right now MN is being published on a quarterly basis to reflect the diminished material; any further drop in submissions may push it inot oblivion. If you have anything to share, please email it to the addresses on the masthead.

Olympic Marathon Measured

A note from Hugh Jones to Jean-Francois Delasalle, Pete Riegel and Norrie Williamson reads:

"I received an enquiry from Rodolfo Eichler about the Athens course to which I replied as below. I am copying this to you separately (and have informed Rodolfo of this) because the second part of the message concerned an unrelated matter.

Dear Rodolfo,

Funny you should ask me about Athens. I was there this last weekend, measuring the course. This was not my official duty, which had been given to Jean-Marie Grall (FRA). I know Jean-Marie from 8 years ago, when we were in Atlanta under Pete Riegel's chieftainship. I have seen him regularly at the Paris Marathon since then. He was the appointed measurer in Athens, as I had been in Sydney. No-one else had any official role.

However, two of us expressed interest in attending informally. This was myself and Norrie Williamson (RSA). I became mandated for Jury Service here in UK in the period for which the measurement was scheduled. I thought I would not be able to attend, but managed to get flights limited to within the weekend (out 23.00 23/07, back 20.00 25/07) - so I did get to court on time this morning (10.30).

We measured the course in Athens twice - on Saturday (16.30-19.30) for length, and then on Sunday (08.30-13.30) for locating split kilometres. All three of us did the measurement on Saturday, but Jean-Marie took charge of the marking of the kilometre points on the Sunday, according to re-measurements of the course (on the Sunday) by Norrie and I. Our shortest Saturday measurement was 42,184m, so Jean-Marie retracted the start line by 11m for our Sunday exercise. Our Sunday measurement was only to locate intermediate kilometres (on Saturday we had references near every 5km point, and we readjusted our Sunday measurement according to these reference points)

I think that the certification of the course may be the duty of Jean-Francois Delasalle, but I cannot be sure of this. Ultimate responsibility may lie with Jean-Marie Grall."

The following from Jean-Marie Grall to Pete Riegel:

Dear Pete,

Thanks for all your remarks.

There's no problem to send my report to other people. It's ok as there's no secret ...

Referring to the Marathon report, reference marks were made by me in 2003 when I measured the Athens classic marathon, but, for the games, the road was slightly modified.

Cheers,

Jean-Marie

Following from Pete Riegel:

Jean-Marie sent Pete Riegel a CD containing his comprehensive 91 page report of the measurement, with color maps, photographs of every split, complete measurement results. It is a masterpiece. Nobody documents as well as Jean-Marie Grall. Pete Riegel has added the report to the Archival CD, which contains scores of technical reports, manuals, and measurement reports from Olympics and World Championship races. Contact Pete Riegel if you want one. Cost is \$5.00 postpaid.

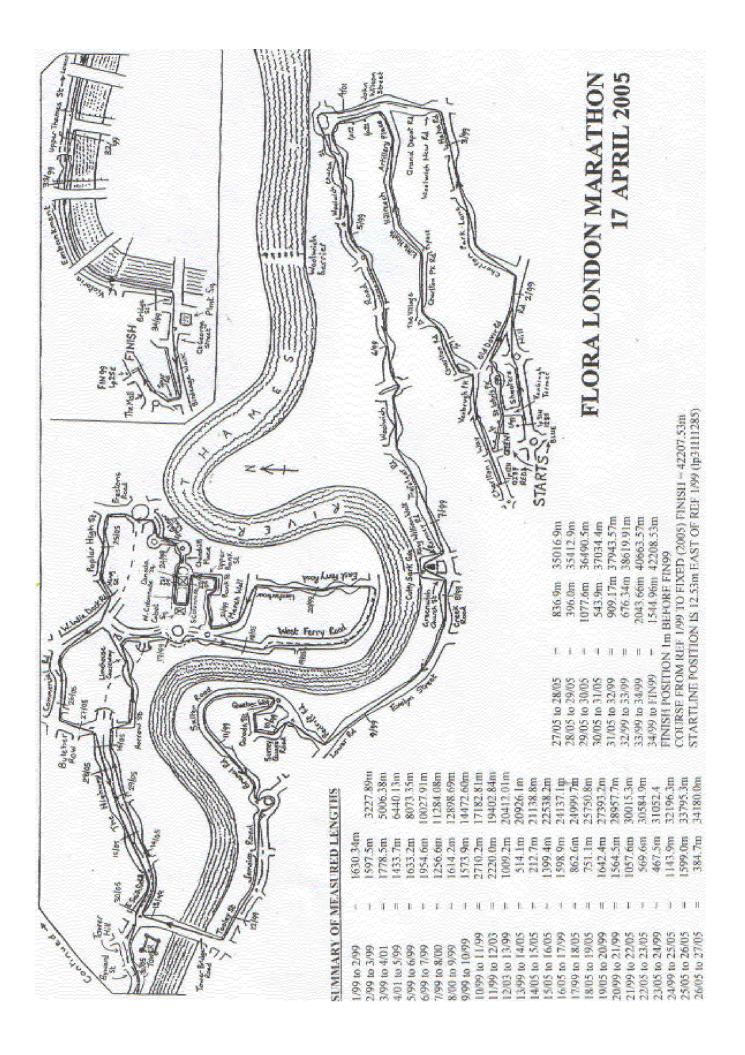
Measurement Tip: Digital Split Points

Got a digital camera? Got a CD burner? If so, you can give a race director a little bit extra next time you measure a course. Just photograph the splits after you get them painted. Take a ton of pictures – after all, once you have the equipment they cost you nothing but a little time, plus a dime for the CD. Put them on a CD and send it to the race director.



The photos also serve to refresh your memory when you are writing up the measurement.

Pete Riegel riegelpete@aol.com



London Marathon course changes

by Hugh Jones

A year ago Evans Rutto and Sammy Korir were neck and neck, 36.4km into the Flora London Marathon. Then they were a tangle of limbs as they crashed to the floor together outside the doors of the race headquarters hotel.

This is where the course takes the first of a double bend on a glazed brick surface, and it was wet. There have been few wet London Marathons over the 24 editions held so far, but I remember hitting this same spot in the 1986 race, when I was lying a distant second to Toshiheko Seko, and suddenly feeling my feet slipping out from under me, although I managed to keep upright.

Rutto and Korir's spill, captured in detail by the cameras, prompted the race organisers to re-think this part of the course. This section in frontof the race hotel hadalways been crowded with spectators, sometimesto the extentof endangering public safety. It about 100m before passing underTower Bridge and onto the cobbles in front of the Tower of London.

The cobbles have historically been another obstacle to fast running in London, as runners often lose their rhythm here, their muscles jolted by uneven foot placement (these cobbles are 'historic', with an appropriately sculpted profile). But they had become part of the 'tradition' of the course - alongside the carpeting laid over them which did nothing to lessen their impact and often tripped back markers as it got rucked up.

This section of the course was also very photogenic. Since recent reconstruction around the Tower has been finished, new camera angles have opened up. The BBC pronounced themselves satisfied with the proposed new route to go around the back of the Tower, over Tower Hill rather than along Tower Wharf on the riverfront.

This change cuts about 600m from the course, removes all the cobbled sections and cuts out nine corners. Furthermore, the description Tower "Hill" dramatises the geography. The gradients must have seemed mountainous to those who walked up from the Tower to the executioner's block in Tudor and Elizabethan times, but to modern day elite marathon runners it's more like a pimple. It does insert a rise where none existed before, but that rise is only from 8.2m to 13m over about 300m - and of course runners then have that extra bit of gravity as they rejoin the old route west of the Tower.

From the measurement aspect two tasks remained one was to insert a new stretch of road to make up for the missing distance (the finish line is fixed, and the start position can only vary by about 20m to avoid messing up those precious camera angles).

We found this distance in Canary Wharf, the Dockland office development that the marathon loops around between 24-33km. Instead of running right through the Wharf itself, the route now describes an S-bend, doubling back before continuing on its way. This was inserted in what has become the 19th mile, either side of the 30km point, which itself now lies almost at the doors of Canary Wharf Tower, the tallest bulding in Britain (at a paltry 800'/244m). Six new corners were added in, and two were taken out from the equivalent section of the old route.

> One leisurely Sunday afternoon measurement of a few new bridging sections reassured us that the numbers would add up, but the configuration of the route was slightly more complicated. As runners come off Tower Bridge at 20.4km they turn right, at the start of a 16km-long loop to the east,run counter-clockwise. When they completed this loop they passed underneath Tower Bridge, onto the cobbles. If they returned on the same road on which they went out, then slower runners would block the roadfor the front runners. That required loop to now be run clockwise, so that runners started it on the south side of the road (against the normal direction of traffic) and finished, running west, on the north side.

Because the loop was previously very close to 7miles (with another 1.5 miles out-and back on

the same road) the old mile reference points for 22 miles down to 17 miles became the new reference points for miles 13 to 18. The additional distance in the 19th mile required new reference points to be established from 30km through to 23 miles, just before the new route rejoins the old course. Then it's the same grand finale as ever: around the long bend in the river towards Big Ben, and the final miles through St James's Park to finish on The Mall in front of Buckingham Palace.

Publicity announcing the new route declared it to be up to a minute quicker than the old one. This is publicists' licence. A few corners have been removed along with the cobbles and aslight rise inserted. the time saving is ordinarily likely to be just a few seconds. But it could be a minute, or more, for those runners who might otherwise have had the stuffing knocked out of their legs by the sculpted cobbles of Tower Wharf. Or those who may have otherwise ended up as a tangled heap of limbs on the doorsteps of race HQ.

Measurement of the Month

The Don Scott Trot – A 5k on the Runway

By Pete Riegel

The Ohio State University Airport is located in north Columbus, Ohio. It was named Don Scott Field in honor of the former All-American athlete who died in a bomber crash in England on October 1, 1943.

I was contacted by Doug Grout, who plans to hold a race at the airport next July in conjunction with some Airport aerial festivities. He sent me a description of the proposed route as described by his airport contacts. I immediately set to work to do what I could to see whether the proposed route would come out to the desired length.

The first step was to get a good scale map of the airport. I went to the airport's web site and did not find exactly what I was looking for. However, I did obtain an aerial photo of the runways and a detailed description of each one, including their elevations and length.

Some time ago I obtained a copy of Accuroute, which is a map-scaling program. You import a map or diagram, and use a built-in calibration algorithm. Then you draw a path, and the program tells you how long it is. You can download a test version from <u>http://www.accuroute.co.uk</u>.

The aerial photo had no scale attached to it. However, the longest runway was noted as having a length of 5004 feet, so I used this as my calibration value and plotted the proposed route. It looked like it might work.

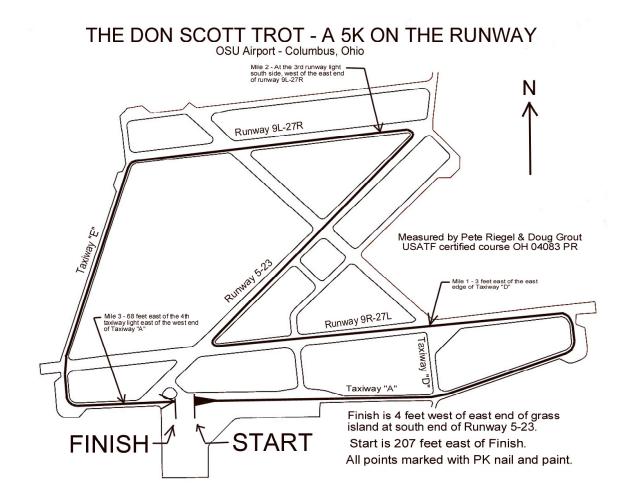


The course as plotted by Accuroute

While I've found that Accuroute works well, the answers are only as good as the calibration and tracing, and the quality of the map or photo. I wondered whether I had picked the right points on the ends of the runways for my calibration, but reasoned that I couldn't have been all that far off and the result was certainly good enough for preliminary work.

Doug and I met in the coffee shop at the airport, and were joined by Dale, who was to escort us around the runways as we measured. While I thought the course would work out, I was reluctant to lay down splits on the first ride, even though Doug had calibrated his bike so as to measure with me. Instead we began at the finish and rode the course backwards, stopping at my calculated start line. Dale preceded us in a truck, and instructed us never to pass him. He was in contact with the control tower, and we stopped several times enroute while a plane took off or landed.

The start and finish were closer together than the mapwork had predicted, but acceptable, so we laid down the three, two, and one mile splits on the next ride, which agreed with the first. Dale painted each split and put in PK nails as we rode.



This was the second course I've measured on an airport, and it was a lot more fun than the first. There's no traffic on the roads and no hills. The only potential problem – which turned out not to be a problem – was documenting the locations of the splits on the vast airport plain. It turned out that runway and taxiway lights were abundant, and made good reference points.

USATF/RRTC CERTIFIED COURSE LIST New Entries, November - December 2004

DISTANCE	COURSE ID	STA	LOCATION	COURSE NAME/RACE	m/km DROP		МЕ	ASURER	REP	PLACES
5 km	AL 04017 JD	А	Huntsville	Spirit of Halloween 5k	0.0	1	С	Jones	AL	99017 JD
5 km	AL 04017 JD	A	Tuscumbia	Heart Run 5k	0.0	1	D	Michael	AL	99017 JD
5 km	AL 04021 JD	A	Birmingham	'04 Hog Jog 5k	1.0	2	R	Melanson		
20 km	AL 04022 JD	A	Birmingham	'04 Hog Jog 20k	0.3	1	R	Melanson		
5 mi	AL 04024 JD	A	Northport	Roger Prichett Mem. Wildcat 5M	0.2	2	R	Carroll	AL	04020 JD
5 km	AL 04025 JD	A	Birmingham	UAB 5k Classic - Run For Home	0.0	2	R	Melanson	<i>,</i>	01020 02
5 mi	AL 04026 JD	A	Gardendale	North Jefferson Charity Run	0.0	0	R	Melanson	AL	91027 JD
						-				
10 km	AR 04004 DLP	А	Rogers	Run For A Child	-0.1	2	С	Knott		
42.195 km	AR 04005 DLP	Α	Mountain Home	Mountain Home Marathon	2.1	31	В	Torrey		
21.0975 km	AR 04006 DLP	Α	Gentry	Ozark Academy Half Marathon	0.7	11	С	Knott		
5 km	AR 04007 DLP	Α	Little Rock	Run For Their Lives 5k	0.6	2	G	Ballard	AR	99005 DLP
42.195 km	AZ 04009 GAN		Tucson	Tucson Marathon	15.2	95	G	Newman	ΑZ	04003 GAN
21.0975 km	AZ 04010 GAN	A	Tucson	Tucson Half Marathon	10.3	74	G	Newman	ΑZ	04002 GAN
	. .					-	_			
5 km	CA 04015 TK	A	San Francisco	Run to the Far Side 5k	0.0	9	Т	Knight	CA	87032 CW
10 km	CA 04016 TK	A	San Francisco	Run to the Far Side 10k	0.0	2	Т	Knight	CA	03016 TK
5 km	CA 04037 RS	A	San Francisco	Dolores 5km	0.0	1	В	Dake		
1 mi	CA 04038 RS	A	San Francisco	Dolores Mile	0.0	10	В	Dake		
Cal	CA 04039 RS CA 04040 RS	A	Newport Beach	Pacific Coast hwy. 1000 ft.	0.0	100		Scardera		
21.0975 km		A	Newport Beach	Orange County Half Marathon	2.9	8	R	Scardera		
5 km	CA 04041 RS CA 04042 RS	A	Newport Beach	Orange County 5km	0.0	6	R R	Scardera		
Cal	CA 04042 RS CA 04043 RS	A	Newport Beach	University Dr. 1000 ft.	0.0	100		Scardera		
42.195 km 5 km	CA 04043 RS CA 04044 RS	A	Newport Beach	Orange County Marathon	1.4	4	R R	Scardera Scardera		
10 km	CA 04044 RS CA 04045 RS	A	Los Angeles Los Angeles	Say No to Drugs 5k Say No to Drugs 10k	0.0	0 0	R	Scardera		
10 km	CA 04045 RS CA 04046 RS	A A	San Diego	Hospitality Point One Mile	0.0 0.0	0	R	Letson		
21.0975 km	CA 04040 RS	A	Chico	Bidwell Classic Half Marathon	0.0	2	D	Welch		
21.0975 km	CA 04047 RS	a	San Francisco	San Francisco Classic Mile	0.0	16	В	Dake		
Cal	CA 04049 RS	A	Vacaville	Leisure Town Rd. 2640 ft.	0.0	100	R	Sturgeon		
Oui	0/1 04040 110		Vadaville		0.0	100		olargeon		
5 km	CT 04021 PH	А	Willimantic	ACT Scholarship 5k	0.3	7	D	Bolt		
5 km	CT 04022 PH	А	Manchester	Parker Holt 5k	0.3	1	Т	Brown		
5 km	CT 04023 PH	Α	Milford	Platt Tech 5k	0.0	2	В	Stephenson		
5 mi	DC 04003 JS	Α	Washington	Navy 5 Mile	0.0	0	J	Sissala		
42.195 km	DC 04004 RT	Α	Washington	Marine Corps Marathon	-0.5	2	R	Thurston		
10 mi	DC 04005 RT	Α	Washington	Army Ten Mile	0.2	5	R	Thurston		
5 km	DC 04006 RT	Α	Washington	Arch 5k	0.0	0	R	Thurston		
							_			
5 km	FL 04059 DL	A	Jacksonville	Pace 5k Run/Walk	0.0	1	D	Alred		
5 km	FL 04060 DL	A	Miami	Run for the Cure 5k	0.0	4	G	Witkowski		
5 km	FL 04061 DL	A	Casselberry	The Autumn Rock & Run 5k	0.2	3	Т	Ward		
5 km	FL 04062 DL FL 04063 DL	A	Tampa	Hidden River 5k - 2004 Hidden River 10k	0.0	12 0	E E	McDowell McDowell		
10 km 10 km	FL 04063 DL FL 04064 DL	A A	Tampa Lake Buena Vista	Disney 10k Classic 2004	0.0 0.3	73	T	Ward		
8 km	FL 04064 DL FL 04065 DL	A	Naples	Halloween Crazy 8k	0.3	8	M	Sonneborn		
21.0975 km	FL 04066 DL	A	Coral Springs	Halloween Half Marathon	0.0	1	G	Witkowski		
5 km	FL 04067 DL	A	Parkland	Scholarship Run 5k	0.0	4	G	Witkowski	FL	99062 DL
42.195 km	FL 04068 DL	A	W. Palm Beach	Palm Beach Marathon - alt.	0.0	0	D	Loeffler		55002 DL
1 mi	FL 04069 DL	A	W. Palm Beach	Palm Beach Marathon - 1 Mile	0.0	0	D	Loeffler		
10 km	FL 04070 DL	A	Parkland	Scholarship Run 10k	0.0	2	G	Witkowski	FL	99063 DL
Cal	FL 04072 DL	A	Clermont	South Lake Hospital 300 meter	0.0	100		DeNoon	_	
2.5 km	FL 04073 DL	A	Clermont	Lake Louisa 2500 meter	0.0	0	D	DeNoon		
5 km	FL 04074 DL	A	Tampa	Pace Race 5k	0.0	1	A	Johnson		
10 km	FL 04075 DL	А	Tampa	Hidden River 2004 10k	-0.2	6	Е	McDowell		
5 km	FL 04076 DL	Α	Tampa	Hidden River 2004 5k	-0.4	12	Е	McDowell		
5 km	FL 04077 DL	А	Hollywood	Orange Bowl Trek 5k	0.0	2	G	Witkowski		
Cal	FL 04078 DL	Α	TheVillages	Polo Ground 100 ft. Calibration	0.0	100	J	Smith		
			_					_		
5 km	GA 04021 WC	Α	Cartersville	Home Run 5k Road Race	0.0	0	W	Cornwell	_	
10 km	GA 04022 WC	A	Savannah	Savannah River Bridge Run	0.0	2	J	Fornaro	GA	98007 WC

Cal	HI 04	4090	PR	А	Lahaina	Wainee Street 1000 ft.	0.0	100	R	Pate		
21.0975 km	HI 04	4091	PR	А	Lahaina	Maui Surf & Sand H'MAR	11.7	69	R	Pate		
5 km	II 0/	4109	۱\٨/	А	Morris	5k Fun Run	0.0	0	С	Hinde I	L	02083 JW
5 km		4110		A	Chicago	UNCF Walkathon	0.0	0	c	Hinde	L	02003 310
5 km		4111		Â	Aurora	Have No Mercy 5k	0.0	2	c	Hinde		
5 km		4112		A	Aurora	Sweetness 5k Upland Alternate	0.0	4	J	Wight		
10 km		4113		A	Aurora	Sweetness 10k Upland Alternate	0.0	4 5	J	Wight		
5 km		4113		A		Bucktown 5k	0.0	0	N	0	L	99039 JW
5 km		4116			Chicago Lisle	Morton Arboretum 5k		2	C	Marquez I Hinde	L	99039 11
5 km		4117		A	Chicago	Memory Run 5k	0.0 0.0	2	c	Hinde		
10 km		4117		A A	Oak Park	5	0.0	4	N			
-						Frank Lloyd Wright 10k		4	C	Marquez		
4 mi		4122		A	Chicago	Fitness Mind, Body, Spirit	0.0		c	Hinde Hinde		
5 km		4123		A	Crest Hill	Jingle Bell 5k	0.0	4				
5 km		4124		A	Chicago	Liver Walk Run	0.0	0	C	Hinde		
5 km		4125		A	Chicago	Comer Kids Classic	0.0	4	С	Hinde		
8 km		4127		A	Chicago	Goose Island Turkey Trot	0.0	0	N	Marquez		04407 114/
5 km	IL 04	4128	JVV	A	Batavia	Fox Trot	0.0	1	С	Hinde I	L	01107 JW
10 km	IN 04	4079	PR	А	Elkhart	The Great Race 10 km	-0.6	70	Р	Riegel I	N	97010 PR
5 km		4080		А	Elkhart	The Great Race 5 km	-1.2	80	Р	0	N	97009 PR
21.0975 km		4081		A	Elkhart	Amish Country Half Marathon	0.7	51	P	0	N	04013 PR
2.100.0.1							0.1	0.	•	. noget		
5 km	KS 04	4047	BG	А	Overland Park	Sprint 5k	0.0	3	Κ	Raymer		
5 km	KS 04	4048	BG	А	Wichita	WSU Spring 5k	0.0	2	С	Ensz		
5 km	KS 04	4049	BG	А	Wichita	Link 4 Life	0.0	4	С	Ensz		
2 mi	KS 04	4050	BG	А	Wichita	Black Arts Festival	2.8	90	С	Ensz		
21.0975 km	KS 04	4051	BG	А	Wichita	Wichita Half Marathon	0.0	1	C	Ensz		
8 km	KS 04			A	Wichita	Journey 2-Gether	0.0	1	Č	Ensz		
4 mi	KS 04			A	Wichita	Jingle Bell '04	0.0	0	Ċ	Ensz		
42.195 km	KS 04			A	Wichita	Wichita Marathon	0.2	46	Č	Ensz		
5 km	KS 04			A	Wichita	Frosty Five	0.0	4	Ľ		٢S	03057 BG
0							0.0	•	-			
5 km	MA 04	4017	RN	А	Waltham	Halloween Hustle 5k	0.5	6	R	Nelson M	٨N	02017 RN
5 mi	MA 04	4024	RN	А	Weymouth	Dreamcatcher Classic	0.0	0	R	Nelson M	٨N	96015 RN
5 mi	MA 04	4026	RN	А	Boston	Ollie Road Race 2004	0.4	11	S	Vaitones M	٨N	03022 RN
10 km	MA 04			А	Boston	Tufts 10k for Women	0.8	2	S		٨N	03001 RN
42.195 km	MD 04			Α	Baltimore	Under Armour's Marathon	0.0	2	J		ИD	03010 JS
21.0975 km	MD 04	4009	JS	Α	Baltimore	Care First Half Marathon	0.0	3	J		٨D	03011 JS
5 km	MD 04	4010	JS	Α	Kensington	Cardinal 5k	0.0	1	Ρ	Quinn		
5 km	MD 04	4011	JS	Α	Hagerstown	Fall Parks & Rec Trek 5k Run	2.4	29	Т	O'Keefe		
42.195 km	MD 04	4012	JS	Α	Sparks	Northern Central Trails Marathon	0.0	1	J	Sissala M	٨D	02021 JS
5 km	MD 04	4013	JS	Α	Towson	Towson YMCA Turkey Trot 5k	0.0	5	J	Sissala		
8 km	MD 04	4014	JS	Α	Hyattsville	Outback Steakhouse 8k	0.0	0	J	Sissala M	٨D	01011 JS
Cal	MD 04	4015	JS	Α	Piney Point	Piney Point Rd. 300 meter	0.0	100	L	Recto		
5 1		1011		•	0		0.0	0	-	Tites at sink at	45	04000 \\\\\
5 KM	ME 04	4011	RF	A	Saco	Kerrymen Pub 5k & Mary's Walk	0.0	9	R	Fitzpatrick M	ИE	01009 WN
5 km	MI 04	4012	SH	А	Grandville	Grandville Rotary	0.0	7	R	Dewey M	AI.	03019 SH
21.0975 km		4018		А	Walker	Grand Rapids	0.0	0	D	Kern		
42.195 km	-	4019	-	A	Walker	Grand Rapids	0.0	0	D	Kern		
5 km	MI 04		-	A	Jenison	Reformation Run	0.0	4	R		ЛI	03022 SH
10 km	MI 04			A	Detroit	Turkey Trot	0.0	0	S	•	ЛI	97030 SH
-	-	-	-					-	-			
5 km	MN 04	4034	RR	А	St. Paul	Winter Carnival	0.0	0	Е	Paulson		
21.0975 km	MN 04	4035	RR	Α	St. Paul	Winter Carnival	0.0	0	Е	Paulson		
5 km	MN 04	4036	RR	Α	Northfield	Turkey Day	0.9	6	Е	Paulson		
5 km	MN 04	4037	RR	Α	Minneapolis	Arena	0.6	8	D	Wright		
5 km	MN 04	4038	RR	А	St. Joseph	Snowflake Shuffle	0.0	8	Т	Reagan		
	MO 04			A	Kansas City	Zoo Run	1.4		L	Joline		
	MO 04			A	Kansas City	Zoo Run	0.7	14		Joline		0.4000 D.O
42.195 km				A	St. Louis	Spirit of St. Louis Marathon	0.0	0	J	Neuschwander M		04009 BG
21.0975 km	IVIO 04	4057	ВĠ	A	St. Louis	Spirit of St. Louis Half Marathon	0.0	0	J	Neuschwander N	VIU	04010 BG
Cal	NC 04	4073	РН	А	Mecklenburg County	Bob Beatty Rd. 1000 ft.	0.0	100	р	White N	١C	96032 PH
Cal	NC 04			A	Ocean Isle Beach	Laurenburg 2000 ft.	0.0	100		Dykes		50002 111
5 km	NC 04			A	Ocean Isle Beach	Oyster Festival 5k	0.0	100	н	Dykes		
10 km	NC 04			A	Ocean Isle Beach	Oyster Festival 10k	0.0	0	Н		١C	97039 PH
5 km	NC 04			A	Claremont	Claremont/Shuford YMCA 5k	0.0	2	Т	Rhodes	10	57055111
U KIII							5.0	-	'			

10 km	NC 04078	РН	A	Claremont	Claremont/Shuford YMCA 10k	0.0	1	т	Rhodes		
10 km	NC 04079		A	Fort Bragg	Jingle Bell 10k	0.0	1	J	Ramirez		
8 km	NC 04082	PH	А	Raleigh	Dalmatian Dash 8k	0.0	0	Ν	Wood		
10 km	NC 04083	PH	А	Huntersville	Fall Harvest 10k	-0.5	2	Т	Long		
5 km	NC 04085		А	Chapel Hill	Southern Village 5k	0.0	0	Ν	Wood		
21.0975 km	NC 04086		А		Ocean Island Half Marathon	0.0	0	F	Guy		
5 km	NC 04087	PH	A	Ocean Island Beach	Ocean Island 5k	0.0	1	F	Guy		
5 km	NH 04017	RF	A	Manchester	DWC 5k Turkey Trot	3.1	77	R	Fitzpatrick		
5 km	NJ 04044	LMB	А	Lyndhurst	Meadowlands 5k	0.0	3	J	Parks		
5 km	NJ 04045	LMB	А	Harrington Park	Harrington Park 5k	-0.9	2	Ρ	Hess		
10 km	NJ 04046		А	Warren Twp.	Mountain Top 10k	0.6	2	L	Baldasari		
8 km	NJ 04047		А	Glen Ridge	Ashenfrelter 8k	0.0	0	J	Parks		
1 mi	NJ 04048		A	Glen Ridge	Ridger Romp	0.0	0	J	Parks		
10 mi	NJ 04049		A	West Windsor	USATF-NJ 10 Mile Championship	0.0	0	L	Baldasari		
5 km	NJ 04050 NJ 04051		A	Burlington Twp. West Caldwell	Green Acres Park 5k Run Through the Caldwells 5k	0.0 -1.2	5 1	L L	Baldasari Baldasari		
5 km 10 km	NJ 04051		A A	Paramus	Terri Roemer Paramus 10k	0.0	1	J	Parks		
5 km	NJ 04052		A	Paramus	Terri Roemer Paramus 5k	0.0	2	J	Parks		
0						0.0	-	•			
5 km			А	Mineola	Mineola Mustang 5k	0.6	4	D	Katz		
Cal	NY 04038		А	Greece	Clearwater Circle 1000 ft.	0.0	100		Lucas		
8 mi	NY 04039		Α	Greece	Freezeroo #5 - 8 Mile	0.0	1	K	Lucas		
5 km	NY 04040		A	Clifton Springs	5km Eagle Run X-C	-0.6	1	K	Lucas		
10 km	NY 04041		A	Ogden	Freezeroo #1 - 10km	0.0	1	K	Lucas		
6.385 mi	NY 04042		A	Perinton	Freezeroo #4 - 10km -ish	0.0	0	K	Lucas		
10 km 5 km	NY 04043 NY 04044		A	Perinton	Freezeroo #4 - 10km Freezeroo #3 - 5km	0.0 0.0	3 0	K K	Lucas Lucas		
5 km	NY 04044		A A	Irondequiot Honeoye	Honeoye 5 km	0.0	6	ĸ	Lucas		
3.5 mi	NY 04045		A	New York	Chase Corp. Challenge	0.0	0	P	Hess		
5 km	NY 04051		A	Hornell	Hornell YMCA 5k	0.0	1	G	Tillson		
Cal	NY 04052		A	Garden City	Nassau CC W.Ellington 1000 ft.	0.0			Westerfield		
5 km	NY 04053		A	Garden City	Nassau Community College 5k	0.0	0	G	Westerfield		
	<u></u>			.			_	_	e		
5 km	OH 04077		A	Sylvania	Toledo Metro Parks 5km	-0.2	5 1	D	Standish		
4 mi 5 km	OH 04078 OH 04082		A	Canton Granville	Kempthorn VW Great Pumpkin Jennifer Travis Memorial 5k	0.0	1 0	J J	Wilhelm Glaze		
5 km	OH 04082 OH 04083		A A	Columbus	The Don Scott Trot 5k Runway	0.0 0.0	1	P	Riegel		
Cal	OH 04084		A	Dublin	Metro North 1026.27 ft.	0.0	100		Riegel	ОН	91008 PR
Cal	OH 04085		A	Columbus	Kirkham Road 1000 ft.	0.0	100		Riegel	OH	92088 PR
42.195 km			A	Cincinnati	Flying Pig Marathon 2005	0.0	3	D	Connolly	OH	
21.0975 km	OH 04087	PR	А	Cincinnati	Flying Pig Half Marathon 2005	-0.6	5	D	Connolly	-	
5 km	OH 04088	PR	А	Cincinnati	Flying Pig 5k	0.9	3	D	Connolly		
10 km	OH 04089	PR	A	Cincinnati	Flying Pig 10k	-0.1	3	D	Connolly		
5 km	OK 04028	BB	A	Oklahoma City	Bricktown Blaze	0.0	6	D	Garrett		
5 km	OK 04029		А	Woodward	Run for Shelter	0.4	2	D	Garrett		
5 km	OK 04030	BB	А	Oklahoma City	Forget Me Not Run	0.0	0	D	Garrett		
8 km	OK 04031	BB	А	Oklahoma City	Toys for Tots	0.0	0	D	Garrett		
3 km	OK 04032		А	Oklahoma City	Toys for Tots	0.0	0	D	Garrett		
5 km			А	Talihina	Choctaw Nation Reach 2010	0.0	0	G	Lafarlette		
5 km	OK 04034		A	Guthrie	Guthrie Land Run 5km	0.0	2	D	Garrett		
5 km	OK 04035	BB	A	Oklahoma City	Downtown In December Run	0.2	2	D	Garrett		
42.195 km	PA 04012	WB	A	Philadelphia	Philadelphia Marathon 2004	0.0	0	В	Belleville	PA	03023 WB
5 km	SC 04031	BS	А	Honea Path	Black Cow Stampede	0.3	6	В	Marable	SC	04031 BS
21.0975 km	SC 04028		А	Myrtle Beach	Halloween Half Marathon	0.0	1	Н	Schmoock		
5 km	SC 04029		Α	Pawley's Island	Pawley's Island 5k	0.0	2	D	White		
5 km	SC 04030		A	Daniel Island	Charleston Race for the Cure 5k	0.0	5	M	Desrosiers		
5 km	SC 04032		A	Greenwood	Greenwood 5k Challenge	0.0	1	W	Terry		
5 km	SC 04033		A	Anderson	Electric City Gobbler 5k	-0.6	3	W	Terry		
5 km	SC 04034		A	Pacolet	Hotel Hill Climb	1.8	52 1	B	Smith Smith		
5 km 10 km	SC 04035 SC 04036		A A	Spartanburg Aiken	Doggie dash - Duncan Park Whiskey Road Race 10k	-0.4	1 0	B C	Smith McKeel	SC	02017 BS
10 km 10 mi	SC 04036 SC 04037		A	Aiken	Whiskey Road Race 10k Aiken Triple Crown	0.0 0.0	0	C C	McKeel	SC	02017 BS 02005 BS
5 km	SC 04037 SC 04038		A	Charleston	Reindeer Run	0.0	0	м	Desrosiers	SC	02003 BS 02032 BS
						-	-				
5 km	TN 04028		A	Surgoinsville	Phillips Bend 5k	0.0	0	D	Rogers	TN	02015 RH
5 km	TN 04029	DJR	A	Chattanooga	Race for the Cure 5k UTC 2004	0.0	0	В	Minehan	ΤN	03010 DJR

5 km		04030	D ID	А	Nashville	Athens AZA 5k	0.0	0	J	Zeigler		
21.0975 km		04030	-	Â	McMinnville	McMinnville Half Marathon	0.0	0	T	de Paulis		
5 km		04032		A	Jonesborough	Jingle Bell 5k	-0.6	11	M	Studholme		
10 km		04033		A	Townsend	Townsend 10k	-0.2	0	A	Morgan		
		0 1000	Don	7.			0.2	Ũ		morgan		
5 km	ТΧ	04018	WG	А	Mission	Trick or Trot	0.0	0	В	Grass		
5 mi		04031		A	Austin	Austin Turkey Trot	0.0	1	J	Ferguson	ΤХ	04027 JF
42.195 km		04087		D	San Antonio	Marathon of the Americas	-0.1	0	D	Blick	ТХ	02093 ETM
5 km		04088		Ā	Richardson	RHS Excellence in Education 5k	-1.2	1	c	Clines		02000 21
21.0975 km		04089		A	San Antonio	San Antonio Half Marathon II	-0.3	1	D	Blick	тх	04080 ETM
42.195 km		04090		A	San Antonio	Marathon of the Americas	-0.1	0	D	Blick	ТХ	04087 ETM
5 km		04091		A	Grand Prairie	Lone Star Park 5k	0.2	1	c	Clines		0.000 2
5 km		04092		A	Fort Worth	You Go Girl 5k	0.0	2		/Polansky	ΤХ	03100 ETM
5 km		04093		A	Cleburne	Southern Stampede 5k	-0.4	4	С	Clines		
21.0975 km		04094		A	Dallas	CCCD The Half 2004	0.0	1	ĸ	Ashby		
5 km		04095		A	Houston	Uptown Turkey Trot 5k	0.0	1	R	Barnhill		
10 km		04096		A	Houston	Uptown Turkey Trot 10k	0.1	1	R	Barnhill		
5 km		04097		A	Galveston	Run Like the Dickens 5k	0.6	1	R	Barnhill	ΤХ	95097 ETM
10 km		04098		A	Houston	Conoco Phillips Rodeo Run 10k	-0.4	13	E	McBrayer	ТХ	03097 ETM
5 km		04099		A	Houston	Conoco Phillips Rodeo Run 5k	-0.9	12	E	McBrayer	ТХ	02098 ETM
5 km		04100		A	Houston	Houston Press II 5k	0.0	5	Е	McBrayer	TX	04070 ETM
21.0975 km		04101		A	Fort Worth	Cowtown Half Marathon	0.0	2	M	Polansky		
21.0975 km		04102		A	Dallas	Dallas White Rock H'MAR	0.0	1	A	Beach		
5 km		04103		A	The Woodlands	Entergy Corp. & Parents	0.2	2	R	Barnhill		
5 mi		04104		A	Houston	Park to Park 5 Mile Run	0.3	64	E	McBrayer	тх	03107 ETM
0 111	17	01101					0.0	01	-	mobilayor	173	CONCERNING
5 km	VA	04005	JS	А	Vienna	Navy Federal 5k Run/Walk	0.0	0	J	Sissala		
5 km		04032		A	Fairfax	Truro Preschool 5k	0.0	0	R	Thurston		
8 km		04033		A	Arlington	Marine Corps Marathon 8k	-2.6	8	R	Thurston		
10 km		04034		A	Ashland	Ashland Harvest 10k	0.0	2	M	George		
5 km		04035		А	Locust Grove	Lake of the Woods 5km	0.0	0	V	Culp		
10 km		04036		А	Reston	Fall Into Winter 10k	-0.6	3	R	Thurston		
Cal		04037		А	Virginia Beach	Atlantic Ave 1000 ft.	0.0	100	М	Studholme		
					5							
42.195 km	VT	04002	RF	А	Stowe	Stowe Marathon	0.1	0	R	Fitzpatrick		
Cal	WA	04008	BL	А	Chelan	Chelan Airport 335.32 meter	0.0	100	А	Dausman	WA	02013 BL
42.195 km	WA	04009	BL	А	Chelan	Shore to Shore Marathon	0.9	26	А	Dausman		
21.0975 km	WA	04010	BL	Α	Chelan	Shore to Shore Half Marathon	0.6	25	А	Dausman		
10 km	WA	04011	BL	А	Chelan	Shore to Shore 10km	3.1	88	А	Dausman		
10 km	WA	04012	BL	А	Kennewick	Fall Frolic and Footrace 10km	0.0	0	А	Dausman		
5 km	WA	04013	BL	А	Kennewick	Fall Frolic and Footrace 5km	0.0	0	А	Dausman		
10 km	WA	04014	BL	Α	Mt. Vernon	YMCA Fowl Run 10km	0.0	1	Т	Cotner		
5 km	WA	04015	BL	А	Lynnwood	Lynnwood Hi5 Festrun 5km	0.0	0	Т	Cotner		
10 km	WA	04016	BL	Α	Lynnwood	Lynnwood Hi5 Festrun 10km	0.0	0	Т	Cotner		
5 km	WA	04017	BL	Α	Bellevue	Seafair (Bellevue) 5km	-0.4	1	Т	Cotner	WA	03021 BL
5 km	WA	04018	BL	Α	Everett	Yankee Doodle Dash 5km	0.0	1	Т	Cotner	WA	00003 MR
10 km	WA	04019	BL	А	Everett	Yankee Doodle Dash 10km	0.0	0	Т	Cotner	WA	00004 MR
21.0975 km	WI	04114	JW	Α	Hilbert	Cheesehead Half Marathon	0.0	1	D	Moore		
42.195 km	WI	04118	JW	А	Milwaukee	Lakefront Marathon	1.4	95	D	Weyer	WI	01098 JW
5 km	WI	04120	JW	А	Fitchburg	Thanksgiving Day Berbee Derby	0.0	4	Ν	Marquez		
10 km	WI	04121	JW	Α	Fitchburg	Thanksgiving Day Berbee Derby	0.0	2	Ν	Marquez		
1 mi	WI	04126	JW	Α	Madison	Capitol Mile	3.6	14	Т	Aten		
Renewed												
100 km	CA	95008	CW	A04	San Francisco	Ruth Anderson 100km	0.0	1	С	Wisser		
50 km	CA	95011	CW	A04	San Francisco	Ruth Anderson 50km	0.0	1	С	Wisser		
50 mi	CA	95012	CW	A04	San Francisco	Ruth Anderson 50 Mile	0.0	2	С	Wisser		
10 km		94004		A04	Iowa City	lowa City Road Races 10k	0.0	0	J	Schimek		
5 km	NJ	93024	GAN	A04	Dover	Dover Renaissance 5 km	0.0	1	Ρ	Lee		
15 km	NJ	93030	DB	A04	Bernards Twp.	Great Swamp Devil 15k	0.0	0	D	Brannen		
5 km	SC	94012	BS	A04	Aiken	Wachovia Aiken Sun Run	0.0	1	Е	Prytherch		
Various	TX	93011	ETM	A04	Houston	Bear Creek RW Loop	0.0	3	Е	McBrayer		

Mike Wickiser - Course Registrar 2939 Vincent Road Silver Lake, OH 44224-2916 Phone 330-929-1605 FAX 509-351-5383 Mikewickiser@neo.rr.com

USATF/RRTC CERTIFIED COURSE LIST New Entries, January - February 2005

DISTANCE	COL	JRSE ID)	STA	LOCATION	COURSE NAME/RACE	m/km DROP		ME	ASURER	REP	LACES
8 km	<u></u>	04027		А	Birmingham	Brenda Ladun's Conquer Cancer	0.0	1	R	Melanson		
1 mi		04027		A	Mobile	•	-0.6	13	J	Bowie		
5 km		05001				Mobile Moonlight Mile	-0.8	12	R	Melanson		
		05002		A	Birmingham Birmingham	BE5K Benefiting Kid One		0	R		A I	02024 10
42.195 km				A	0	Mercedes Marathon	0.0			Melanson	AL	03034 JD
21.098 km	AL	05004	JD	A	Birmingham	Mercedes Half Marathon	0.0	1	R	Melanson	AL	03035 JD
4 mi	AR	05001	DLP	Α	Batesville	HealthSouth 4M	0.5	3	G	Ballard		
21.098 km		04017		A	San Francisco	Kaiser Permanente 1/2 Marathon	2.8	14	Т	Knight	CA	03017 TK
10 km		05002		A	Pacific Grove	Together With Love 10k	0.0	2	D	Thurston	CA	97009 KY
5 km		05003		A	Pacific Grove	Together With Love 5k	0.0	3	D	Thurston		
100 km		05004		A	Elverta	Jed Smith Ultra Classic 100km	0.0	1	D	Scott	EVD	
42.195 km		05005		A	Huntington Beach	2005 Pacific Shoreline Marathon	0.0	0	R	Scardera		IRES 2007
10 km		05006	-	A	LaHambra	LaHambra 10km	0.0	0	R	Scardera	CA	02038 RS
5 km	ĊA	05007	RS	A	LaHambra	LaHambra 5km	0.0	0	R	Scardera	CA	02037 RS
3 mi	СТ	03001	PH	А	Watertown	Watertown Harvest Ramble 3Mile	0.0	0	W	Graustein		
Cal		04001		Α	Kennesaw	Airport Road 1000 ft.	0.0	100	J	DeHaye		
50 km		04002		A	Rockmart	Silver Comet Ultra Run	0.0	0	J	DeHaye		
10 km		05001		A	Bainbridge	Kiwanis River Run	0.0	1	В	McGuire	_	
42.195 km		05002		Α	Tybee Island	Tybee Marathon	0.0	0	R	Boyette	GA	04005 WC
21.098 km		05003		Α	Tybee Island	Tybee Half-Marathon	0.0	0	R	Boyette	GA	01012 WC
5 km		05004		А	Tybee Island	Tybee 5k	0.0	1	R	Boyette	GA	95001 WC
5 km	GA	05005	WC	Α	Millen	Millen 5k	0.2	1	J	Hite		
5 km	GA	05006	WC	Α	Powder Springs	Run for the Son	0.0	3	J	Grosko		
10 km	GA	05007	WC	А	Powder Springs	Run for the Son	0.0	1	J	Grosko		
5 mi	MA	04025	RN	А	Douglas	Douglas Family Fun Run 5 Miler	0.5	4	J	Kuo		
Cal	MD	04015	JS	А	Piney Point	Piney Pt. Road 300 meter	0.0	100	L	Recto		
42.195 km	MD	04016	JS	Α	Piney Point	Lower Potomac River Marathon	0.0	0	L	Recto		
Cal	MD	04017	JS	А	Berlin	Assateague Isle. 1000 ft.	0.0	100	Μ	Shaw		
42.195 km	MD	04018	JS	A	Ocean City	Ocean City Maryland Marathon	0.0	0	Μ	Shaw		
5 km	MS	04001	PH	А	Hernando	Fall on the Square Hernando	0.0	0	R	McCrarey		
5 km	NC	05001	PH	А	Cary	Cary Road Race	0.0	0	Ν	Wood	NC	99006&02001
10 km	NC	05001	PH	Α	Cary	Cary Road Race	0.0	0	Ν	Wood		
5 km	NC	05002	PH	А	Cary	Cary Road Race	0.0	0	Ν	Wood		
10 km	NC	05003	PH	А	Cary	Cary Road Race	0.0	0	Ν	Wood		
5 km	NC	05004	PH	А	Sanford	Cary Road Race	0.0	0	Ν	Wood		
5 km	NJ	05001	LMB	А	Middletown	Spring Into Summer 5k	-0.6	4	L	Baldasari		
5 km	NJ	05002	LMB	Α	Livingston	Run for Rachel	0.0	2	J	Parks		
20 km	NJ	05003	LMB	Α	Newark	Newark Distance Classic 20k	0.0	0	J	Parks		
5 km	NJ	05004	LMB	А	Newark	Newark Distance Classic 5k	0.0	1	J	Parks		
21.098 km	NV			А	Las Vegas	2005 Las Vegas Half Marathon	5.8	92	в	Callanan	NV	98009 BC
10 mi	NV			А	Mesquite	2005 Mesquite 10 Miler Course	4.8	33	В	Callanan	NV	99014 BC
42.195 km	NV	05002	BC	А	Las Vegas	2005 Las Vegas Marathon	4.9	95	В	Callanan	NV	98008 BC
5 km	NY	04053	AM	А	Cazenovia	Chilly Chili 5k	-3.0	8	D	Oja		
5 km		04092		А	Cincinnati	Right to Life 5k	-0.4	3	D	Connolly		
5 km		05001		А	Miami Township	Run for the Poor 5k	0.0	1	D	Connolly		
10 km	ОН	05002	PR	А	Genoa Twp.	Run Happy 10k	0.0	0	Ρ	Riegel		
5 km	PA	05001	WB	A	Pittsburgh	Race for the Cure - Run Course	1.5	7	R	Yurick	PA	03007 WB
5 km		05001		Α	Greenville	Run Downtown Road Race	1.2	10	D	White		
5 km		05002		Α	Myrtle Beach	Myrtle Beach 5k	0.0	21	D		SC	04007 BS
8 km		05003		А	Simpsonville	Sunrise Run 8k	0.5	1	D	White		
5 km	SC	05004	BS	Α	Columbia	Lake Carolina Relay for Life 5k	0.0	1	S	Blake		
42.195 km	SC	05005	BS	А	Myrtle Beach	Myrtle Beach Marathon	0.0	0	D	White	SC	03004 BS

DISTANCE	col	URSE ID	`	STA	LOCATION	COURSE NAME/RACE	m/km DROP		ME	ASURER	RED	LACES
DISTANCE	000		,	514	LOCATION		DIG			AGOINEIN		LAGED
1 mi	ΤN	04034	DJR	А	Jonesborough	Dasher dash Mile	0.0	0	М	Studholme		
5 km	ΤN	04035	DJR	Α	Memphis	St. Louis School Pace Race 5k	0.0	5	R	McCrarey		
5 km	ΤN	04036	DJR	Α	Hendersonville	Sumner County YMCA Frostbite	0.0	0	J	Ziegler		
10 km	ΤN	04037	DJR	Α	Collierville	Run with the Dragons 10k	0.6	2	R	Hunter		
21.098 km	ΤN	04038	DJR	Α	Memphis	St. Jude Memphis Half Marathon	0.4	1	R	McCrarey	ΤN	02030 RH
42.195 km	ΤN	04039	DJR	Α	Memphis	St. Jude Memphis Marathon	0.2	1	R	McCrarey	ΤN	02035 RH
10 km	ΤN	04040	DJR	Α	Kingsport	War Party 10k	0.0	1	Μ	Studholme		
5 km	ΤN	04041	DJR	Α	Hendersonville	Running of the Fools 5k	0.4	3	J	Ziegler		
5 km	ΤN	04042	DJR	Α	Murfreesboro	Pace Race 5k	0.0	0	J	Ziegler		
5 km	ΤN	04043	DJR	Α	Surgoinsville	New Years Day Wake-up Run	0.6	5	D	Rogers		
21.098 km	ΤN	05001	DJR	Α	Knoxville	Knoxville Half Marathon	0.4	4	Α	Morgan		
42.195 km	ΤN	05002	DJR	А	Knoxville	Knoxville Marathon	0.2	2	Α	Morgan		
5 km	тх	05003	ETM	А	Houston	Sprint for Life 2005	-0.1	2	Е	McBrayer	ΤХ	04031 ETM
5 km	ΤХ	05004	ETM	Α	Houston	Running With the Bulls IV	0.0	0	R	Barnhill	ΤХ	04023 ETM
10 km	ΤХ	05005	ETM	А	Bedford	Bookin' for Books 10k	0.0	1	С	Clines		
2 km	ΤХ	05006	ETM	А	Houston	BC Relay Loop	0.0	0	Е	McBrayer		
21.098 km	ΤХ	05004	JF	А	Austin	Freescale Half Marathon	5.5	85	J	Ferguson	ΤХ	03022 JF
42.195 km	ΤХ	05004	JF	А	Austin	Freescale Marathon	3.2	47	J	Ferguson	ΤХ	03022 JF
5 km	ΤХ	05005	JF	А	Austin	Cops and Joggers 5k	-0.8	6	J	Ferguson		
Cal	ΤХ	04010	WG	А	South Padre Island	Highway 100 SPI - 1000 ft.	0.0	100	W			
5 km	ΤХ	04015	WG	А	Mission	Correcaminos 5k	0.0	0	В	Grass		
2 mi	ΤХ	04017	WG	Α	Mission	Correcaminos 20 Mile	0.0	0	В	Grass		
10 km	ΤХ	05001	WG	Α	Edinburg	All American 10k	0.0	10	В	Grass	ΤХ	04003 WG
10 km	ТΧ	05002	WG	А	Edinburg	All American 10k	0.0	10	В	Grass		
Cal	WA	05001	BL	А	Wenatchee	Hawley St. Bike Path 1000 ft.	0.0	100	т	Finegold		
10 km	WA	05003	BL	Α	Wenatchee	Wenatchee 10k	1.2	16	Т	Finegold		
42.195 km	WA	05003	BL	А	Wenatchee	Wenatchee Marathon	0.3	4	Т	Finegold		
Cal	WI	04129	JW	А	Oregon	Market St. North 300 meters	0.0	100	т	Aten		
10 km	WI	04130	JW	А	Belleville	UFO Run	0.0	0	т	Aten		
Renewed												
10 km	NJ	88007	DB	A05	Newark	Cherry Blossom 10k	-0.9	3	D	Brannen		
5 km	NY	93043	AM	A04	Buffalo	B-2000 5k Run	0.0	2	J	Grandits		
5 km	NY	94002	DB	A05	Queens	Wilkins Park 5km	0.0	2	D	Brannen		
5 km	NY	94008	AM	A05	Lancaster	Chris Griswold Memorial Run	-0.1	2	J	Grandits		
5 km	NY	94019	AM	A04	Endicott	W. Endicott Park/TCRC Women's	0.0	7	G	Groom		
21.098 km	ТΧ	93004	ETM	A04	Fort Worth	Better Half Marathon	0.0	0	Μ	Polansky		

A complete listing of USATF Certified courses is available at - www.RRTC.Net

PUBLICATIONS AVAILABLE FROM RRTC

Printed Course Lists - A list of certified courses for any state is \$2.00. (Free to RRTC certifiers). You will receive a list that is current as of the last published Measurement News. Courses can be sorted in a special way; otherwise it will be sorted by distance as it appears in MN. Other specially-sorted lists can be done - for instance, you might want to have all the 5k's in IL, IN, and MO. If you are online, lists can be sent that way. Contact Mike Wickiser at MikeWickiser@neo.rr.com

Web Page Access to Course Lists: The complete list can be downloaded from the RRTC website at www.rrtc.net/download/ Also, try the new USATF Search Engine linked from www.rrtc.net or directly at www.usatf.org/events/courses/search/

Individual Certificates - These may be obtained by sending the course number and \$2.00 per course desired. **SEND THE COM-PLETE ID, INCLUDING PREFIX AND SUFFIX LETTERS**, i.e: CA92057 RS. Send course name, length and location as well. If you are thinking of hiring a measurer, this is an excellent way to see the sort of work you can expect. In addition, you may wish to check out a course you intend to run. Bring the map to the course and see if the race director got it right!

Above material may be obtained from: Mike Wickiser - 2939 Vincent Rd. - Silver Lake, OH 44224-2906

Measurement Calculation Computer Program by Bob Baumel, version 1.2 for Macintosh or IBM PC. This software can be downloaded for free from the RRTC website at

www.rrtc.net/download/ or Bob will distribute it by email attachment (send requests to webmaster@rrtc.net) or on floppy disks (send blank, formatted diskette and stamped return mailer to Bob at: 129 Warwick Road, Ponca City OK 74601-7424). Be sure to specify Mac or PC version.

Electronic Certificate Templates (available to Certifiers only), in Adobe Acrobat forma. Requires Acrobat or Acrobat Reader 4.0 or greater (Current Acrobat Reader may be downloaded for free from **www.adobe.com**). The template allows you to fill in certificates on the computer and print them. Available in both FS and non-FS version. Distributed by Bob Baumel by email or diskette [same addresses as for Measurement software]. Bob can customize the template with certifier's personal info at the bottom to avoid re-typing it every time (Be sure to specify exact ID text desired when requesting a template).

Online course measurement book, edited by Bob Baumel. It's a revision of the one you can buy from USATF, but the basic procedures have not changed. Available at: **www.rrtc.net**

Course Measurement Procedures - the Bible of course measurement. Complete instructions for measuring courses for USATF certification. The same procedures are now used for IAAF and AIMS courses. \$9.00 postpaid. Available from: USATF - Book Order Dept. - PO Box 120 Indianapolis, IN 46206

Course Measurement Video - a concise 17 minute introduction to course measurement, intended as a supplement to Course Measurement Procedures. See how it's done! Version 2 sells for \$10 but there are still a few copies of the original version available for \$7.50. Send to: Tom McBrayer - 4021 Montrose - Houston, TX 77006-4956.

Historical/Technical Material Available on CD Measurement News Archive - Every issue of Measurement News from #1 (1982) to #115 (2002). Full of material describing measurement techniques, technical articles, and history, written by numerous people worldwide. Set of 2 CD's in pdf (Adobe Acrobat 5.0) format. Cost \$10.00, postpaid.

Historical Archive - A collection of technical articles, measurement reports, seminars spanning the period 1963 to present. Includes detailed full reports of several group rides of Olympic Marathon courses. All on one CD in pdf format. Cost \$5.00, postpaid.

The above two items are available from: Pete Riegel, 3354 Kirkham Road, Columbus, OH 43221 email: riegelpete@aol.com

OTHER PUBLICATIONS AND EQUIPMENT

Road Race Management is a monthly newsletter providing race organizing ideas and news for race directors. \$97 per year from: Road Race Management - 4904 Glen Cove Pkwy - Bethesda, MD 20816 Phone: 301-320-6865 Fax: 301-320-9164

Jones/Oerth Counters - Paul Oerth - 2455 Union St - Apt 412 -San Francisco, CA94123. Phone: 415-346-4165 Fax 415 346 0621. Email: Poerth@aol.com. US Price is \$70 for the 5 digit model, \$80 for the 6 digit model, postpaid. Foreign price is \$75/\$85 plus postage. Foreign orders shipped by airmail. Visa, MasterCard, American Express cards accepted. Advance payment is required. **RunScore** - The flagship of IBM-style finish line programs. For information contact: Alan Jones - 3717 Wildwood Dr - Endwell, NY 13760. Online at: **www.runscore.com**

Apple Raceberry JaM - Race management software for Macintosh and Windows. Online at **www.raceberryjam.com** or call Jack Moran at (952) 920-0558.

TOPOGRAPHIC MAPS

USAtopographic maps are available from: U. S. Geological Survey 303-202-4200 USGS Map Sales PO Box 25286, Bldg 810

Denver Federal Center Denver, CO 80225 Delivery will be made in approx. 4 weeks. Ask for latest price. Maps can be located and ordered online at: **www.usgs.gov** Maps can be obtained in just a few days from: Map Express – PO Box 280445 – Lakewood, CO 80228-0445 1-800-MAP-00EX (1-800-627-0039) Maps can be located and ordered online at: **www.mapexp.com**

Topo Maps on CD-ROM - 3-D TopoQuads includes authentic USGS 7.5-minute quadrangle maps, assembled into one seamless database

See an interactive online demo at **www.delorme.com** Also - check out Street Atlas USAfrom the above – it's a seamless street map of the whole USAat a decent price.

USGS TOPOGRAPHIC MAPS ONLINE - FREE

Maps.Com has a section where you can click on to all USGS maps, free. This can be very handy for obtaining accurate elevation information.

Check out: www.maps.com

ROAD RUNNING TECHNICAL COUNCIL

Chairman: Mike Wickiser – 2939 Vincent Rd – Silver Lake, OH 44224 Phone/fax: 330-929-1605 email: MikeWickiser@neo.rr.com

REGIONAL CERTIFIERS - CONTACT THESE PEOPLE FOR CERTIFICATION INFORMATION

		Telephone	Er
AK -	Frederic Wilson - 2420 Glenwood - Anchorage, AK 99508	907-279-2773	up
AL -	John DeHaye - 824 Annlau Ave - Huntsville, AL 35802	256 881-9326	jjc
AR -	Don Potter - 440 Lower Ridge Rd - Conway, AR 72032	501-514-4370	do
AZ -	Gene Newman – 920 N. Night Heron Dr – Green Valley, AZ 85614	520-648-3353	ne
CA -	Ron Scardera - 5660 Valley Oak Dr - Los Angeles, CA 90068	323-467-7750	rs
CO -	Dave Poppers - 5938 S Franklin St - Centennial, CO 80121	303-795-9743	dp
CT -	Paul Hronjak - 4413 Pinehurst Drive, Wilson, NC 27896	252-237-8218	hr
DC -	Robert Thurston - 13 Kennedy St NE - Washington, DC 20011	202-726-1518	Tł
DE -	Larry Baldasari – 3448 Nottingham Way – Hamilton Square, NJ 08690	609-890-8343	la
FL -	Doug Loeffler - 1399 W. Royal Palm Rd - Boca Raton, FL 33486	561-391-2880	do
GA -	Woody Cornwell - 1724 Brighton Way - Dalton, GA. 30721	706-226-5207	
HI -	Peter Riegel - 3354 Kirkham Rd - Columbus, OH 43221-1368	614-451-5617	ev Ri
IA -	Michael Franke - 3824 51st St - Des Moines, IA 50310	515-276-3140	M
ID -	Len Andersen - 5243 E.Understory Ave Boise, ID 83716	208-340-0472	in
IL -	Jay Wight - 4556 Opal Drive - Hoffman Estates, IL 60195-1185	847-359-4598	Ja
IN -	Mike Wickiser – 2939 Vincent Rd – Silver Lake, OH 44224	330-929-1605	Μ
KS -	Bill Glauz - 2704 W. 137th St Leawood, KS 66224-4529	913-402-1501	W
KY -	Peter Riegel - 3354 Kirkham Rd - Columbus, OH 43221-1368	614-451-5617	Ri
LA -	John Ferguson - 3026 Sesbania - Austin, TX 78748-1912	512-282-4175	fe
MA -	Ray Nelson - 49 Weber Ave Warwick, RI 02886	401-737-2416	ric
MD -	John Sissala - 120 Evans St - Rockville, MD 20850	301-340-8107	jsi
ME -	Ron Fitzpatrick - 33 Rand Rd - Center Barnstead, NH 03225	603-776-1999	rjf
MI -	Scott Hubbard - 200 Trealout Dr #11 - Fenton, MI 48430	810-629-8963	Ŕ
MN -		612-375-0805	ric
MO -	······································	913-402-1501	w
MS -	Dave Rogers - 275 Grandview Ct - Kingsport, TN 37664	423-323-0501	da
MT -	Michael Franke - 3824 51st St - Des Moines, IA 50310	515-276-3140	M
NC -			
	· · · ·	252-237-8218	hr
ND -	Peter Riegel - 3354 Kirkham Rd - Columbus, OH 43221-1368	614-451-5617	Ri
NE -	Karl Ungurean - 203 E. Denison - Davenport, IA 52803	563-324-2250	U
NH -	Ron Fitzpatrick - 33 Rand Rd - Center Barnstead, NH 03225	603-776-1999	rjf
NJ -	Larry Baldasari – 3448 Nottingham Way – Hamilton Square, NJ 08690	609-890-8343	la
NM -	1 ,	505-524-7824	D
NV -	Bill Callanan - 5209 Copper River Ave - Las Vegas, NV 89130	702-656-3741	bi
NY -	Amy Morss - 4 Laurel St - Peterborough, NH 03458	603-924-8604	ar
OH -	Peter Riegel - 3354 Kirkham Rd - Columbus, OH 43221-1368	614-451-5617	Ri
OK -	Bob Baumel - 129 Warwick Road - Ponca City, OK 74601-7424	580-765-0050	bo
OR -	Lee Barrett - 3027 NE 20th Ave - Portland, OR 97212	503-284-2809	CL
PA-	Bill Belleville - 2902 Morris Road - Ardmore, PA 19003	610-649-4278	W
RI -	Ray Nelson - 49 Weber Ave Warwick, RI 02886	401-737-2416	ric
SC -		843 881 5566	cl
SD -	Peter Riegel - 3354 Kirkham Rd - Columbus, OH 43221-1368	614-451-5617	Ri
TN -	Dave Rogers - 275 Grandview Ct - Kingsport, TN 37664	423-323-0501	da
TX -	E. T. McBrayer - 4021 Montrose - Houston, TX 77006-4956	713-523-5679	m
UT -	Dave Poppers - 5938 S Franklin St - Centennial, CO 80121	303-795-9743	
VA-			dp T
	Robert Thurston - 13 Kennedy St NE - Washington, DC 20011	202-726-1518	Tł
VT -	Ron Fitzpatrick - 33 Rand Rd - Center Barnstead, NH 03225	603-776-1999	rjf
WA -	Bob Langenbach – 4261 South 184th St – SeaTac, WA 98188	206-433-8868	bo
WI -	Jay Wight - 4556 Opal Drive - Hoffman Estates, IL 60195-1185	847-359-4598	Ja
WV -	5	202-726-1518	Tł
WY -	Tom Knight - 307 Dartmouth Ave - San Carlos, CA 94070	650-594-9406	То
PUR	Pedro Zapata - PO Box 2780 - Carolina, Puerto Rico 00984-2780	787-767-9191	pz
FORE	IGN - Peter Riegel - 3354 Kirkham Rd - Columbus, OH 43221-1368	614-451-5617	R
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Email address phere@alaska.net jdehaye@yahoo.com donp@tcworks.net newmangc@cox.net scar@pacbell.net dpoppers@comcast.net nronjak@simflex.com Thurret@aol.com arsurf@aol.com doug@rail-tech.net ewcornwell@cs.com Riegelpete@aol.com Mfranke@worldnet.att.net nformation@spondoro.com aywight@earthlink.net MikeWickiser@neo.rr.com vglauz@kcnet.com Riegelpete@aol.com ergusonj@hayscisd.net ide6887@ride.ri.net sissala@comcast.net jfitz@worldpath.net Runningshorts@aol.com ick_recker@hotmail.com wglauz@kcnet.com dave carla@chartert Vfranke@worldnet.att.net nronjak@simflex.com Riegelpete@aol.com JngureanK@aol.com jfitz@worldpath.net arsurf@aol.com Drshepan@aol.com oill callanan@cox.net amymorss@yahoo.com Riegelpete@aol.com oobbau@earthlink.net udapdx@comcast.net Nibellevil@aol.com ide6887@ride.ri.net clocker@charleston.net Riegelpete@aol.com dave_carla@chartertn.net mametm@sbcglobal.net dpoppers@comcast.net hurret@aol.com jfitz@worldpath.net ooblang@wolfenet.com aywight@earthlink.net hurret@aol.com dk@stanford.edu zapata@puentetmoscoso.com Riegelpete@aol.com

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