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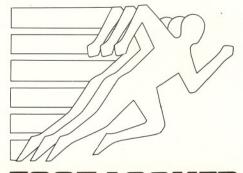
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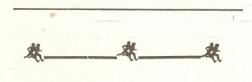
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Cover photo of Diane Williams by Tony Duffy ..



EQUALITY FOREVER!

In the December 28 edition of "The NCAA News", there is quite a lengthy article by "USA Today" writer Jacqueline Salmon headlined "Women Sportswriters Gaining in Struggle for Equality and Respect".

It's a well written and highly documented article about how the female reporters have finally achieved what has been their main objective all these years - access to the locker rooms following competition. Now, according to Ms. Salmon, "all-female television camera crews" can "walk right on in".

I personally would like to take this opportunity to thank reporter Salmon and her colleagues for their advance work on this problem. With the 1984 track season now upon us, I am looking forward, thanks to Ms. Salmon and co-workers, to some rather interesting locker-room interviews. I have put out a call for an "all-male television crew" and expect I will have enough volunteers by the time the big meets roll around.

If you know someone who might like to be on the waiting list for this project, let us know.

NON PERSON SETS WR

17-year old Zola Budd broke Mary Decker's world record for the 5000 meters by nearly seven seconds when she recently ran 15:01.83 in a meet held in Stellenbosch, South Africa.

The 'Powers-That-Be' have declared this to be a non-record since Zola, who runs barefoot, is a citizen of South Africa, thereby being contaminated as a bad girl and not eligible for any records. Zola probably hates her mother and father for being South African citizens!

So, Wise Power Guys, what do we do with Zola's performance? Pretend it didn't happen? Put a couple of astericks behind it and explain what a naughty girl she is for being born in such a wicked country? Just what DO we do with a performance like that?

I can tell you what I'm going to do about it. It's the best in the world and WTFW will always list it as such. Atta baby, Zola! Sock it to 'em!

With this issue, as you can obviously see, we are cutting down on the 'picas' - the size of our print will be smaller. By doing this we can get the same amount of news and information to you and at the same time counteract the cost of postage as the Post Office keeps socking it to us more and more.

STEROIDS AGAIN

Our attempt to stir up a little controversy over the steroid/drug situation has been successful. Most of our mail concerning the use of drugs has been on the negative side. In fact, all of our mail on this subject has been anti-drug. After all, it could be dangerous to put a positive view of steroid use on paper and sign your name to it.

The following letter from Jeff Johnson expresses the majority feeling on the subject:

"In your 'Reel Off' editorial on steroids in the December WTFW, you are confusing two quite separate issues of the athlete's health and the morality of aiding performance through drug use.

"You begin by suggesting that all of the literature on the potential long-term hazards of artificially supplementing your body's natural hormone levels is simply 'scare stuff' that is 'coming from somewhere'. At least you gracefully ask: 'Whome do you believe³a' Hold that thought for a moment.

"You then leap to the moral question - with an absence of transition that may lead the naive reader to suppose you are still addressing the health question - and you lump steroids into the same category as 'lifting weights or taking wheat germ'. Morally speaking, one might indeed argue that steroids, as an artificial aid to performance, are on a moral par with weights, vitamins, altitude training, synthetic tracks, new shoes, etc. But the health question is another matter altogether.

"Where do you draw the line?, you ask, moralistically. I don't know, I answer moralistically. But MEDICALLY, it seems only common sense that you draw the line on those 'artificial aids' that MAY damage (either immediately or eventually) an athlete's health. And when there is ANY DOUBT AT ALL, the rules makers, responsible coaches and athletes (and responsible journalists!) should not condone such 'artificial aids' in the sport. There is certainly substantial doubt surrounding the long-term effects of steroid ingestion.

"Whom do you believe?, you ask. It beats me. I'm no expert. But as long as there is doubt, the sport should be determinedly opposed to steroid use.

"Your editorial is aptly titled. "Reel" is certainly "Off" on this one.

Jeff Johnson Nottingham, NH

Jefferson is correct of course when he says this subject consists of two parts- moral and medical. And we still say, "Where do you draw the line?" We were just kidding, of course, about weights and such being artificial aids, but aren't they? Where do YOU put them in your classification file?

Because of what developed in Caracas at the Pan-Am Games, much has been written in recent months on the subject. We reprint some

Continued on page 6



WENDY SLY of Great Britain wins photo finish at the IAAF World Championship 10000m Road Race for women over BETTY SPRINGS of the USA. (Janeart, Ltd, photo)

WORLD 10k ROAD RACE SLY EDGES SPRINGS

San Diego, California, Dec 4: Great Britain's Wendy Sly edged out the USA's Betty Springs in a tightly contested photofinish during the first Avon sponsored, IAAF sanctioned World Championship 10k Road Race for Women held here today on Fiesta Island.

Heading one of the fastest groups of women ever assembled for the 10k distance - one third of the field ran under 34 minutes - Sly and Springs were both clocked at 32:23 and the victor was determined by a panel of finish judges.

The world record holder for 10k, Raisa Sadrevdinova from the Soviet Union, was forced to drop out with leg cramps.

The United States captured the team title with Lesley Welch finishing third and Ellen Hart securing ninth. The Yanks tallied 12 digits to 19 for second place Canada and 32 for Ireland in third position.

Dueling for first place, Sly, who is better known as a track runner, and Springs ran side by side throughout most of the flat, windswept Fiesta Island course. Springs made a move with just 50m to go, but couldn't change the situation and the two runners hit the tape together, both clocking 32:23. Neither runner knew who had won until the judges verdict was announced.

Springs produced a very fruitful two weeks of running. She won the NCAA Championship on November 21, won the TAC Championship on November 26 and a week plus a day later romped through the World Championship to produce three outstanding performances in a row.

RESULTS, 1-Wendy Sly (GB) 32:23, 2-Betty Springs (USA) 32:23, 3-Lesley Weich (USA) 32:41, 4-Nancy Rooks (Can) 32:57, 5-Dorthe Rasmussen (Den) 33:03, 6-Midde Ham rin (Swe) 33:06, 7-Silvia Ruegger (Can) 33:06, 8-Monica Joyce (Ire) 33:14, 9-Elien Hart (USA) 33:15, 10-Lisa Martin (Aus) 33:19, 11-Deborah Peel (GB) 33:25, 12-Suzanne Girard (USA) 33:15, 13-Anne Marie Malone (Can) 33:38, 14-Alba Milana (Ita) 33:40, 15-Carey May (Ire) 33:47, 16-Jan Merrill (USA) 33:51, 17-Monica Schafer (FRG) 33:51, 18-Carol Urish (USA) 33:56, 19-Regina Joyce (Ire) 33:57, 20-Lizanne Bussieres (Can) 33:58.

Other finishers included: 21-Jacqueline Gareau (Can) 33:58, 22-Michele Bush (USA) 34:01, 23-Giynis Quick (NZ) 34:05, 24-Fran-cine Peeters (Bel) 34:07, 25-Lia Welch (USA) 34:11, 26-Raisa Smekhnova (SU) 34:12...30-Elly Van Huist (Ned) 34:31...3-Nancy Conz (USA) 34:45...37-Eryn Forbes (USA) 35:07, 38-Nancy Ditz (USA) 35:10, 39-Laura Fogli (Ita) 35:15...45-Patricia English (USA) 35:30.... 52-Kim Schnurpfiel (USA) 36:02....54-Bonnie Tamis (USA) 36:24. Scores, 1-USA 12. 2-Canada 19. 3-Ireland

32, 4-United Kingdom 40, 5-New Zealand 51, 6-West Germany 53, 7-Australia 53, 8-Italy 55, 9-Netherlands 71, 10-Poland 79.

5th ASIAN ATHLETIC MEET

From Gurbaksh Singh Kler

Kuwait, November 5/9: The Chinese dominated the 5th Asian Athletic Meet held in Kuwait. Athletes from the Peoples Republic of China grabbed seven golds, four silvers and 1 bronze medal to score 126 points (using the 10-8-6-4-2-1 accepted method) and easily become the top nation at these Games. Surprising Taiwan, although ranked only seventh in the medal securing department with three each of silver and bronze, was second in the point scores as they picked off four fourth places, two fifth spots and three sixths for 65 points and runnerup in the scoring.

Lydia De Vega of the Philippines was the individual star of the competition winning the 100 and 200 and picking up a third in the 400. Movie star De Vega got her revenge for her loss to Thailand's 28-year old speedster Walapa Pinji who trounced the youngster at the Southeast Asia Games last June in the 100.

There were no other double winners but the PROC claimed gold in all three throwing events. There was great variance in the three weight results with the shot winner nearly 10 feet better than the runner-up and 27 feet better than 6th place; 173'11 won the disc - and less than 100' picked up fourth; only two javelin throwers entered with 25' difference in their results.

Best competition came in the 1500 and the long jump. On the track, just seven one-hundredths of a second separated second from 5th and in the long jump just 3/4 of an inch was the difference between second and fifth places.

PLACES WON & SCORES

	1	2	3	4	5	6	TOTAL	SCORES
PRC	7	4	2	3	0	0	16	126
TAI	0	3	3	4	2	3	15	65
JAP	3	2	1	1	1	1	9	59
PRK	1	3	1	2	0	0	7	48
PHI	2	1	2	0	1	0	6	42
KOR	0	1	4	2	1	0	8	42
THA	2	1	0	0	0	1	4	29
IND	1	1	0	1	3	0	6	28
JOR	0	0	1	1	1	2	5	14
LEB	0	0	1	0	0	1	2	7
BAN	0	0	0	0	1	1	2	3
INA	0	0	0	0	1	0	1	2
SIN	0	0	0	0	1	0	1	2



China's ZHENG DA ZHENG wins Asian high jump title with leap of 6'01/2 in Kuwait.

MEDALS WON

	GOLD	SILVER	BRONZE	TOTAL
PROC	7	4	1	12
JAPAN	3	2	1	6
PHIL	2	1	2	5
THAIL	2	1	0	3
PRK	1	3	2	6
INDIA	1	1	0	2
TAIWAN	0	3	3	6
S.KOR	0	1	4	5
LEB	0	0	1	1
JORDAN	0	0	1	1

100, 1-Lydia De Vega (Phil) 11.82, 2-Walapa Pinji (Tha) 12.01, 3-Shen Su Fong (Tai) 12.02, 4-Mo Myong Hi (Kor) 12.03; 200, 1-Lydia De Vega (Phil) 24.07, 2-P.T. Usha (Ind) 24.68, 3-Mo Myong Hi (Kor) 24.72, 4-Shen Shu Fong (Tai) 24.85. 400, 1-P.T.Usha (Ind) 55.20, 2-Yoshida Junko (Jap) 54.65, 3-Lydia De Vega (Phil) 55.66, 4-Huo Lianzhu (PROC) 55.68; 800, 1-Huo Lian Zhu (PROC) 2:08.92, 2-Im Chun Sil (PRK) 2:09.20, 3-Geng Xiujuan (PROC)

(PRK) 2:09,20, 3-Geng Xiujuan (PROC) 2:10.02.

1500, 1-Geng Xiu Juan (PROC) 4:30,72, 2-Gao Suju (PROC) 4:31.10, 3-Kim Lyong Sun (PRK) 4:31.13, 4-Kim Chun Hwa (PRK) 4:31.15, 5-Kim Soon Hwa (Kor) 4:31.17; 3000, 1-Kim Lyong Sun (PRK) 9:39.64, 2-Kim Chun Hwa (PRK) 9:41.34, 3-Kim Soon Hwa (Kor) 9:47,19.

Hwa (Kor) 9:47,19, 100H, 1-Sasaki Emi (Jap) 13,63, 2-Liu Huajin (PROC) 13.82, 3-Lin Yueh Hslang (Tai) 14.04, 4-Teruyo Yamazaki (Jap) 14.08; 400H, 1-Yoko Sato (Jap) 59,89, 2-Chizuko Akimoto (Jap) 59,95, 3-Agripina Dela Cruz (Phi) 61.26.

HJ, 1-Zheng Da Zheng (PROC) 6'0½, 2-Ge Ping (PROC) 6'0½, 3-Kim He Sun (Kor) 5'11¼, 4-Lje Yen Chin (Tai) 5'10; LJ, 1-Ljao Wenfen (PROC) 10'4½, 2-Eima Muros (Phi) 19'11¾, 3-Huang Donghuo (PROC) 19'11½, 4-Lin Yueh Hsinang (Tai) 19'11, 5-Mercy Kuttan (Ind) 19'9¾ SP, 1-Lu Cheng (PROC) 57'0¼, 2-So Bok

Hui (PRK) 47'11¹/₄, 3-Woo Kyon Sun (Kor) 46'4; DT, 1-Jjao Yunxjang (PROC) 173'11, 2-Chun Hwa Kyung (Kor) 154'10; JT, 1-Xin Xiaoli (PROC) 175'5, 2-Lee Hui Chen (Tai) 139'4.

4x100, 1-Thailand 46.13, 2-Taiwan 46.42, 3-Japan 46.47, 4-South Korea 47.43; 4x400,
 1-Thailand 3:48.62, 2-Taiwan 3:58.52, Heptathion, 1-Hisako Hashimoto (Jap)

Heptathion, 1-Hisako Hashimoto (Jap) 5486 (14.56-5'10'/2-34'4'/4-26.43-18'8'/2-132'7-2:26.29), 2-Ye Lian Ying (PROC) 5394 (5'10'/2-19'6'/4-2:20.94), 3-Chen Jing Yun (Tal) 5075 (37'11/4), 4-Wang Youch Hsla (Tal) 4073 (26.14).

REEL OFF (Continued)

of the statements below and if they are read carefully, one will see there is MAJOR disagreement among officials and doctors. Our feeling is that the USA is getting the royal shaft and until the IAAF can COMPLETELY CONTROL the drug situation, we're in trouble. Here, then, are some quotes from recent articles on drugs as they concern the track and field athlete:

The "Los Angeles Times" ran a series of articles on the subject of drugs and told how simple it was to get steroids. The paper even listed the names and addresses of pharmacies in Tijuana where drugs are sold over the counter. No problem.

From an article by 'Jonathon Hamilton', listed as the publisher of a "well known national sports magazine" which appeared in 'Women's Sports': "Any use of artificial aids to improve performance is cheating and should be rigorously banned as such. (There are those words 'artificial aids' again. What do you call weights and vitamins and wheat germ and special shoes and on and on and on?) And steroids MAY have many harmful side effects. Women who take steroids OFTN have deepened voices, increased growth of facial and body hair, broader shoulders and menstrual irregularities. (There's the SCARE bit again. We ask once more, do you PERSONALLY, or do any of your friends PERSONALLY know any track athlete who has these problems? Or any track athlete with a deformed baby caused by these steroids?) In addition, the present list of banned drugs is a confusing hodgepodge ranging from steroids to caffeins and substances found in eye drops, common cold remedies and even scented tampons.

"Who is cracking down on whom, and for what?"

From an article written by Dr. John Robertson which appeared in "The Nor'wester': ' "Keep in mind that there are no good studies on the effects on athletes (who have taken steroids) due to multiple variables which must be controlled, such as athletic experience, protein supplementation, training protocol, etc. Also, virtually all studies have been performed on weight lifters. None have been done with runners.

"Of interest to runners, steroids foster an increase in muscle glycogen and facilitate fat metabolism during exercise. There is also an increase in red blood cell production, which would theoretically help endurance activity.

"Russian and Eastern bloc countries support their athletes with up-to-the-minute information about training programs, biomechanical analysis of technique, personalized sports medicine programs designed to speed recovery from strenuous workouts and rehabilitate injuries, and current drug information, including proper dosages, which drugs to take, and when to stop taking them to get around laboratory testing. Our athletes can only dream of such suppoert.

Arthur Gold, president of the European Athletic Association and head of the British athletics picture stated in an article appearing in "Athletics Weekly": "We have little accurate information on the real side effects of the substances we are taking, and I lay the blame fairly and squarely on the medical fraternity who have cried wolf on this situation, as have the media, to the extent that very few people actually believe in what they are saying any more.

"At least in Europe we do have some system of doping control (as opposed to the USA which has not had any such program). (But) the chance of detection is minimal and I'm sad to say, thanks to some of my colleagues, punishments are nominal. Our task is to make sure that detection is more certain and the punishments are such that they will be a deterent. But, having said that, we have to look at the fact that most of the time we can only test at the time of competition. The use of these particular drugs is in the training period. Consequently, if doping control is to be effective we must have a system of testing at any time.

"The consequences? In some sports or events it may mean that we shall be less successful for a while. That is unfortunate, but at least the victories of those Britons who do win will never be suspect."

Mike Winch, a British weight thrower, administrator and former research scientist involved in the anaylsis of hormones in the body believed "the lack of hard facts is at the root of the problem and that, if anything, the current system of testing is making the situation even worse. There is no simplistic answer. The problem of drug taking lies in human nature. It lies in the personal moral code, it lies in politics, it lies in greed and the pure drive to succeed which, let's face it, most athletes have in great quantities.

"The problem is that the current situation has led to great inequality and some very dangerous precidents. We can certainly say that some countries have tried to circumvent tests, as have some individuals. We can also say that testing for the easily detectable substances has led to the use of substances which are less easy to detect and also are less easy to quantify in terms of their appearance in the human body. I think it is safe to say that those athletes who have the most sophisticated and best medical back-up have the best chance of winning a medal.

"It's a Catch 22 situation in which the more you promote testing for a particular substance the more the athletes say to themselves 'this substance obviously has an effect, let's try it!' Athletes will risk ANYTHING to win a gold medal."

From the TAC report covering the Pan-Am Games comes the following: "The degree of harm accompanying the use of various substances, including anabolic steroids, is open to question. One doctor has said, 'I have yet to convince one youngster that taking steroids is dangerous.' As to the effect upon the health of an individual, unfortunately not all of those in the medical profession agree upon the possible harm which flows from the use of some banned substances, particularly anabolic steroids."

The British National and Event Coaches Conference came up with a suggested rule which we guarantee will NOT be adopted by the IAAF - but it's a good one calling for the "automatic banning from international competition of a NATION should one of its athletes be found positive in a doping test. This would motivate all nations to put their domestic house in order." Would it ever!

Now the new substance is a growth hormone (somatropin) which can permanently enhance size and growth. Somatropin is used primarily on children who have not grown as they should. Commonly referred to as HGH (Humand Growth Hormone), traces were found in urine samples of some athletes at the World Championships in Helsinki.

Prince Alexandre de Morode of Belgium, chairman of the IOC Medical Commission, has said there was at present no reliable test for detecting HGH (it passes from the system in a few days). Thus it could not be on the banned list for the 1984 Olympics.

Here's what the Los Angeles "Times" had to say about HGH in a recent article: "HGH has more size and strength enhancing effects than steroids or testosterone. There is no method of testing."

Colonel F. Don Miller, ex-director of the USOC says, "We are chasing our tails around in a circle."

The drug has been used in Eastern Europe for the past ten years. A local doctor who specializes in this subject said, "100% of the HGH that goes to East Germany is used in athletes. Three-fourths of the HGH going to Canada is used in athletes."

Dr. Robert Kerr, San Gabriel, California, is one doctor who prescribes steroids, HGH et al for his patients, most of whom are Olympic class athletes. Dr. Kerr says, "The athlete who really knows what he is doing doesn't get caught with it in his system. The athletes I saw that were in Helsinki or Caracas, who were taking HGH, took the drug last winter - not last summer or spring, but last winter. The people who get caught using steroids or testosterone or HGH just don't know what they are doing.

"If you use it in the right way, your best gains come two or three months after you've finished taking the drug. Maybe even four months. Besides that, HGH is known for its permanency of effect. If you stop taking an anabolic steroid or testosterone, you're going to lose a certain percentage of the gains in strength and size. But with HGH the gains tend to stay."

Dr. Irving Dardik, chairman of the USOC Sports Medicine Council says, "I really think the idea of testing for testoserone is nonsense."

From an athlete: "I use steroids for gaining strength. I use HGH for maintaining strength. As far as my doctor knows, there are no side effects."

Prince de Merode announced, "HGH will NOT be banned at the 1984 Olympics and athletes will NOT be tested for it."

But watch out for those eye drops and that extra cup of coffee!

"Whom do you believe?"

INDOOR RESULTS

WESTERN MICHIGAN TRIALS

Kalamazoo, Michigan, Nov. 29/30 and Dec. 6: Western Michigan's indoor tracksters were put through their paces at an early date and came up with several not-so-bad performances for so early in the season. Chris Sharp sped the 1000m run in 2:59.0 and Maria Shoup had a swift 1:34.4 for 600 meters. Shoup, incidentally, was all over the place and thankful the trials were spread over three days as she won the long jump (17'7), was sixth in the shot (31' $0\frac{1}{2}$, 4th in the high jump (5'0), won the 60m hurdles (8.9), won the pentathion (3622), won the pentathlon 800 (2:22.9(in addition to her best mark winning the 600m.

Jennifer Long 43'0; HJ, Kim Houtz SP. 5'4; 300m, Josephine Williams 42.1; 55m, 1-Melanie Tillman 7.1, 2-Josephine Williams 7.1, 3-Lisa Littleton 7.1; 3000, Kayla Skelly 9:58.6.

GERRITZ WINS THREE

New Haven, Ct, Dec 3: Gerritz of the home team, was the winner of three events as the Eli staged a Developmental Meet in Coxe Cage. Gerritz (we still can't convince the Ivy League that women have first names), captured the 55m hurdles, the 400 and the long jump to show her versatility. Best mark came in the high jump where Ferns (Holy Cross) and Buchnan (Yale) were over 5'81/2.

4x200, 1-Holy Cross 1:50.12, 2-Yale 1:50. 3-Southern Connecticut 1:51.6; 1500, 59. Donovan (HC) 4:54.54.

Donovan (HC) 4:54.54. 55mH6400/LJ, Gerritz (Y) 8.72/59.50/18' 1'4; 55m, 1-Boody (SCt) 7.72, 2-Misiuk (HC) 7.74, 3-Wadsworth (Y) 7.75. 300m, 1-Ford (Y) 2:18.90, 2-Nicolau (Y) 2:19.03, 3-Sellar (HC) 2:19.18; 200, Wads-worth (Y) 27.62. 3000 Adams (Y) 10.000 adams

3000, Adams (Y) 10:42.2; 4x400, Yale (Rositol-Hollingshead-Hastings-Nicolau) 4:06.4; SP, Marques (C Ct) 37'0.

LID-LIFTER

Fairfax, Virginia, Dec. 4: Villanova's Mary Ellen McGowan turned in the best performance of the day as George Mason University staged its 'Lid-Lifter' Meet. McGowan covered 1500 meters in 4:26.5 and also picked up a second in the 800 at 2:12.6s. Morgan State's Janet Dodson ran the 300m in 38.5 and three sprinters hit the tape over 55m in 6.9.

55m, 1-Eldece Clark (Hampton Inst) 6.9, 2-Sherri Funn (Ms Int) 6.9, 3-Ramona Riley (Morgan St) 6.9, 4-Renita Dingle (Ms Int) 7.0;

(Morgan St) 6.9, 4-Kentra Dingle (MS Int) 7.0; 55mH, Thomasina Busch (HI) 8.0. 300m, 1-Sherri Funn (Ms) 39.0, 2-Terri Dendy (GM) 39.7; 300m (second section) Janet Dodson (Morg) 38.5; 400, 1-Michelle Collins (DelSt) 55.7, 2-Zanderland Dixon (Morg) 56.6.

600m, 1-Lorraine Dortch (DelSt) 1:32.9, 2-Jeannette Palmer (HI) 1:32.9, 3-Debbie Grant (VII) 1:33.3, 4-Joanne Krebs (VII) 1:33.6; 800, 1-Wanda Trent (Ms) 2:12.0, 2-Mary Ellen



Morgan State's JANET DODSON won the meters in a good 38.5 at the George Mason Lid-Lifter. (Jeff Johnson photo)

McGowan (Vil) 2:12,6, 3-Patty Bradley (Vil) 2:13.4.

1500, 1-Mary Ellen McGowan (Vil) 4:26.5, 2-Debbie Roberson (Ms) 4:36.9; 3000, Melissa Grubb (Vii) 10:02.3; 4x400, 1-Morgan State 3:47.0, 2-Delaware State 3:47.5, 3-Howard 3:48.0.

HJ, Wanda Johnson (Morg) 5'8; LJ, Brenda Bailey (How) 19'8³; TJ, Gibson (How) 34'6³; SP, Sherry Green (Morg) 42'5.

HOLIDAY INVITATIONAL

Fairfax, Virginia, December 9: A whole passel of fine early season marks were turned in as George Mason University staged the second indoor meet of the year, the Holiday Invitational. Better-than-expected early season marks were run in the 300 (Terri Dendy, George Mason) 39.51, in the 400 by Michelle Collins (Delaware State) in 55.92, a 1;13.55 clocking for 500 meters by Lorraine Dortsch (Delaware State), a 2;10.14 800m by veteran Debbie Roberson (Ms Int) and good performances in all the relays, especially by Villanova in the 4x800 a 1-2 finish for their 'A' and 'B' teams, both under nine minutes.

In the field, Maryland's Marita Walton began her year with a fine toss of 52'3 to win the shot and Juanita Alston of the Falcon Track Club scored close to 4000 points to win the pentathlon.

55m, 1-Robin Benjamin (FTC) 7.0, 2-Ra-mona Riley (Morg St) 7.0, 3-Janet Dodson (Morg St) 7.1; 55mH, 1-Janet Williams (Towson) 8.0, 2-Letha Carson (NY Tech) 8.1; 300m,

1-Terri Dendy (GM) 39.51, 2-Robin Benjamin (FTC) 39.74, 3-Josephine Hobbs (Ms Int) 40.83, 4-Zanderland Dixon (Morg St) 41.18, 400, 1-Michelle Collins (Del St) 55.92, 2-Sherri Funn (Ms Int) 56.06, 3-Kathy Brooks

(Howard) 57.07; 500m, 1-Lorraine Doetsch (Del St) 1:13.55, 2-Karen Gascoigne (Howard) 1:14.04, 3-Stefani Green (Navy) 1:17.62; 800, 1-Debbi Roberson (Ms Int) 2:10.14, 2-Wanda Trant (Ms Int) 1:11.35, 3-Cynthia Colquitt (Morg St) 2:14.0.

1500, 1-Lauren Searby (Vil) 4:36.4, 2-Mellssa Grubb (Vil) 4:39.8, 3=Coleen Gallagh-er (Vil) 4:41.2; 3000, 1-Kelly Michaels (GM)

er (VII) 4:41.2; 3000, 1-Relly Michaels (GM) 10:07.43, 2-Denise Fleenor (GM) 10:12.74. 4x200, 1-Morgan State 1:38.81, 2-Delaware State 1:42.33, 3-Howard 1:42.96, 4-George Mason 1:43.24, 5-Maryland 1:44.92; 4x800, 1-Villanova 'A' 8:46.95, 2=Villanova 'B' 8:51.92, 3-Georgetown 9:20.2, 4-George Mason 9:21.3; 4x400, 1-Ms International 3:45.3, 2-Howard 3:45.7, 3-Delaware State 3:47.1, 4-Morgan 3:45.7, 3-De State 3:52.1.

State 3:52.1. SP, 1-Marita Walton (Md) 52'3, 2-Sherice Smaw (Ms Int) 42'1^{1/4}; TJ, 1-Brenda Balley (How) 37'6^{3/4}, 2-Shirile Gibsen (Howard) 35'9^{3/4}; LJ, 1-Theresa Allen (How) 19'6^{1/2}, 2-Brenda Balley (How) 19'2^{1/2}, 3-Carol Galloway (Ms Int) 19'1; HJ, 1-Tammy Penny (Md) 5'7^{1/4}, 2-Wanda Johnson (Morg St) 5'6. Pentathion, 1-Juanita Alston (FTC) 3987 (8.6-38'11-5'6^{1/2}-19'2^{3/4}-2:23.5), 2-Tina Shriver (Towson) 3409 3-Chris Larsen (Mt, St Marv's)

(Towson) 3409, 3-Chris Larsen (Mt. St Mary's) 3286

HARVARD WINS DUAL

Cambridge, Mass, Dec. 10: Harvard edged host Boston College 62-51 in an indoor dual at the lvv halls. Best mark of the festivities was the 17:15.6 for 5000m by Harvard's Kathy Goode.

SP, 1-Durante (H) 38'5, 2-Boulris (H) 37'10, 3-Acacia (H) 17'6½; LJ655mH, Patterson (H) 16'9½68.5; 4x220, 1-BC 1:45.52, 2-Harvard 1:45.87,

1500, 1-Simon (H) 4:37.4, 2-Willis (BC) 4:40.6; 3000, Fallon (BC) 9:53.2, 2-Goode (H) 9:55.8; 5000, 1-Goode (H) 17:15.6, 2-Keltz (H) 17:35.

HJ, Supple (BC) 5'4; 4x440, BC 3:59.55; 4x880, Harvard 9:29.7; 400, Busby (H) 58.63; 55m, Freeman (BC) 7.49; 800, Harring (H) 2:16.6; 200, 1-Freeman (BC) 26.1, 2-Busby (H) 26.1.

CORNELL RELAYS

Ithaca, NY, Dec. 11: Host Cornell won all but two events at their Indoor Relays. Best mark came from shot putter Stone of Cornell with a toss of 39'4.

55mH, 1-Glat (C) 8.8, 2-Gagnon (Syr) 8.8; 55m, George (Syr) 7.42; 5000, Lutz (C) 18:49.4; LJ, Kulik (C) 17'6³4; HJ, 1-Rothschild (Un) 5'5, 2-Daniels (Syr) 5'5; SP, Stone (C) 39'4.

DMed/SMed/4x400/4x800,Cirnell 12:30.1/ 4:09.6/4:02.1/9:31.1.

INDOOR RESULTS (Cont)

SYRACUSE RELAYS

Syracuse, NY, Dec. 11: Two good early season relay marks by Cornell topped the show at the Syracuse Relays.

Biggest question arising concerns the fact these same people competed in the Cornell Relays in Ithaca on the same day! Just how this was accomplished is a question we'd like answered so we can sleep at night!

LJ, Sharon Daniels (Syr) 18'7^{1/4}; 3000, Kathy Lutz (Cornell) 10:31.1; HJ, Sharon Gleasman (Un) 5'7; 50mH, 1-Jerri Gist (C) 7.8, 2-Sherri Gagnon (S) 7.9, 3-Bunny Averlett (S) 8.1.

50m, 1-Lisa George (S) 6.7, 2-Julie Cumberbatch (C) 6.7, 3-Lola Sergant (C) 6.8, 4-Kathy Borchelt (C) 7.0; SMed, Syracuse (Miller-George-Dobbins-Gagnon) 1:52.6; 1500, Sandy Rymph (C) 5:05.4.

4x200, 1-Cornell (Taylor-Gist-Johnson-Borchelt) 1:44.6, 2-Syracuse 1:47.8; DMed, 1-Cornell (Feeley-Bragdon-Day-Schmidt) 12:15.1, 2-Syracuse 12:44.3; 4x800, 1-Cornell (Jones-Schmidt-Jones-Carter) 9:18.1, 2-Cornell 10:02.1; 4x400, 1-Cornell 3:59.1.

BOSTON HOLIDAY CLASSIC

Boston, Mass, Dec. 27: Boston University's Anne Jennings was a double winner in the long jump and hurdles as Bean City staged its Annual Holiday Classic. Jennings hopped 18'3 and ran 8.0 flat for her wins.

Best performance came in the 1500 where veteran Judi St. Hilaire sped 4:31.3 to pip Mary Herlighy (4:32.0) and Mary McNaughton (4:32.7).

Brandeis' Lauren Andrews upset Alabama's Pia lacovo to win the shot at 46'01/2.

LJ, Anne Jennings (BU) 18'3; TJ, 1-Ann Burke (Taunton) 35'7¼, 2-Sue Gagnon (Syr) 35'2; SP, 1-Lauren Andrews (Bran) 46'0½, 2-Pia Iacovo (AI) 45'10, HJ, 1-Maureen Ferns (HC) 5'8, 2-Kyle Emery (Taunton TC) 5'8; 55mH, 1-Anne Jenn-ings (BU) 8.0, 2-Kelly Toole (NE) 8.2; 55m, 1-Nichole Williame (Elvors TC) 7.0, 2-1 estile Free-

Nichole Williams (Flyers TC) 7.0, 2-Leslie Freeman (BC) 7.2,

4x200, Boston International TC 1:43.4; 1500, 1-Judj St. Hlaire (AW) 4:31.3, 2-Mary Herlighy (Lib AC) 4:32.0, 3-Mary McNaughton (HC) 4:32.7, 4-Julje LeClair (HC) 4:37.5, 5-(HC) 4:32.7, 4-Julje LeClair (HC) 4:37.5, 5-Karen Dunn (NBTC) 4:38.1; 400, 1-Krystal Sheets (Morgan St) 58.5, 2-Melanle Stone (UMB) 58.9; 800, 1-Caroline Mitchell (Ct) 2:18.7, 2-Nancy Culljnane (BUTC) 2:19.1, 3000, 1-Alison Quelch (Tn) 9:35.9, 2-Karen Dunn (NBTC) 9:44.5, 3-Janice Cataldo (Ocean State TC) 9:57.0; 4x800, 1-Holy Cross 9:31.1, 2-BITC 9:33.6; 4x400, BITC 3:54.2.

BOSTON/ADIDAS OPEN

Boston, Mass, Date not known: BU's Anne Jennings won her usual two events at the Boston/Adidas Open, capturing the long jump and hurdles. Maxine Underwood had a good 600y performance, winning in 1:23.9. Boston University captured the team title over 15 other competing schools.

OUTDOOR RESULTS

46 FLAT FOR PV 4x100

Prairie View, Texas, Dec. 10: Prairie View A&M staged their Winter Relays without much excitement EXCEPT their 4x100 team of Lynn Gamble, Diedre Jackson, Jocelyn Tatum and Evan Williams cut loose with a 46.0 clocking, outstanding for this time of year especially considering Prairie View's best 1983 outdoor mark was just one second faster and was the 12th best time of the year in all of the USA. Williams also won the 150m sprint with a meet record of 16.79 and Diedria Smith triple jumped 37'7.

CSLA ALL COMERS HARMON WHIPS ASHFORD

Los Angeles, Cal, Dec. 10: Cal State Los Angeles staged its first All-Comers affair of the season and the big news came when Marlene Harmon whipped Evelyn Ashford on the track. Actually the beating took place over 3000 meters and neither Harmon nor Ashford will treasure the time in their memory books as Ashford took more than 13 minutes to negotiate the distance.

There were three double winners with Sandra Farmer turning in the best marks while winning the 60y hurdles and the 200.

HJ, Sue Patterson (Un) 5'6; SP/DT, Molly Koffman (Un) 37'6/108'8. 60yH/200, Sandra Farmer (Un) 8.34/

25.52; 60y/300m, Tesha Giddens (Locke HS)

7.32/42.3. 500m, 1-Donna Curtis (USC) 1:16.4, 2-Robin Simmons (USC) 1:16.7; 800, Christi

Olson (Un) 2:24.0. 1000m, Kim Ojeda (Un) 3:18.9; 3000, 1-Michele Hopper (Un) 9:43.7...3-Marlene Har-mon (Med TC) 11:27.9....5-Evelyn Ashford (Med TC) 13:03.1.

BOSTON/ADIDAS (Cont)

600y, 1-Maxine Undersood (PAL) 1:23.9, 2-Simpson (PAL) 1:24.1; 1500, 1-O' (Mass) 4:42.1, 2-Brunetto (Fitch) 4:42.2, 1-O'Reilly

4x200, 1-Boston U 1:43.1, 2-NU 1:43.5; 1000y, Rogers (Lib AC) 2:41.1; 800m, Connel-ly (BU) 2:19.6.

55m, 1-Morrison (Mass) 7.2, 2-White (BU) 7.3; 55mH, 1-Anne Jenings (BU) 8.1, 2-Kelley

 Joseph M. J. P. Anne Sennings (BO) 8.1, 2-Keney
 Toole (NU) 8.2, 3000, Pratt (Mass) 10:25.3; LJ, Anne
 Jennings (BU) 18'0³/₄; SP, Lauren Anderson (B)
 AS'3³/₄; HJ, 1-Maureen Ferns (HC) 5'8, 2-Kyle
 Emery (Taunton TC) 5'6; TJ, Brown (BU) 35'31/2.

35'3/2.
4×800, Fitch 9:49.1; 4×400, 1-PAL 3:47.6,
2-Boston Int TC 3:51.0.
Scores, 1-Boston U 71, 2-Massachusetts
68, 3-Boston International TC 60, 4-Northeastern 4, 5-Fitch 30, 6-PAL 29, 7-Lowell
22, 8-Liberty AC 16, 9-Westfield 11, 10Brandeis and Holy Cross 10, 12-Bates, Mass/Bos
and Tauton TC 8, 15-Ampert 6, 16-SCSU 5 and Taunton TC 8, 15-Amherst 6, 16-SCSU 5.

CSLA ALL COMERS

Los Angeles, Cal, Dec. 17: Four stadium records were set as Cal State Los Angeles staged its second All Comers Meet of the season.

Returning to the track wars, Debbie La-Plante Smith cut the stadium record for the 60y hurdles down to 7.7. Sandra Howard took the 300m hurdle mark to 40.2, prepster Choo Choo Knighten has the SR for 500m at 1:13.0 and veteran Michele Hopper now owns the 10k mark at 35:51.8.

LJ' Catherine Williams (CA) 17'5; TJ, Renita Robinson (Manual Arts HS) 37'9³4; SP/DT/JT, Collen Kevany (El Camino JC) 34'1^{1/2}/101'11/119'8.

609H, 1-Debbie Smith (CA) 7.7, 2-Nancy Young (EC) 8.1; 200, 1-Lisa Hopkins (Puma) 24.6, 2-Choo Choo Knighten (Locke HS) 25.2

300m, 1-Sandra Farmer (Puma) 40.2, 2-Deanny Amy (Hawthorne HS) 41.8, 3-Steph-anie Brown (CSLA) 42.3; 500m, 1-Choo Choo

anie Brown (CSLA) 42.3; 500m, 1-Choo Choo Knighten (LHS) 1:13.0, 2-Sandra Farmer (P) 1:14.8, 3-Myra Maycrovy (Un) 1:16.1. 800, 1-Trescia Palmer (CAL) 2:12.8, 2 Sylvia Mosqueda (San Gabriel HS) 2:19.3; 1000m, 1-Rose Monday (Puma) 2:52.6 (Stad-ium Record), 2-Carla Johnson (EC) 2:58.4. 5000 (One lap short), 1-Sylvia Mosqueda (SGHS) 16'10.2, 2-Michele Hopper (Puma) 16:44.0; 10000, Michele Hopper (Puma) 35:51.8: 4x100. Hawthorne HS 50.4. 35:51.8; 4x100, Hawthorne HS 50.4.

DASSE 54'11/2

Los Angeles, Cal, Dec. 24: California Athletics' Bonnie Dasse, who moved high on the All-Time US List last year with a shot mark of 54'714, opened her 1984 campaign with a nifty toss of 54'11/2 as Cal State Los Angeles staged yet another of its pre-season All Comers meets. Dasse also won the disc with a throw of 150'8. Both marks were stadium records.

Elsewhere, Jennifer Inniss, Sandra Farmer and Choo Choo Knighten did most of the damage. Inniss edged Lisa Hopkins in the 60v dash with a new stadium record at 6.8 and picked up a second behind Farmer in the 300. Farmer won the 60y hurdles (8.2) and the 300, the latter with a new stadium mark at 39.7. Prespster Knighten was 4th in the 60 (7.0), won the 200 (24.9) and won the 500m with a new stadium record at 1:12.0.

60yH, Sandra Farmer (Un) 8.2; 400H, Jackie Campbell (Manual Arts HS) 69.8; 60y, 1-Jennifer Inniss (CSLA) 6.8, 2-Lisa Hopkins (Puma) 6.8, 3-Tesha Giddens (Locke HS) 6.9, 4-Choo Choo Knighten (Locke HS) 7.0; (Un) 39.7, 2-Jennifer Inniss (CSLA) 40.4; 500m, 1-Choo Choo Knighten (LHS) 1:12.0,

 2-Rose Monday (Puma) 1:12,5, 10000, Michelle Hopper (Puma) 37:45.0;
 SP, 1-Bonnie Dasse (CA) 54'1¹/₂, 2-Molly Koffman (Un) 39/81/2; DT, 1-Dasse 150/8, 2-Koff-man 117'7.1;000m, Sharon Dabney (CSLA) . 3:02.0.

USA ALL-TIME INDOOR TOP 10

-					-			-
50 YARDS			400 METE	RS (*=Hand time +0.14; @	= 440y	2:45.44*	Brigid Leddy	80
5.74	Evelyn Ashford	83	400 METE	-0.14)		2:45.64*	Dana Glidden	80
5.79	Alice Brown	83	53.11@	Sharon Dabney	78	2:45.64*	Cindy Bremser	82
5.80	Jeanette Bolden	82	53.15@	Lori McCauley	83	2:47.14*	Julie Brown	76
5.84	Chandra Cheeseborough	81	53.17	Diane Dixon	83			
5.86	Deandra Carney	78	53.20*@	Delisa Walton	83	1500 METE	DC	
5.89	Kim Robinson	78	53.31	Gwen Gardner	80	4:00.8	Mary Decker	80
5.91	Dlane Williams	83	53.54*	Maxine Underwood	82	4:09.8	Francie Larrieu	75
5.93	Sandra Howard	83	53.59	Edna Brown	82	4:10.9	Cindy Bremser	80
5.95	Angle Toney	81	53.62@	Rosalyn Bryant	80	4:13.4	Maggie Keyes	80.
5.96	Brenda Morehead	80				4:13.6	Jan Merrill	80
5.97	Pat Miller	80	500 YARD			4:14.0	Darlene Beckford	80
			1:03.3	Rosalyn Bryant	77	4:17.2	Debble Heald	79
	6 (†=No confirmation)		1:03.5	LaShon Nedd	82	4:17.2	Margaret Groos	81
6.12†	Kathrene Wallace	83	1:03.6	Arlise Emerson	82	4:17.5	Brenda Webb	83
6.13	Jeanette Bolden	81 .	1:03.7	Gwen Gardner	80	4:17.9	Debbie Vetter	78
6.13†	Vivian Brown	83	1:04.1	Denean Howard	81			
6.16	Evelyn Ashford	83	1:04.5	Paulette Clagon	81 81	One Mile (*	=Hand time +0.14)	
6.21	Allce Brown	81 .	1:04.6 1:04.6	Brenda Peterson Deann Gutowski	83	4:20.64*	Mary Decker	82
6.23 6.24	Chandra Cheeseborough Esther Hope	83 82 -	1:04.0	Lorna Forde	80	4:28.64*	Francie Larrieu	75
	Eunice Jones		1:05.1	Jarvis Scott	76	4:30.12	Darlene Beckford	83
6.30 6.31	Ada Hay	82 83	1:05.1	Jarvis Scott	10	4:31.14*	Jan Merrill	77
6.34	Brenda Morehead	79				4:31.24*	Debble Heald	78
6.38†	C. Williams	83	FOO METER	C (*=Hand time +0.14)		4:32.42	Cindy Bremser	83
6.391	L. Cole	83 .	1:11.14	RS (*=Hand time +0.14) Edna Brown	83,	4:32.92	Cathle Twomey	82
6.40	Dollie Fleetwood	80	1:11.14	Delisa Walton	82	4:33.26	Leann Warren	82
6.401	E. Boss	83 -	1:11.94*	Rosalyn Bryant	77	4:33.91	Brigid Leddy	80
6.40	Shella LaBome	83	1:12.54*	Debbie Roberson	83	4:34.04*	Joan Hansen	82
01.10			1:12.74*	Kim Thomas	80		and the second second	
60 YARDS			1:12.74*	Gail Conway	83		RS (*=Hand time +0.14)	Maria
6.54	Evelyn Ashford	82	1:12.74*	Kathy Weston	79	8:47.44*	Mary Decker	82
6.59	Jeanette Bolden	82 .	1:13.04	Donithy Jones	83	8:53.54	PattiSue Plumer	83
6.59	Chandra Cheeseborough	83	1:13.05	Ellen Hart	83	8:53,55	Joan Benoit	83
6.62	Alice Brown	81	1:13.14*	Maria Dwyer	80	8:57.74*	Jan Merrill	78
6.65	Wanda Fort	83	1.13.14	Maria Dwyci	001	9:02.54*	Francle Larrieu	74
6.71	Brenda Morehead	82	600 YARD	S (*=Hand time +0.14)		9:07.54*	Brenda Webb	82
6.72	Deandra Carney	78	1:17.38	Delisa Walton	82	9:08.40	Cindy Bremser	83
6.73	Michele Glover	81	1:18.56	Rosalyn Dunlap	82	9:08.64*	Margaret Groos	80
6.74	Diane Williams	83 .	1:18.62	Robbin Coleman	82	9:09.49	Jenny Stricker	83
6.75	Dollie Fleetwood	79	1:19.44*	Robin Campbell	74	9:11.14*	Joan Hansen	81
0.70	Bollio Protinoca		1:19.88	Lee Ann Van Landingham	82	9:11.14*	Kathy Hayes	83
60 METERS			1:20.08	Annette Campbell	83			
7.21	Jeanette Bolden	81	1:20.16	Ovril Brown	83			
7.28	Brenda Morehead	80 .	1:20.34	Taml Hart	83 -		S (*=Hand time +0.14)	83
7.28	Sherrl Funn	81	1:20.43	Gretchen Grier	83	9:31.84*	Mary Decker	83
7.29	Chandra Cheeseborough	82	1:20.50	Joyce Wilson	83 -	9:33.34*	Jan Merrill	82
7.29	Evelyn Ashford	83	1.1.010.0	,		9:37.03	Joan Hansen	82
7.32	Deandra Carney	79	600 METE	RS (*=Hand time +0.14)		9:37.64	Brenda Webb	
7.34	Lisa Thompson	81 .	1:26.56	Dellsa Walton	81 -	9:37.65	Margaret Groos	82
7.42	Maria Parsons	80	1:28.82	Pam Sedwick	81	9:38.24*	Francie Larrieu	81
7.43	Michele Glover	81 -	1:28.94*	Chris Mullen	80 -	9:43.33	Jenny Stricker	83
7.43	Beatrice Reese	82	1:29.04*	Ovrill Brown	83	9:45.14*	Cindy Bremser	80 83
7.43	Elaine Jones	83	1:29.54*	Wendy Knudson	76	9:45.54*	PattiSue Plumer	79
			1:19.54*	Piper Bressant	83	9:46.24*	Julie Brown	19
			1:29.91	Annette Campbell	83	THREE MU	_ES (*=Hand time +0.14)	
			1:29.95	Lorna Forde	82 .	15:18.47	Kellle Cathey	82
200 METER	RS (*=Hand time +0.24;	@=220y	1:30.20	Wanda Trent	81	15:18.83	Kathy Bryant	82
	-0.12)		1:30.24*	Robin Campbell	74 -	15:18.94	Andrea Fischer	83
23.13@	Chandra Cheeseborough	82			-	15:25.25	Martha White	82
23.54*	Rosalyn Bryant	77	800 METE	RS (*=Hand time +0.14;	@=880y	15:27.53	Nan Doak	82
23.69@	LaShon Nedd	82 -		-0.70)	-	15:34.54	Lesley Welch	82
23.73@	Alice Jackson	82	1:59.04*	Mary Decker	80	15'41.54*	Pla Palladino	80
23.74@	Florence Griffith	81 .	2:02.40@	Dellsa Walton	83	15:43.26	Marianne Dickerson	83
23.86@	Sheryl Pernell	81	2:02.84@	Robin Campbell	83	15:44.44*	Anne Sullivan	80
23.94*	Gwen Gardner	79	2:03.47@	Lee Arbogast	83	15:44.69	Cathy Branta	. 83
24.00	Wanda Hooker	80 .	2:03.84	Joetta Clark	83			
24.00	Deborah Jones	80	2:03.91@	Leann Warren	82	5000 METE	RS (*=Hand time +0.14)	
24.09	Liz Young	79 .	2:,03.94*@	Madeline Manning	80 -	15:34.64*	Margaret Groos	81
			2:04.44*	Darlene Beckford	83	15:50.34	Joan Benoit	83
	5 (*=Hand time +0.24)		2:05.14*	Diane Richburg	83	16:13.14*	Nan Doak	82
33.83	Diane Dixon	83	2:05.44*@		78	16:21.74*	Lesley Welch	82
33.98	Angela Thacker	83	2:05.44*	Wendy Knudson	79	16:21.94*	Ann Hird	83
34.07	Rosalyn Bryant	80 .				16:22.74*	Melanie Weaver	82
34.07	Randy Glvens	82		DS (*=Hand time +0.14)	70	16:23.44*	Brenda Webb	83
34.50	Liz Young	79 .	2:23.94*	Mary Decker	78 -	16:23.84*	Kathy Bryant	82
34.54	Val Boyer	81	2:25.14*	Diane Richburg	83	16:25.14*	Kim Bird	82
34.54	Maxine Underwood	82 .	2:25.24*	Barbara Lawson	73	16:27.14*	Marlan Teltsch	83
34.64	Belinda Little	83 .	2:25.74*	Debble Heald	79.			
34.71	Stephanle Bonner	83	2:25.94*	Wendy Knudson	79 82 -		LES (*=Hand time +0.24)	A State
34.78	Lillie Leatherwood	83 .	2:26.44	Dorene Startare	82 -	6.37	Deby LaPlante	78
200 METER	C (t=Hand time +0.04)		2:26.70	Joetta Clark	75 -	. 6.39	Patty Van Wolvelaere	78
	IS (*=Hand time +0.24)		2:26.94*	Francie Larrieu	79	6.44	Candy Young	80
37.50	Diane Dixon	83	2:27.34*	Marcia Romesser	81	6.50	Stephanle Hightower	82
37.54	Janet Dodson	82	2:27.34*	Robin Campbell	01	6.54*	Jane Frederick	77
37.55	Evalene Hatcher	82	1000 MET	ERS (*=Hand time +0.14)		6.61	Lorl Dinello	78
37.98	Robin Jackson	81 82 -			83 -	6.61	Kim Turner	82
38.24	Pat Melton		2:40.24*	Diane Richburg	75	6.64*	Mamle Rallins	73
38.33	Randy Glvens	81 83 ·	2:40.34*	Francie Larrieu Joetta Clark	83	- 6.64*	Lacey O'Neal	73
38.42	Alice Jackson	80	2:41.83		77	6.72	Benita Fitzgerald	81
38.44*	Linda Bedford	81	2:42.24*	Cyndy Poor Jan Merrill	76	*		
38.47 38.54*	Gwen Smith Beverly Kearney .	80 .	2:42.34*	Chris Mullen	80 -		Continued or	Page 11
00.04	Lotony realingy .		2.40.00					

WORLD ALL-TIME INDOOR TOP 10

50 YARDS	Evolution Ash found (U.C.A.)	0.2	51.62 51.80	Kirsten Siemon (DDR) Verona Elder (GB)	83 79	4:00.94*	RS (*=Hand time +0.14) Mary Decker (USA)
5.74 5.79	Evelyn Ashford (USA) Allce Brown (USA)	83 83	51.90	Karoline Kafer (Aut)	79	4:03.14*	Natalia Marasescu (Rom)
5.80	Andrea Lynch (GB)	78	. 51.99	Angella Taylor (Can)	81	. 4:04.01	Gabrielle Dorio (Ita)
5.80	Jeanette Bolden (USA)	82	52.20	Yelena Korban (SU)	83	4:04.04*	Zamira Zaitseva (SU)
5.81	Lyudmila Storozhkova (SU)	79				4:04.22	Brigitte Kraus (FRG)
5.84	Chandra Cheeseborough (USA		500 YARDS 1:03.3	Rosalyn Bryant (USA)	77	4:05.54*	lleana Silai (Rom) Tatyana Posdynakova (SU)
5.85	Vera Anisimova (SU) Angella Taylor (Can)	79 81	1:03.3	Janine MacGregor (CGB)	82	4:06.54	Beate Liebich (DDR)
5.85 5.85	Angela Balley (Can)	82	1:03.4	Lorna Forde (Bar)	76	4:06.93	Fita Lovin (SU)
5.86	Deandra Carney (USA)	78	- 1:03.5	LaShon Nedd (USA)	82	4:07.49	Agnese Possamai (Ita)
5.88	Jennifer Inniss (Guy)	83	1:03.6	Arlise Emerson (USA)	82		
			1:03.7	Gwen Gardner (USA)	80		
50 METERS			1:04.1	Denean Howard (USA)	81	. 4:20.64*	Mary Decker (USA)
6.11	Marita Koch (DDR)	80	1:04.5	Paulette Clagon (USA) June Griffith (Guy)	81	4:28.46	Nadyezhda Ralldugina (SU)
6.12	Marlies Gohr (DDR)	80	1:04.6	Brenda Peterson (USA)	82 81	4:28.55 4:28.64*	Maricica Puica (Rom) Francie Larrieu (USA)
6.13 6.16	Jeanette Bolden (USA) Evelyn Ashford (USA)	81 83	1:04.6	Deann Gutowski (USA)	83	4:28.90	Gabriella Dorio (Ita)
6.17	Sofka Popova (Bul)	81	1.0410	Beam Gatomati (OSA)	00	4:29.54	Beate Liebich (DDR)
6.17	Linda Haglund (Swe)	81		S (*=Hand time +0.14)		4:30.09	Wendy Sly (GB)
6.19	Renate Stecher (DDR)	74	1:10.64*	Lorna Forde (Bar)	78	. 4:30.12	Darlene Beckford (USA)
6.19	Angella Taylor (Can)	81	1:11.84*	Delisa Walton (USA)	80	4:30.24*	Zamira Zaitseva (SU)
6.20	Ingrid Auerswald (DDR)	81	- 1:11.84 1:11.94*	Edna Brown (USA) Rosalyn Bryant (USA)	82 77	· 4:31,24	Jo White (GB)
6.21	Alice Brown (USA) Wendy Hoyte (GB)	81 81	1:12.04*	Helen Blake (Jam)	80	3000 METE	RS (*=Hand time +0.14)
6.21	Wendy Hoyte (GB)	01	1:12.11	Molly Killingbeck (Can)	82	8:47.44*	Mary Decker (USA)
60 YARDS			1:12.24*	Brenda Walsh (Can)	72	8:50.94*	Grete Waitz (Nor)
6.54	Evelyn Ashford (USA)	82	1:12.44*	June Griffith (Guy)	79	8:52,84	Gabriele Riemann (DDR)
6.59	Jeanette Bolden (USA)	82	1:12.54*	Debbie Roberson (USA)	83	8:53.54	PattiSue Plumer (USA)
6.59	Chandra Cheeseborough(USA		1:12.74*	Kim Thomas (USA)	80	8:53.55	Joan Benoit (USA)
6.61	Merlene Ottey (Jam)	82				8:53.77 8:54.19	Agnese Possamai (Ita) Svyetlana Ulmassova (SU)
6.62	Alice Brown (USA) Lyudmila Storozhkova (SU)	81 79	600 YARDS	(*=Hand time +0.14)		8:54.26	Maricicia Puica (Rom)
6.63 6.66	Marlies Gohr (DDR)	83	1:17.38	Delisa Walton (USA)	82	8:55.04	Tatyana Sycheva (SU)
6.71	Vyera Anisimova (SU)	79	.1:18,54*	Yvonne Saunders (Can)	74	- 8:55,13	Tatyana Pozdntskova (SU)
6.71	Brenda Morehead (USA)	82	1:18,56	Rosalyn Dunlap (USA)	82		
6.72	Deandra Carney (USA)	78	1:18,62	Robbin Coleman (USA)	82		_ES (*=Hand time +0.24)
			1:18.85 1:19.10	Marcia Tate (Jam) Nicole Ali (Can)	83 83	6.20	Johanna Klier (DDR)
60 METERS		0.0	1:19.44*	Robin Campbell (USA)	74	6.35	Esther Rot (Isr) Deby LaPlante (USA)
7.08 7.09	Marita Koch (DDR) Marlies Gohr (DDR)	83 83	1:19.88	Lee Van Landingham (USA)	82	6.39	Patty VanWolvelaere(USA)
7.11	Sofka Popova (Bul)	80	1:19.94*	Roberta Angeloni (Can)	74	6.41	Gudrun Wakan (DDR)
7.12	Silke Gladisch (DDR)	83	1:19.94*	Rochelle Campbell (Can)	74	6.44*	Annelie Ehrhardt (DDR)
7.13	Linda Haglund (Swe)	78				6.44	Candy Young (USA)
7.16	Renate Stecher (DDR)	74		S (*=Hand time +0.14)	0.1	6.48	Silvia Kempin (FRG)
7.17	Andrea Lynch (GB)	74	1:26.56	Delisa Walton (USA) Molly Killingbeck (Can)	81 83	6.50	Stephanie Hightower (USA) Liz Damman (Can)
7.19 7.19	Christina Lathan (DDR)	80 83	1:27.44*	Nadyezhda Olizaryenko (SU)	80	6.52	Nina Dyerbina (SU)
7.19	Beverly Kinch (GB) Marisa Masullo (Ita)	83	1:27.54*	Linsey MacDonald (GB)	81	0.02	ittila Byerbilla (BO)
1.1.5	Maria Masario (ita)	00	1:28,04*	Anna Kastetskaya (SU)	81	· 50m HURD	I FS
200 METER	S (@=220y -0.12)		1:28.07	Cathy Rattray (Jam)	83	6.74	Annelje Ehrhardt (DDR)
22.39	Marita Koch (DDR)	83	1:28.33	Jane Fitch (GB)	83	6.74	Zofia Bielczyk (Pol)
22,64	Gesine Walther (DDR)	82	1:28.34*	Larisa Golovanova (SU) Janine MacGregor (Can)	81 81	6.76	Danuta Perka (Pol)
22.76	Jarmila Kratochvilova (Cze)	81	1:28.54*	Nina Rutshayeva (SU)	81	6.77	Grazyna Rabsztun (Pol)
22.79 22.94	Merlene Ottey (Jam) Christina Sussick (FRG)	82 81	1:28.82	Pam Sedwick (USA)	81	6,80	Maria Merchuk (SU)
23.11	Kerstin Walther (DDR)	83				6.81	Tatyana Anisimova (SU) Silvia Kempin (FRG)
23.12	Heldl Gaugel (FRG)	81	800 METER	RS (*=Hand time +0.14; @=8	80y	6.85	Lidia Gusheva (SU)
23.13@	Chandra Cheeseborough(USA) 82		-0.70)		6.85	Candy Young (USA)
23.15	Angella Taylor (Can)	80	1:58.54*	Olga Vakrusheva (SU) Mary Decker (USA)	80 80	6,86	Bettina Jahn (DDR)
23.22	Annegret Richter (FRG)	77	1:59.04*@ 1:59.24	Martina Steuk (DDR)	82		
300 VAPDS	(*=Hand time +0.24)		1:59.76	Beate Liebich (DDR)	82		
32.63	Merlene Ottey (Jam)	82	. 2:00.04*	Ursula Hook (FRG)	79		LES (*=Hand time +0.24)
33.64*	Angella Taylor (Can)	80	2:00.23	Doina Melinte (Rom)	83	7.36	Stephanie Hightower (USA)
33.83	Diane Dixon (USA)	83	2:00.47	Lyubov Gurina (SU)	83	7.37	Candy Young (USA) Kersten Knabe (DDR)
33,98	Angela Thacker (USA)	83	2:00,64*	Nikolina Shtereva (Bul) Jolanta Januchta (Pol)	79 80	7.47	Kim Turner (USA)
34.07	Rosalyn Bryant (USA)	80	2:00,74	Fita Lovin (SU)	82	7.51	Deby LaPlante (USA)
34.07 34.20	Randy Givens (USA) Rita Bottiglieri (Ita)	82 78	2.00.74	1 1(a 20111 (30)	02	7,52	Benita Fitzgerlad (USA)
34.24*	Ruth Simpson (Jam)	81	. 1000 YARD	S (*=Hand time +0.14)		7.54*	Jane Frederick (USA)
34.31	Janet Burke (Jam)	81	2:38.94*	Mary Decker (USA)	78	7.54	Patty Van Wolvelaere (USA)
34.50	Liz Young (USA)	79	2:25,14*	Diana Richburg (USA)	82	7.59	Esther Rot (Isr) Johanna Klier (DDR)
			2:25.74*	Debbie Heald (USA)	79	7.63	Tatiana Anisimova (SU)
	S (*=Hand tlme +0.24)		2:25.94*	Wendy Knudson (USA) Jo White (GB)	79 82	1.00	
35.83	Merlene Ottey (Jam)	81	2:26.70	Joetta Clark (USA)	82		
36.14* 36.34*	Jarmila Kratochvilova (Cze) Tatyana Kocembova (Cze)	81 83	- 2:26.94*	Francie Larrieu (USA)	75		
36.91	Angella Taylor (Can)	80	2:27.34*	Marcia Romesser (USA)	79		
37.46	Sharon Colyear (GB)	81	2:27.34*	Robin Campbell (USA)	81	60m HURD	LES
37.50	Diane Dixon (USA)	83	2:27.71	Tina Krebs (Den)	83	7,75	Bettine Jahn (DDR)
37.54	Janet Dodson (YSA)	82	1000 METE	RS (*=Hand time +0,14)		7.77	Zofia Bielczyk (Pol)
37.55	Evealene Hatcher (USA)	82	2:34.94*	Brigitte Kraus (FRG)	78	7,84	Grazyna Rabsztyn (Pol) Annelje Ehrhardt (DDR)
37.64*	Rita Wilden (FRG) Natalla Borschina (SU)	75 81	2:34.94	Lyubov Gurina (SU)	83	7.94	Johanna Klier (DDR)
37.94	Norma Murray (Jam)	81	2:37,68	Svyetlana Popova (SU)	83	7.95	Danuta Perka (Pol)
			2:37,91	Ravila Agletdinova (SU)	83	7,96	Kerstin Knabe (DDR)
400 METER			. 2:38,03	Yekaterina Podkopaeva (SU)	83	. 7.97	Svyetlana Gusarova (SU)
49.59	Jarmila Kratochvilova (Cze)	82	2:38.06	Lyudmila Borisova (SU)	83	8.00	Bozena Swierczynska (Pol)
50.43	Tatyana Kocembova (Cze)	83	- 2:38,95 2:39,63	Natalia Artyemova (SU) Svyetlana Kitova (SU)	83 83	· 8.00	Vyera Komisova (SU)
51,14 51,18	Marita Koch (DDR) Dagmar Rubsam (DDR)	77 82	2:39.03	Lyudmila Veselkova (SU)	81		
51.57	Gaby Bussmann (FRG)	82	2:39,76	Olga Dvirna (SU)	83		Continued on Page

Continued on Page 10

82

79

81

78

WORLD ALL-TIME SHOT/DISCUS BESTS

(Compiled by Joan Stratton)

Listed below are the top shot/discus athletes with their performances and their point score from the IAAF International Scoring Table. Not surprising, the Eastern Europe bloc of nations grabs 15 of the 27 places including the first 11. Meg Ritchie, (Great Britain and the University of Arizona) is the top non-Eastern bloc athlete in 12th position. Americans do better than the public would expect with Lorna Griffin, Carol Cady and Leslie Deniz sitting in 19-20-21 positions. Denise Wood, Kathy Picknell and Lynn Winbingler also make the list.

Name/Country 1-Margitta Pufe (DDR) 2-Ilona Slupianek (DDR) 3-Zdenka Silhava (Cze) 4-Falna Myelnik (SU) 5-Tatyana Lisovskaya (SU) 6-Ines Muller (DDR) 7-Natalya Akhrimyenko (SU) 8-Innes Reichenboch (DDR) 9-Brigette Michel (DDR) 10-Zdena Bartonova (Cze) 11-Svetlana Myenckova (SU) 12-Meg Ritchie (GB) 13-Rodostina Bakhchevanova(Bul) 14-Ria Stalman (Hol) 15-Gael Mulhali (Aus) 16-Heidi Krieger (DDR) 17-Svetla Mitkova (Bul) 18-Vanessa Head (GB) 19-LORNA GRIFFIN (USA) 20-CAROL CADY (USA)	Shot 70' 9¾ (78) 73' 84 (80) 69' 0¼ (83) 65' 8½ (76) 68' 5 (83) 67' 4¾ (83) 67' 0¾ (80) 68' 10¾ (80) 63' 8¼ (79) 65' 7½ (80) 63' 8¼ (79) 63' 8¼ (83) 63' 2 (79) 57'11¼ (83) 61' 11¾ (??) 57' 1 (83) 60' 4¾ (??) 58' 5¼ (83) 56' 6¾ (83) 56' 6¾ (83)	Discus 225' 4 (80) 211' 3 (77) 229' 4 (83) 231' 3 (76) 210' 4 (83) 211' 1 (80) 203' 5 (79) 221' 1 (79) 221' 7 (80) 216' 9 (79) 221' 5 (81) 211'10 (76) 220' 6 (83) 206'11 (79) 201' 8 (83) 205' 4 (83) 205' 4 (83) 205' 4 (83) 207' 5 (83) 207' 5 (83)	Points 2403 2383 2371 2354 2300 2294 2283 2282 2271 2267 2239 2236 2193 2193 2174 2174 2174 2174 2174 2146 2146 2113
18-Vanessa Head (GB)	60' 43/4 (??)	205' 4 (83)	2168
19-LORNA GRIFFIN (USA)	58' 51/4 (83)	207' 5 (83)	2146
20-CAROL CADY (USA)	56' 63/4 (83)	207' 8 (83)	2117
21-LESLIE DENIZ (USA)	$55'10^{1/2}$ (83)	213' 1 (83)	2113
22-Florentina Crociunescu (Rum)	$51'10^{1/2}$ (83)	222' 3 (83)	2103
23-Carmen Ionescu (Can)	$54' 3^{1/4}$ (82)	212' 6 (76)	2101
24-DENISE WOOD (USA)	$56' 8^{1/2}$ (83)	189' 4 (83)	2038
25-Mariette Van Heerden (RSA)	$56' 4^{3/4}$ (81)	186' 6 (81)	2021
26-KATHY PICKNELL (USA)	$52' 2^{3/4}$ (82)	190'10 (83)	1973
27-LYNN WINBIGLER (USA)	$51' 5^{1/2}$ (77)	189' 6 (79)	1955



Best All-Time shot/discus thrower is East Germany's Margitta Droese-Pufe. Margitta has a best of 70'9% in the shot and 225'4 with the disc to score 2403 points on the international scoring table.

WORLD ALL-TIME INDOOR TOP TEN (Cont)

NCAA OUTDOOR STANDARDS

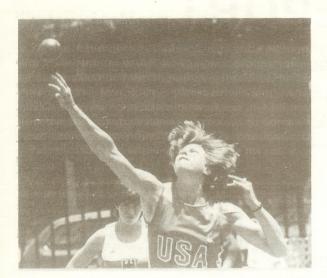
Qualifying standards for the 1984 NCAA Outdoor Track Championships are listed below.

Standards MUST be competed in meters, except for the 400m and 1600m relays which may be competed in yards. All field event performances MUST be measured, recorded and entered in feet and inches.

A wind-gauge reading is required for all manual-time entries in the 100 and 200 meter dashes and the 100m hurdles. The wind reading must be recorded on the entry form and must not exceed 4.473 miles per hour to be acceptable.

	Divisio	on I	Divisio	on II	Divisio	on III
	FAT	MT	FAT	MT	FAT	MT
100m	11.64	11.4	12.02	11.7	12.54	12.4
200m	23.78	25.5	24.50	24.2	25.74	25.5
400m	53.74	53.5	56.40	56.1	58,64	58,4
800m	2:08.00	2:07.8	2:13.60	2:13.4	2:17.64	2:17.4
1500m	4:22.75	4:22.5	4:37.40	4:37.2	4:44,50	4:44.3
3000m	9:31.24	9:31.0	10:11.00	10:10.8	10:19.74	10:19.5
5000m	16:31.24	16:31.0	17:35.50	17:35.3	18:00.20	18:00,0
10k	34:40.24	34:40.0	37:30.00	37:29.8	38:05,20	38:05.0
100H	13.85	13.6	14.52	14.2	15.64	15.4
400H	59.40	59.2	63.00	62.7	65.34	65.1
4x100m	45.75	45.5	47.78	47.4	50.24	50.0
4x100v*		45.7	47.98	47.6	50.44	50.2
4x400m	3:41.74	3:41.5	3:53.50	3:52.3	4:01.20	4:01.0
4x440y	3:41.94	3:42.7	3:54.70	3:53,5	4:02.40	4:02.2
HJ	5'111/4		5'71/4		5'5	
LJ	20'4		18'111/2		17'9	
TJ	40'0		35'0		33'2	
SP	50'0		43'6		40'2	
DT	166'7		140'0		129'8	
JT	162'0		136'2		131'7	
Hept	5340	5400	4850	4910	4240	4300

HIGH JUMP		
6'8	Tamara Bykova (SU)	83
6'63/4	Coleen Sommer (USA)	82
6'61/4	Debbie Brill (Can)	82
6'61/4	Andrea Bienias (DDR)	82
6'6 ¹ /4	Ulrike Meyfarth (FRG)	82
6'6 ¹ /4	Katalin Sterk (Hun)	82
6'6	Andrea Matay (Hun)	79
6'6	Louise Ritter (USA)	83
6'51/2	Sara Simeoni (Ita)	81
6'51/2	Shanna Nyekrassova (SU)	82
LONG JUMP	,	
22'91/4	Anisoara Cusmir (Rom)	83
22'81/2	Valeria Ionescu (Rom)	83
22'7	Heike Daute (DDR)	83
22'5	Svyetlana Zorina (SU)	82
22'21/2	Karin Hanel (FRG)	81
22'21/2	Magarite Butkiene (SU)	82
22'21/2	Eva Murkova (Cze)	83
22'21/4	Angela Voigt (DDR)	76
22'11/2	Anna Wrodarczyk (Pol)	80
22'11/2	Christina Sussiek (FRG)	81
SHOT PUT		
73'10	Helena Fibingerova (Cze)	77
70'10	llona Slupianek (DDR)	79
69' 8	Margitta Pufe (DDR)	78
69' 1 ¹ / ₄	Eva Wilms (FRG)	77
68' 21/4	Ivanka Christova (Bul)	76
68' 2 ¹ / ₄	Helma Knorscheidt (DDR)	81
68' 01/2	Verzhina Veselinova (Bul)	82
67'11	Liane Schmuhl (DDR)	82
67'11	Natalya Lisovskaya (SU)	83
67'8	Nadyezhda Chizhova (SU)	74



Surprize, surprize! The United States has the three top heptathlon throwers in the world led by JANE FREDERICK. Frederick's marks of 53'1 (shot) and 169'4 (javelin) make her best in the world. Heptathlon world record holder, Ramona Neubert of East Germany, is fifth. (Bill Leung Jr, photo).

ALL AROUND SPRINTER UPDATE

Calvin Brown sends along three more sprinters to add to the 1983 All-Around Sprinter List for combined 100-200-400 times. Here's the latest update:

NAME	100	200	400	TOTAL
1-Marita Payne	11.43	22.62	50.06	84.11
2-C.Cheeseborough	11.23	21.99	51.00	84.22
3-Florence Griffith	11.06	22.23	50.94	84.23
4-Merlene Ottey	11.07	22.14	51.12	84.33
5-Evelyn Ashford	10.79	21.88	52.10	84.77
6-Grace Jackson	11.27	22,36	51.69	85.32
7-Denean Howard	11.87	23.54	50.99	86.40
8-Diane Dixon	11.65	23.49	51.61	86.75
9-Jackle Pusey	11.44	23.14	53,28	87.86
10-Valerie Briscoe	11.39	23.10	53.61	88.10
11-Gervaise McCraw	11.59	23,33	53.74	88.66
12-LaShon Nedd	11.35	22.89	54.71	88,95

WORLD BEST HEPTATHLON THROWERS

(Complied by Joan Stratton)

Here's a surprising statistical listing of the best shot/javelin throwers in the world who compete in heptathlons. The surprise is that of the 24 listed , 11 of them are from the USA including the first three positions! Only five Russians make the list and only three from East Germany. Soooooo, if the USA is so good in the two weight events of the heptathlon, (events in which everyone believes we are quite weak), how come we don't beat those 'furriners' in the heptathlon? Part of our success in this ranking list is due to the fact the USA is more of a "throwing" nation than the Europeans and the javelin comes as a more natural event. We throw baseballs, softballs, basketballs, frisbees et al from the time we can barely perambulate and therefore manage high points in the javelin event while sinking as low as under 39 feet in the shot. World-record holder Ramona Neubert of the DDR ranks fifth in this list prepared by Joan Stratton while Jane Frederick has the best in the world!

Name/Country	Shot	Javelin	Points
1-Jane Frederick (USA)	53' 1 (78)	169' 4 (??)	1896
2-Susie Ray (USA)	49' 3 (81)	179' 8 (82)	
3-Julie Jones (USA)	50'111/2 (82)	169' 4 (83)	1860
4-Mila Kolyadina (SU)	53' 5 (83)	158' 4 (83)	1855
5-Ramona Neubert (DDR)	50' 51/2 (??)	163'10 (83)	1829
6-Margarite Dimitrova (Bul)	53'113/4 (83)	146' 4 (83)	1811
7-Marilyn Senz (USA)	47' 63/4 (??)	166' 2 (83)	1790
8-Deanna Carr (USA)	41' 01/2 (82)	191' 2 (83)	1775
9-Yekaterina Smirnova (SU)	49'101/2 (83)	150' 1 (83)	1759
10-Sabine Paetez (DDR)	49"101/2 (83)	146' 1 (??)	
11-Valentina Korachkina (SU)	47' 3 (83)	149'11 (83)	1714
12-Janette Poitier (USA)	45' 33/4 (83)	150' 9 (83)	1683
13-Malgorzata (Pol)	46'111/2 (??)	143' 6 (??)	1681
14-Sonia Smith (Ber)	39'10¾ (83)	171'10 (81)	1676
15-Julie Ravary (USA)	41' 6 (??)	161'10 (83)	1661
16-Melitta Algner (Aut)	46' 41/4 (83)	140' 8 (83)	1657
17-Helga Nusko (FRG)	44' 51/4 (83)	147' 8 (83)	1655
18-Patsy Walker (USA)	46' 71/2 (??)	138' 9 (83)	1645
19-Tonya Alston (USA)	45' 73/4 (81)	138' 5 (83)	1635
20-Natalya Shubenkova (SU)	45' 33/4 (83)	138' 6 (82)	1628
21-Nadyezhda Vinogradova (SU)	47' 21/4 (83)	130' 9 (??)	1624
22-Jackie Joyner (USA)	41' 83/4 (83)	147' 4 (83)	1604
23-Carla Battaglia (USA)	38'101/4 (83)	158' 9 (83)	1600
24-Anke Vater (DDR)	47' 61/4 (83)	124' 2 (83)	1600
			1000

USA	A ALL-TIME INDOOR TOP TEN (Continued)	60m HUR	DLES (*=Hand time +0.24)		21' 0	Pat Johnson	81
			8.02	Stephanie Hightower	83	20'113/4	Donna Thomas	83
			8.18	Candy Young	81	20'11	Kathy Rankins	83
			8.18	Benita Fitzgerald	83	20'103/4	Evalene Hatcher	82
	HURDLES (=Hand time +0.24)		8.25	Deby LaPlante	78	20' 8	Willye White	72
6.85		83	8.25	Karen Wechsler	81	20 0	iningo ininto	
6.93		83	8.30	Kim Turner	80	SHOT PUT		
6.98		80			81	61' 21/4	Maren Seidler	78
7.01	Linda Bourne	79	8.34	Lori Dinello				83
7.03	B Deby LaPlante	79	8.37	Jackie Washington	81	55'101/2	Leslie Deniz	
7.03		83	8.45	Kim Willis	79	55' 71/4	Denise Wood	83
7.04		83	8.46	Gayle Watkins	81	54' 71/2	Carol Cady	83
7.11		77				54' 61/2	Elaine Sobansky	83
7.14		83	HIGHJUN			53' 6 ^{1/2}	Regina Cavanaugh	83
7.18		83	6'63/4	Coleen Sommer	82	53' 53/4	Lorna Griffin	80
/.10	Elinan cole	05	6'6	Louise Ritter	83	55' 53/4	Ann Turbyne	80
			6'43/4	Joni Huntley	81	53' 51/2	Sandy Burke	82
			6'3	Sharon Burrill	80	53' 1	Nini Davis	83
			6'2	Paula Givens	80			
			6'11/4	Sally McCarthy	80			
60v	HURDLES (*=Hand time +0.24)		6'1	Yolanda Gibson	81			
7.36		83	6'1	Sharri Collins	83		int	
7.37		82	6'01/2	Cindy Greiner	83			
7.47		83	6'0	Twelve individuals	00			
7.51		79	00	Twelve manyadans				
7.52		83	LONG JU	MD				
		77	21' 71/4	Carol Lewis	81			
7.54				Martha Watson	73			
7.54		78						
7.64		82	21' 43/4	Kathy McMillan	76			
7.64		83	21' 23/4	Jodi Anderson	79			
7,68	B Maureen McGee	82	21' 21/2	Angela Thacker	83		-	

HIGH SCHOOL REPORT by Rich Ede

We're in that transition between cross country and indoor track, with some warmweather state outdoor marks thrown in.

CROSS COUNTRY

TEXAS REGIONALS

AAAAA-I, 1-Brenda Moore (Amarillo) 11:13, 2-Claudina Navarro (Jefferson) 11:34, 3-Donna Laverty (Andress) 11:41, 4-Celina Terrazos (Coronado/El Paso) 11:43, 5-Margie Bernai

(Coronado/E) Paso) 11:43, 5-Margie Bernar (Socorro) 11:47, Arnie Boyd (Berkner) 11:35, 2-Carol Boyd (Berkner) 11:47, 3-Mary Johnson (Trinity) 11:54, 4-Crystal McGuire (High-land Park) 11:54, 5-Wendi Smith (Westwood) 11:56.

AAAAA-III, 1-Armanda Buffalo (Pasadena)

12:04. AAAAA-IV, 1-Kathy Smith (Churchill/San ABAAAA-IV, 1-Bebbie Divine (Memorial/ Antonio) 11:09, 2-Debbie Divine (Memorlal/ McAllen) 11:44, 3-Sara Tamayo (McAllen) 11:56, 4-Perez (Edinburg) 11:56, 5-Norma Salazar (Edinburg) 11:57.

AAAA-I, Rachelle Mullanax (Sweetwater) 11:58.

AAAA-II, 1-Kim Ahrens (Midway) 12:12. AAAA-III, 1-Shella Quigley (Westlake/Aus-tin) 11:15, 2-Karen Kunze (A&M Consolo-dated) 11:30, 3-Jeanette Reed (A&M) 11:40,

A-Suzanne Wolfenden (A&M) 11:53, 5-Ellen Sterling (A&M) 12:06. AAAA-IV, 1-Kim Whitaker (New Braun-fels) 11:04, 2-Bridgette Wilson (Flour Bluff) 11:26, 3-Elizabeth Wohltman (FB) 11:42, 4-Varutery Kebler (ND) 11:55 Kourtney Kahler (NB) 11:55.

AAA-I, 1-Darla Graham (Iraan) 12:27. AAA-II, 1-Jody Dunston (Blooming Grove) 11:21, 2-Karol Kubicek (Cellna) 11:50, 3-Julie Kilburn (Pittsburg) 11:56.

AAA-III, 1-Demeta Bailey (Fairfield) 13:01. AAA-IV, 1-Irma Pena (Odem) 11:50.

TEXAS STATE CHAMPIONSHIP

Georgetown, Texas, Nov. 12: Undefeated defending champ Kathy Smith (Churchill/San Antonio) led Brenda Moore (Amarillo), also undefeated this year, through all but the last 100 yards of this two miler, but Moore kicked to a two second victory in the 5A race. Kim Whitaker (New Braunfels) claimed the fastest time of the day in the 4A race as she ran away from three-time defending champion Sheila Quigley (Westlake/Austin). Quigley held the lead for the first mile but it was all over after that as Whitaker won by 45 seconds in 10:56.

5A, 1-Brenda Moore (Amarillo) 11:10. 2-Kathy Smith (Churchill/San Antonio) 11:12, 3-Kathy Smith (Churchill/San Antonio) 11:12, 3-Claire Hardy (Midland) 11:35, 4-Amanda Buffalo (Pasadena) 11:39, 5-Celina Terrazas (Coronado/El Paso) 11:42, 6-Margie Bernal (Socorro) 11:44, 7-Debbie Devine (Memorial/ McAllen) 11:49, 8-Crystal McGuire (Highland Park) 11:51, 9-Wendi Pena (Elsik) 11:52, 10-Donna Laverty (Andress/EP) 11:53. Team, 1-Cleart Lake (Leavue City) 71, 2-Burges (El Paso) Clear Lake (League City) 71, 2-Burges (El Paso) 89, 3-Coronado (El Paso) 89. 4A, 1-Kim Whitaker (New Braunfels) 10:56,

2-Shelia Quigley (Westlake/Austin) 11:41, 3-Bridgette Wilson (Flour Bluff) 11:49, Team, 1-A&M Consolidated 44, 2-Flour Bluff (Corpus Christi) 60, 3-Fredericksburg 90.

3A, 1-Jody Dunston (Blooming Grove) 11:47, 2-Darla Graham (Iraan) 12:13,. Team, 1-Nazareth 27, 2-Yoakum 67, 3-Medina Valley (Castroville) 91.

TEXAS CHRISTIAN INTERSCHOLASTIC LEAGUE

Dallas, Texas, Nov. 12: Texas holds three separate State meets in addition to the public school divisions. Linda Prado (Mt. Carmel/ Houston) claimed the TCIL title in 13:30 as Incarnate Word (Corpus Christi) took team honors.

1-Linda Prado (Mt. Carmel/Houston) 13:30, 2-Jori McLaughlin (Bishop Lynch/Dallas) 3-Sandra Bratsch (Kelley/Beaumont) 13:52, 4-Mary Coyle (Bishop Lynch) 13:58, 5-Amy Viola (Incarnate Word/CC) 14:02.

SOUTHWEST PREPARATORY CONFERENCE

Dallas, Texas, Nov. 12: St. Johns (Houston), led by Laura Wilson's 11:56 win edged Cassady (Oklahoma City) for the SPC title, a third unofficial title in Texas.

1-Laura Wilson (St Johns/Houston) 11:56, 2-Robin Woolfolk (Kincald/Houston) 12:47, 3-Shona Simpson (Hockaday) 12:48, 4-Kristen Davis (Casady/Oklahoma City) 13:04, 5-Nicole Payseur (Greenhill) 13:11, Team, 1-St Johns (Houston) 60, 2-Casady (Oklahoma City) 68, 3-Holland Hall (Tulsa) 104.

NEW JERSEY ALL GROUP MEET

Holmdel, NJ, Nov. 19: Janet Smith (North Edison) capped an excellent high school season with her third State title. She won by over a minute in 17:35.5. Frosh Missy Duchini (Wayne Valley) and Jeanne LaPlaca (N.Hunterdon) engaged in a battle for second with Duchini edging LaPlaca 18:38 to 18:45. Next year's race should be interesting as fourth placer Toni Ann Angione (Bergenfield) is only a junior. The team battle wasn't much of a contest as North Hunterdon easily took the title with 37 points. Bernards was second with 88, less than alf the total of third place Wayne Valley.

1-Janet Smith (N.Edison) 17:35.5, 2-Missy Duchini (Wayne Valley - frosh) 18:38, 3-Jeanne LaPlaca (N.Hunterdon - frosh) 18:45, 4-Ton| Angione (Bergenfield) 18:46, 5-Stacy Bilotta (N.Hunterdon) 18:50, 6-Lisa Herman (WV) 18:54, 7-Lori Watson (Cherry Hill East) 18:57, 8-Kathy Millton (N.Edison) 19:04, 9-Sheila O'Brien (S.Brunswick) 19:08, 10-Tracey Bigley (NH) 19:10,

KINNEY SOUTHERN REGIONAL

Raleigh, NC, Nov. 25: Despite the added distance from their state two miles to the Kinney 5000 meters, Texas contributed four of the eight qualifiers and claimed the team title 33-39 over Virginia. Kathy Smith (Churchill/San Antonio) avenged her State Meet loss to Brenda Moore (Amarillo) with a clear 32 second win over Demarche Robertson of JHW/Richmond, Va., relegating Moore to third.

Club runners Stacy Zartler and Donna Combs, (running for the Metroplex Striders instead of their schools due to Texas' rules), claimed the other two Texas spots.

1-Kathy Smith (Tx) 16:56, 2-Demarche Robertson (Va) 17:28, 3-Brenda Moore (Tx) 17:32, 4-Veronica Verinder (Va) 17:35, 5-Alena Palmquist (Ga) 17:43, 6-Stacy Zartier (Tx) 17:45, 7-Donna Combs (Tx) 17:46, 8-Juanita Wilson (Tx) 17:56, 9-Mindy Lukens (Ga) 18:05, 10-Erin Keogh (Va) 18:06

KINNEY NORTHEAST REGIONALS

Van Cortland Park, NY, Nov. 26: New Jersey's Janet Smith dominated here as she has all along in the East this year, winning by 31 seconds over junior Kathy Schiro (Dover, NH). Frosh Missy Duchini (Wayne Valley, NJ) duplicated her win over Stacy Bilotta (N. Hunterdon, NJ) for third and the New Jersey quintet easily claimed team honors.

1-Janet Smlth (NJ) 17:08, 2-Kathy Schiro (NH) 17:39, 3-Missy Duchini (NJ) 18:11, 4-Stacy Bilotta (NJ) 18:17, 5-Harbaugh (Pa) 18:21, 6-Bowers (Pa) 18:24, 7-Thompson (Ct) 18:30, 8-Kim Ryan (NY) 18:30, 9-Carol Parjetti (NY) 18:37, 10-Ejtepence (Vt) 18:38.

KINNEY NATIONALS

San Diego, California, Dec. 10: Janet Smith simply ran away with the Kinney Nationals after two successive second place finishes. The Northeast came cross-country with a vengence, placing five in the top twelve to easily capture team honors

Kathleen Smith (Texas) led early but Janet Smith took over at the mile mark and never looked back. Melissa Straza (Illinois) claimed second ahead of Kathy Schiro (NH) as Kathleen Smith faded to fourth.

1-Janet Smith (NJ) 16:43.7, 2-Melissa Straza (III) 17:16.5, 3-Kathy Schiro (NH) 17:25.4, 4-Kathleen Smith (Tx) 17:34.1, 5-Kirsten O'Hara (Cal) 17:38.7, 6-Thompson (Ct) 17:45.9, 7-Demarche Robertson (Va) 17:46.1, 8-Harbaugh (Pa) 17:46.5, 9-Brenda Moore (Tx) 17:47.5, 10-Driscoll (III) 17:48.0.

HIGH SCHOOL REPORT (Cont)

TRACK RESULTS

GEORGE MASON PINNACLE TRACK INVITATIONAL

Fairfax, Virginia, Dec. 14/15: The George Mason University Invitational was so big it took two days and numerous sections to get everything completed. Unfortunately, the format prevented some excellent matchups between athletes who turned in marks on different days.

Robin Benjamin (Central/Mt. Pleasant, Md) and the Langley (Va) distance crew provided the highlights on Wednesday. Benjamin led off with the fastest 300 of the evening (41.3) and the second-fastest 55m (7.2 to Clark of Oxon Hill in 7.1) and contributed a leg on the 4:05.0 4x400 relay. Langley served notice of an outstanding DM relay this year as they claimed the 100 (Pederson in 2:58.7), the 1600 (Verinder in 5:09.6) and the 3200 (Clarke in 11:28.).

Thursday saw Dawn Sowell (JHW/Richmond, Va) and Tolbert (Ballou) in the spotlight. Sowell eclipsed Benjamin's mark in the 300 with a 39.8 and equalled her 55m mark of 7.2. Tolbert clocked a good 41.9 and claimed the hurdles in 8.5.

55m (14th), 1-Clark (Va) 7.1, 2-Robin Ben-jamin (Md) 7.2; (15th) Dawn Sowell (Va) 7.2, 2-Williams (Va) 7.2; 300m (14th) 1-Robin Ben-jamin (Md) 41.3, 2-Moore (Va) 41.7; (15th) 1-Dawn Sowell (Va) 39.8, 2-Tolbert (Va) 41.9.

500m (14th), 1-Deskins (Va) 1:20.9; (15th) 1-Birge (Va) 1:16.9, 2-Pugh (Va) 1:18.9, 3-Badden (Va) 1:19.6; 1000m (14th), 1-Pederson

Badden (Va) 1:19.6; 1000m (14th), 1-Pederson (Va) 2:58.7; (15th) Welsh (Va) 3:04.2. 1600 (14th), Verinder (Va) 5:09.6; (15th) Robertson (Va) 5:00.7, 2-Welch (Va) 5:04.0; 3200 (14th), Clarke (Va) 11:28.3; (15th), 1-Douglas (Va) 11:11.9, 2-Cassell (Va) 11:18.5. 4x400 (14th), 1-Central (Seat Pleasant, Md) 4:05.0, 2-Padua (Del) 4:05.5, 3-Suitland (Md) 4:05.7; (15th) JHW (Richmond, Va) 4:05.0; 4x800 (14th) Crossland 10:06.9; (15th) 1-Stopewall Jackson 10:19.2, 2-1 ake Braddock Stonewall Jackson 10:19.2, 2-Lake Braddock (Va) 10:19.7. 55mH (14th) Elzey (Md) 8.5; (15th) Tol-

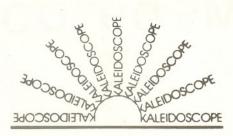
bert (Va) 8.5; HJ (14th) Svenson (Va) 5'2; (15th) Mann (Va) 5'5.

SP (14th) Gleaves (Va) 40'1; (15th) Rogozinski (Va) 38'10; LJ (14th) Capalaces (Va) 15'10; (15th) Hicks (Va) 17'10, 2-Woodson (Va) 17'0.

MT. SAC ALL COMERS

Walnut, California, Dec. 31: Locke (Los Angeles) showed excellent early season speed behind Chewaukii Knighton's 53.9 leg for a 3:57.7 1600m relay clocking. Knighton also had a 55.7 in the open 400 and 12.1 behind teammate Giddens' 11.8 in the 100.

100, 1-Giddens (Locke) 11.8, 2-Knighton (Locke) 12.1; 200, 1-Kerry Zaleski (Millikan/ Long Beach) 25.3w, 2-Grant 25.4w; 400, 1-Knighton 55.7, 2-Zaleski 56.8; 800, Willis (Hawthorne) 2:26.0; 4x100, Hawthorne 48.6; 4x400, Locke 3:57.7 (Knighton 53.9).



One of the most interesting rules to come out of the latest IAAF Meeting in the Philippines states, "The shoes of all athletes competing in the 1984 Olympic Games in Los Angeles will be controlled. Each athlete will declare, prior to competing, the brand of shoe to be worn in the Games, after which no change will be permitted." How about those high jumpers who use a different brand on each foot?.....At the IAAF 10k World Championship in San Diego, athletes were not allowed to be served tea or coffee at the Hotel. In last month's issue. WTFW stated Boston College was THE power in New England as they won the New England Championships in both varsity and junior varsity divisions. Not so says Holy Cross. The Crusaders were at the NCAA Division II Regionals that day (winning it) and sent their JV team to the New England meet where they finished seventh. Holy Cross trounced BC earlier in the year.

Welcome to the Rat Race for Lisa Marie Sandoval. The first offspring of coach Tony Sandoval, California's fine director....Interesting observation about Villanova University: The Wildcats have 26 athletes on their 1984 roster including one high jumper, one weight person and one hurdler. All the rest run nothing shorter than the 400 and most are listed in distances longer than that Austria's 1984 marathon champ is Monika Frisch. She's 12....The 1984 TAC Cross Country Championships are set for Georgetown, Texas, (near Austin). The 1985 TAC Outdoor Championships will be in San Jose - show me the way.

LATE NEWS

VIRGINIA TECH HS INDOOR INVITATIONAL

Blacksburg, Virginia, Jan. 7: Karen Wierwille of Blacksburg High was a double winner in the 3000 and 1500 to grab top honors at the Virginia Tech High School Invitational.

SP, Theresa Burris (Tennessee HS) 36'7^{1/2}; 400, Deborah Day (Armstrong Kennedy) 61.5; 1500/3000, Karen Wierwille (Blacksburg) 4:46.5/10:27.6. 300, 1-Julie Johnson (Memorial Day) 41.1,

2-LaVonna Martin (NWTC) 41.1; LJ, Laura Kirkham (Un) 17'8¾; 55mH, LaVonna Martin (NWTC) 8.28.

55m, 1-Julie Sandy (Salem) 7.35, 2-Wanda Brown (Patrick Henry) 7.35; HJ, Ginny Hanlon (Sherwood) 5'2; 4x400, Armstrong Kennedy (Day-Jasey-Jacobs-Hubbard) 4:16.1.

MT. SAC ALL COMERS

Walnut, California, Jan. 7: Not much to write home about at the weekly Mt. San Antonio

College All Comers affair. Prepster Choo Choo Knighton scurried around the oval in 55.7 for perhaps the best performance. Debby (LaPlante) Smith won the open 100, but Locke High's Tisha Giddens won the high school section four-tenths quicker.

100, Debbie Smith (CA) 12.1; HS 100,1-Tisha Giddens (Locke) 12.1; HS 100,1-Tisha Giddens (Locke) 11.7, 2-Choo Choo Knighton (Locke) 12.04, 3-Kim Grant (Haw-thorne) 12.05; 200, 1-Karen Cannon (CA) 25.2, 2-Kerry Zaleski (CA) 25.2, 400, Kerry Zaleski (CA) 56.3; HS 400, Choo Choo Knighton (Locke) 55.7; 800, Macadith Scribb (LOA) 22220, 1500

Meredith Smith (LAM) 2:22.9; 1500, Laura McCrocker (Un) 4:36.0. 100H, 1-Shann Kery (SCC) 15;5, 2-Tsai Li-Jin (Mt.SAC) 15.7; 4×400, Mt. SAC 3:59.0; HS 4×400, Locke 3:58.9

RITTER 6'5 AT OTTOWA

Ottowa, Canada, Jan. 13: Louise Ritter began her 1984 season where she left off outdoors in 1983 - winning at Ottowa with a good mark of 6'5

800, 1-Finch (GB) 2:05.3, 2-Colebrook (GB) 2:06.2, 3-Diane Richburg (USA) 2:06.7, 4-Cynthia Warner (USA) 2:09.7, 5-Debbie Roberson (USA) 2:12.1, Robin Campbell (USA) was disqualified.

1500, 1-Whiteside (Can) 4:29.9, 2-Linda Detlefsen (USA) 4:33,3, 3-Claudette Groen-daal (USA) 4:34.3; HJ, Louise Ritter (USA) 6'5.

REEL OFF ADDENDA

Here's something to think about. In a letter to the editor of the Canadian publication "Athletics", the following was seen:

"Money in sports is effective only in combination with discipline, enthusiasm, personal and national pride, willingness and ability to work hard. Our athletes should put more emphasis on technique, we need much more media coverage but by knowledgeable people only and without the Yankee-style (that's us) nonsensical glorification of staged performances and heroes. That leads to showmanship, unreal expectations, and when the chips are really down many athletes break to pieces. That happened to American throwers, vaulters and steeplechasers, some of our sprinters and Evelyn Ashford of the 10.79 altitude glory, while many European "unknowns" collected medals with personal bests. Small wonder the Finns and others have national pride. Our system is based on imports, hired hands, dubious priorities and a money-hungry bureaucratic jungle."

How about THAT!

USA ALL-TIME OUTDOOR TOP 50

Please cent	additions and/or correcti	lone to .	23.38	Sandra Howard	77	2:03.54	Lee Ann Van Landingham	82
	Box 850, Cedar Glen, Ca		23.39	Angel Doyle	80	2:03.84*	Debble Vetter	77
	Den ever order erent ou	ononat .	23.39	Donna Dennis	82	2:03.84*	Darlene Beckford	82
100 METER	RS		23.40	Janet Davis	82	2:03.84	Robin Bell	83
10.79	Evelyn Ashford	83	23.40	Lorl Smith	83	2:04.04*	Charlotte Cooke	66
10.94	Diane Williams	83	23.41	Freida Cobbs	79	2:04.20	Cindy Bremser	83
11.06	Florence Griffith	83	23.41	Karen Hawkins	82	2:04.24*	Sue Vigil	79
11.08	Wyomia Tyus	68	23.42	Gwen Loud	79	2:04.38	Regina Jacobs	82
11.08	Brenda Morehead	76	23.44	Easter Gabriel	82	2:04.51	Robbin Coleman	82
11.08	Alice Brown	83	23.44	Leslie Maxie	83	2:05.54*	Terry Crawford	72
11.11	Barbara Ferrell	68	23.48	Novaita Samuels	83	2:04.54*	Kathy Hall	75
11.11	Jackie Washington	83	(49)			2:04.54*	Liane Swegle	76
11.13	Chandra Cheeseborough	76				2:04.54*	Ann Regan	77
11.16	Jeanette Bolden	81	400 METER	RS (*=Hand time +0.14)		2:04.60	Jacqui Sedwick	83
11.17	Wendy Vereen	83	50.62	Rosalyn Bryant	76	2:04.64*	Jarvis Scott	68 69
11.24	Gwen Loud	83 -	50.87	Denean Howard	82	2:04.64*	Nancy Shafer	70
11.27	Iris Davis	72	50.90	Shella Ingram	76	2:04.74*	Francie Kraker	78
11.28	Randy Givens	83	50.94	Florence Griffith	83	2:04.74*	Marcia Romesser	78
11.29	Margaret Bailes	68	50,99	Easter Gabriel	83	2:04.84*	Karel Jones Deanna Coleman	79
11.30	Dollie Fleetwood	80	51.00	Chandra Cheeseborough	83		Tammy Etienne	82
11.30	Lisa Hopkins	80	51.09	Sherri Howard	79	2:04.85		02
11.30	Brenda Cliette	83	51.11	Patricia Jackson	78	(*	48)	
11.31	Pam Jiles	76	51.23	Debra Sapenter	76			
11.32	Karen Hawkins	79	51.31	Sharon Dabney	78			
11.32	Sheryl Pernell	82	51.45	Ericka Harris	81			
11.33	Kathrene Wallace	82	51.57	Evelyn Ashford	79	1500 METE	ERS (*=Hand time +0.14; @	=Inter-
11.34	Sharon Ware	80	51.59	Gwen Gardner	80	mediate tim		
11.35	LaShon Nedd	83	51.61	Roberta Belle	83	3:57.12	Mary Decker	83
11.36	Benita Fitzgerald	82	51.61	Diane Dixon	83	4:02.61	Jan Merrill	76
11.38	Renaye Bowen	76	51.64	Kathy Hammond	72	4:05.09	Francie Larrieu	79
11.38	Jodi Anderson	80	51.69	Arlise Emerson	83	4:05.76	Cindy Bremser	82
11.39	Valerie Briscoe	83	51.91	Mable Fergerson	72	4:05.88	Leann Warren	82
11.41	Wilma Rudolph	60	51.93	Kelja Bolton	83	4:06.54*	Julie Brown	79
11.42	Michele Glover	81	51.94	Jennie Gorham	79	4:06.83	Cyndy Poor	76
11.43	Rosalyn Bryant	76	52.08	Valerie Briscoe	79	4:09.03	Sue Addison	82
11.43	Lisa Thompson	82	52.14*	Delisa Walton	82	4:10.88	Debble Heald	78
11.43	Angela Thacker	83	52.19	Yolanda Rich	80	4:10.92	Missy Kane	83
11.44	Pam Marshall	82	52.20	Rosalyn Dunlap	82	4:10.99	Joan Hansen	83
11.45	Casandra Graham	82 79	52,29	Robbin Coleman	81	4:11.44*@	Brenda Webb	83
11.46	Val Boyer	82	52.29	LaShon Nedd	82	4:11.84*	Maggle Keyes	82
11.46	Michelle Mathias	64	52.33	Essie Kelly	78	4:11.96	Cathle Twomey	81
11.47	Edith McGuire		52.34	Merry Johnson	82	4:12.76	Francie Kraker	72
11.47	Sheila Calmese	78 83	52.35	Robin Campbell	80	4:12.85	Darlene Beckford	82
11.49	Dawn Sowell		52.41	Alice Jackson	82	4:13.04*	Linda Goen	80
11.50	Martha Watson	73	52.50	Madeline Manning	81	4:13.09	Regina Jacobs	83
11.50	Kim Robinson	77	52.53	Shirley Williams	76	4:13.24*	Debbie Vetter	77
11.50	Sherri Funn	82	52.61	Angela Wright	82	4:14.00	Michelle Bush	82
11.51	Marilyn White	64	52.64	Pam Jiles	77	4:14.04	Madeline Manning	80
11.51	Sandra Howard	77	52.64*	Lisa Garrett	83	4:14.74*	Doris Brown	71
11.51	Stephanle Brown	81	52.64	Gloria Jackson	83	4:14.94	Kathy Hayes	82
11.51	Dana DeVan	81	52.64	Lori McCauley	83	4 1 5 0 4 4	Judy Graham	75
11.51	Jeri Domes	82	52.72	Debra Armstrong	76	4:15.56	Doreen Ennis	77
(48)			52.73	Kim Thomas	78 .		Sue Foster	83
	and the second		52.74	Delphinia Banks	83	4:16.06	Jill Haworth	83
200 METER		70	52.76	Edna Brown	77	4:16.14*	Ruth Caldwell	76
21.83	Evelyn Ashford	79	52.79	Jarvis Scott		4:16.24	Louise Romo	83
21.99	Chandra Cheeseborough	83	52.85	Loretta Edwards	83	4:16.27	Kellle Cathey	82
22.23	Florence Griffith	83	52.87	Lorna Forde	81 -		Lesley Welch	82
22.31	Randy Givens	83	52.90	Marlan Franklin	80	4:16.65	Tara Arnold	83
22.38	Brenda Morehead	81	(45)			4:16.74*	Margaret Groos	81
22.41	Alice Brown	80	(,			4:16.74*	Kim Gallagher	82
22.78	Karen Hawkins	75				4:16.94*	Polly Plumer	82
22.81	Pam Jiles					4:16.77	Linda Detlefson	83
22,86	Brenda Cliette	83 68				4:16.78	Doreen Startare	83
22.87	Barbara Ferrell	83	800 METER	S (*=Hand time +0,14)		- 4:17.03	Sue Frederick	82
22.89	LaShon Nedd Margaret Bailes	68	1:57.60	Mary Decker	83	4:17.05	Mary Rawe	81
22.95		76	1:58,04*	Madeline Manning	76	4:17.09	Suzie Houston	79
22.96	Debra Armstrong Wendy Vereen	83	1:59.00	Robin Campbell	83	4:17.14*@	Jenny Stricker	83
22.99		79	1:59,63	Leann Warren	81	4:17.16	Robin Campbell	83
23.03	Gwen Gardner	83	1:59,91	Wendy Knudson	76 .	4:17,24*	Eleanor Simonsick	83
23.04	Diane Williams	64	2:00.07	Kim Gallagher	82	4:17.34*	Cecl Hopp	82
23.05	Edith McGuire	76	2:00.15	Cyndy Poor	76	4:17.44*	Kate Keyes	75
23.05	Rosalyn Bryant	68	2:00.22	Francie Larrieu	76	4:17.58	Alice Trumbley	80
23.08	Wyomia Tyus	73	2:00.67	Delisa Walton	82	4:17,74*	Lisa Welch	82
23.08	Jackle Thompson	83	2:00.73	Kathy Weston	76	4:17.84*	Lynn Strauss	83
23.10	Valerie Briscoe	80	2:00.82	Diane Richburg	83	4:17.84	Allison Harvey	83
23.13	Lisa Hopkins Fran Sichting	74 +	2:00,94*	Julle Brown	77	4:18.06	Lynn Jennings	77
23.17	Sherri Howard	80	2:01.07	Lee Arbogast	83		50)	
23.19	Michelle Mathias	82	2:01.14*	Essle Kelly	78			
23.21	Benita Fitzgerald	81	2:01.23	Chris Mullen	83			
23.22	Elisa Thompson	82	2:01.32	Joetta Clark	82			
23.23	Yolanda Rich	79	2:01.76	Sue Addison	82			
23.24	Denean Howard	82	2:01.99	Ruth Caldwell	78	ONE MILE	E (*=Hand time +0.14)	
23.25		82	2:02.02	Annette Campbell	83	4:18.08	Mary Decker	80
23.27	Gervalse McCraw	60	2:02.34*	Doris Brown	68	4:27.52	Francie Larrieu	79
23.30	Wilma Rudolph	80	2:02.74*	Louise Romo	83	4:28.23	Jan Merrill	79
23.30	Gwen Smith	82	2:02.75	Cynthia Warner	83	4:29.21	Cindy Bremser	82
23.34	Casandra Graham		2:02.78	Debble Roberson	83	4:30.23	Julie Brown	80
23.34	Pam Marshall	82 83	2:02.94*	Jan Merrill	77	4:30.36	Leann Warren	81
23.34	Angela Thacker	78	2:02.94*	Cheryl Toussaint	75	4:30.88	Brenda Webb	83
23.35	Liz Young	83	2:03.31	Deann Gutowski	82	4:31.02	Debbie Heald	78
23.35	Jackie Washington	80	2:03.45	Patty Bradley	83	4:31.52	Maggie Keyes	82
23.36	Val Boyer							

4:32.07	Cathie Twomey	82	15:33.51	Kathy Hayes	83	100 METER	HURDLES (*=Hand	time +0 24)
4:32.61	Joan Hansen	81	15:33.64	Brenda Webb	83	12.79	Stephanie Hightower	82
	Sue Addison	82	15:35.64*	Kathy Mills	78	12.84	Benita Fitzgerald	83
4:34.11					83			
4:34.32	Jill Haworth	82	15:36.11	Francie Larrieu		12.86	Deby LaPlante	79
4:35.24	Polly Plumer	82	15:37.01	Eryn Forbes	82	12.89	Candy Young	82
4:35.56	Lesley Welch	82	15:37.73	Kathy Bryant	82	12.95	Kim Turner	83
4:36.37	Jenny Stricker	83	15:39.49	Cathie Twomey	81	13.00	Pam Page	83
4:36.44*	Michele Bush	81	15:41.28	Julie Shea	80	13.14	Patty Van Wolvelaere	78
4:36.64*	Ceci Hopp	82	15:41.74*	Peg Neppel	76	13.18	Jackle Washington	81
		82		Joan Benoit	79	13.25	Jane Frederick	78
4:36.75	Linda Goen		15:43.24*					
4:36.94	Kim Gallagher	82	15:43.46	Debble Elde	82	13.29	Lori Dinello	82
4:38.14*	Debra Pavik	80	15:43.54*	Julie Brown	74	13.34	Mamie Rallins	72
4:38.28	Kate Keyes	78	15:45.44*	Cathy Branta	82	13.35	Linda Weekly	80
4:38,38	Sue Girard	82	15:47.84*	Cindy Bremser	79	13.40	Gayle Watkins	82
4:39.14*	Lynn Jennings	78	15:47.84*	Chris Ramirez	79	13.40	Tonja Brown	82
4:39.30	Cindy Wuss	83	15:49.37	Kathie Mintie	81	13.41	Laura Lim	83
4:39.49	Amy Harper	83	15:49.84*	PattiSue Plumer	83	13.43	Karren Cannon	83
		82			81	13.44	Lori Smith	83
4:39.62	Sheila Ralston		15:50.64*	Mary Shea				
4:39.74*	Doris Brown	71	15:50.64*	Amy Harper	83	13.45	Carol Lewis	83
4:39.77	Andrea Marek	82	15:51.64	Margaret Groos	80	13.45	Rhonda Blanford	83
4:39.88	Darlene Beckford	80	15:57.14*	Teri Anderson	77	13.45	Marlene Harmon	83
4:40.64*	Kathy Gibbons	73	15:59.84*	Kellie Cathey	82	13.47	Brenda Calhoun	81
4:40.84*	Eileen Claugus	73	16:00.24*	Carol Urish	82	13.47	Delores Gibbs	83
	Cheri Williams	79	16:00.54*	Sue Kinsey	78	13.48	Patricia Davis	83
4:41.54*					82			
4:41,44*	Judy Graham	77	16:01.88	Marty Cooksey		13.50	Sonja Hardy	76
4:41.44	Mary Rawe	80	16:02.16	Judi St. Hilaire	83	13.50	Mary Smith	78
4:41.74*	Teri Anderson	72	16:02.34*	Ellison Goodall	78	13.52	Pat Donnelly	76
4:41.94*	Vicki Cook	81	16:02.74*	Joan Hansen	82	13.53	Rhonda Brady	76
4:41.96	Lisa Welch	82	16:03.04*	Judy Bijala	82	13.53	Arnita Epps	83
		82	16:04.87	Elleen Hornberger	80	13.56	Tonya Lowe	83
4:42.44*	Debbie Eide				78			
4:42.64*	Francie Kraker	71	16:06.04*	Sue Schaefer		13.57	Janet Yarbrough	82
4:42.64*	Deanna Coleman	78	16:06.13	Stephanie Weickert	83	13.60	Carolyn Faison	82
4:42.64*	Suzie Houston	80	16:07.06	Kate Ishmael	83	13.60	Linda Cole	83
4:42.65	Julie Shea	77	16:07.34*	Tori Neubauer	83	13.61	Candice Williams	81
4:43.24*	Chris Curtin	82	16:07.44*	Kim Schnurpfeil	81	13.62	Jodi Anderson	79
			16:08.69	Nan Doak	83	13.62	Jackie Joyner	83
4:42.64*	Ann Henderson	78			83			
4:44.44*	Cyndy Poor	79	16:09.66	Connie Jo Robinson		13.63	Angela Carson	83
4:44.44*	Michelle Rowen	82	16:10,53	Sherri Crang	83	13.63	Lavonna Martin	83
(4	6)		16:10.90	Suzanne Girard	83	13.64	Gayle Harris	78
	- /		16:10.93	Lynn Jennings	83	13.64*	Linda Bourne	81
2000 METE	ERS (*=Hand time +0.14)		16:11.71	Paula Renzi	83	13.64*	Karen Holmes	81
				Rocky Racette	80	13.64		
8:29.71	Mary Decker	82	16:10.64*		78		Kathy Freeman	83
8:42.74*	Jan Merrill	78	16:12.14*	Kris Bankes		13.65	Lorna Russell	82
8:48.09	Brenda Webb	83	16:12.70	Donna Gathje	80	13.65	Pat Lavallis	83
8:49.96	Maggie Keyes	83	16:13.12	Mary Jean Wright	83	. 13.66	Gwen Poss	81
8:50.79	Kathy Hayes	83	(49	9)		13.67	Lexie Miller	81
		79	(· · -	- /		13.67	Claire Hairston	81
8:51.03	Francle Larrieu							
8:51.11	Cindy Bremser	81				13.69	Mitzi McMillan	78
8:53.49	Joan Benoit	83				13.69	Maureen McGee	81
8:53.49 8:53.74	Joan Benolt Joan Hansen	83 83	10000 MET	ERS (*=Hand time +0.14)		13.69	Maureen McGee Sheriffa Sanders	81 83
8:53.74	Joan Hansen	83	10000 MET 31:35.44*	ERS (*=Hand time +0.14) Mary Decker	82	13.70	Sheriffa Sanders	83
8:53.74 8:53.81	Joan Hansen PattiSue Plumer	83 83	31:35.44*	Mary Decker		13.70 13.71	Sheriffa Sanders Debbie Deutsch	83 80
8:53.74 8:53.81 8:57.27	Joan Hansen PattiSue Plumer Ceci Hopp	83 83 82	31:35.44* 32:22.64*	Mary Decker Kellie Cathey	82	13.70 13.71 13.71	Sheriffa Sanders	83
8:53.74 8:53.81 8:57.27 8:58.14*	Joan Hansen PattiSue Plumer Ceci Hopp Cathie Twomey	83 83 82 82	31:35.44* 32:22.64* 32:30.94*	Mary Decker Kellie Cathey Joan Benoit	82 82	13.70 13.71	Sheriffa Sanders Debbie Deutsch	83 80
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27	Joan Hansen PattiSue Plumer Ceci Hopp Cathle Twomey Julie Brown	83 83 82 82 79	31:35.44* 32:22.64* 32:30.94* 32:49.24*	Mary Decker Kellie Cathey Joan Benoit Bath Farmer	82 82 83	13.70 13.71 13.71	Sheriffa Sanders Debbie Deutsch	83 80
8:53.74 8:53.81 8:57.27 8:58.14*	Joan Hansen PattiSue Plumer Ceci Hopp Cathle Twomey Julie Brown Betty Springs	83 82 82 79 83	31:35.44* 32:22.64* 32:30.94* 32:49.24* 32:52.64*	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea	82 82 83 79	13.70 13.71 13.71	Sheriffa Sanders Debbie Deutsch	83 80
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27	Joan Hansen PattiSue Plumer Ceci Hopp Cathle Twomey Julie Brown	83 83 82 82 79	31:35.44* 32:22.64* 32:30.94* 32:49.24* 32:52.64* 32:58.74*	Mary Decker Kellie Cathey Joan Benoit Bath Farmer	82 82 83 79 83	13.70 13.71 13.71	Sheriffa Sanders Debbie Deutsch	83 80
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 8:59.79	Joan Hansen PattiSue Plumer Ceci Hopp Cathle Twomey Julie Brown Betty Springs	83 82 82 79 83	31:35.44* 32:22.64* 32:30.94* 32:49.24* 32:52.64*	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea	82 82 83 79	13.70 13.71 13.71	Sheriffa Sanders Debbie Deutsch	83 80
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 8:59.79 9:01.44 9:02.74*	Joan Hansen PattiSue Plumer Ceci Hopp Cathle Twomey Julie Brown Betty Springs Lynn Jennings Julie Shea	83 82 82 79 83 83	31:35.44* 32:22.64* 32:30.94* 32:49.24* 32:52.64* 32:58.74* 33:01.02	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea Eleanor Simonsick Betty Springs	82 82 83 79 83 83	13.70 13.71 13.71 (50)	Sheriffa Sanders Debbie Deutsch	83 80 82
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 8:59.79 9:01.44 9:02.74* 9:03.04*	Joan Hansen PattiSue Plumer Ceci Hopp Cathie Twomey Julie Brown Betty Springs Lynn Jennings Julie Shea Mary Shea	83 82 82 79 83 83 83 80 80	31:35.44* 32:22.64* 32:30.94* 32:49.24* 32:52.64* 32:58.74* 33:01.02 33:02.32	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea Eleanor Shonsick Betty Springs Julie Shea	82 83 79 83 83 83	13.70 13.71 13.71 (50) 400 METER	Sheriffa Sanders Debbie Deutsch Barbara Scott	83 80 82 time +0.14)
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 8:59.79 9:01.44 9:02.74* 9:03.04* 9:03.31	Joan Hansen PattiSue Plumer Ceci Hopp Cathie Twomey Julie Brown Betty Springs Lynn Jennings Julie Shea Mary Shea Kathy Mills	83 82 82 79 83 83 80 80 78	31:35.44* 32:22.64* 32:30.94* 32:49.24* 32:52.64* 32:58.74* 33:01.02 33:02.32 33:06.09	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea Eleanor Simonsick Betty Springs Julie Shea Kim Schurpfeil	82 83 79 83 83 80 82	13.70 13.71 13.71 (50) 400 METEF 55.69	Sheriffa Sanders Debbie Deutsch Barbara Scott	83 80 82 time +0.14) 83
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 8:59.79 9:01.44 9:02.74* 9:03.04* 9:03.31 9:03.91	Joan Hansen PattiSue Plumer Ceci Hopp Cathle Twomey Julie Brown Betty Springs Lynn Jennings Julie Shea Mary Shea Kathy Mills Eleanor Simonsick	83 82 82 82 83 83 80 80 78 83	31:35.44* 32:30.94* 32:49.24* 32:52.64* 32:58.74* 33:01.02 33:02.32 33:06.09 33:06.70	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea Eleanor Simonsick Betty Springs Julie Shea Kim Schurpfeil Melanie Weaver	82 83 79 83 83 80 82 83	13.70 13.71 13.71 (50) 400 METEF 55.69 55.78	Sheriffa Sanders Debbie Deutsch Barbara Scott R HURDLES (*=Hand Lori McCauley Sharrieffa Barksdale	83 80 82 time +0.14) 83 83
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 8:59.79 9:01.44 9:02.74* 9:03.04* 9:03.91 9:03.98	Joan Hansen PattiSue Plumer Ceci Hopp Cathle Twomey Julie Brown Betty Springs Lynn Jennings Julie Shea Mary Shea Kathy Mills Eleanor Simonsick Margaret Groos	83 82 82 79 83 83 80 80 78 83 83	31:35.44* 32:22.64* 32:30.94* 32:49.24* 32:52.64* 32:58.74* 33:01.02 33:02.32 33:06.09 33:06.70 33:08.46	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea Eleanor Simonsick Betty Springs Julie Shea Kim Schurpfeil Melanie Weaver Kate Ishmael	82 83 79 83 83 80 82 83 83	13.70 13.71 13.71 (50) 400 METEF 55.69 55.78 55.78 56.03	Sheriffa Sanders Debbie Deutsch Barbara Scott R HURDLES (*=Hand Lori McCauley Sharrieffa Barksdale Judi Brown	83 80 82 time +0.14) 83 83 83
8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 8:59.79 9:01.44 9:02.74* 9:03.04* 9:03.31 9:03.91 9:03.98 9:06.23	Joan Hansen PattiSue Plumer Ceci Hopp Cathie Twomey Julie Brown Betty Springs Lynn Jennings Julie Shea Mary Shea Kathy Mills Eleanor Simonsick Margaret Groos Michele Bush	83 82 82 79 83 80 80 78 83 80 78 83 83 83 83	31:35.44* 32:22.64* 32:49.24* 32:52.64* 32:58.74* 33:01.02 33:02.32 33:06.09 33:06.70 33:08.46 33:11.54*	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea Eleanor Simonsick Betty Springs Julie Shea KIm Schurpfeil Melanie Weaver Kate Ishmael Patty Catalano	82 83 79 83 83 80 82 83 83 81	13.70 13.71 13.71 (50) 400 METEF 55.69 55.78 56.03 56.16	Sheriffa Sanders Debbie Deutsch Barbara Scott R HURDLES (*=Hand Lori McCauley Sharrieffa Barksdale Judi Brown Esther Mahr	83 80 82 time +0.14) 83 83 83 80
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8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 9:01.44 9:02.74* 9:03.04* 9:03.91 9:03.91 9:03.98 9:06.23 9:06.84* 9:07.64*	Joan Hansen PattiSue Plumer Ceci Hopp Cathle Twomey Julie Brown Betty Springs Lynn Jennings Julie Shea Mary Shea Kathy Mills Eleanor Simonsick Margaret Groos Michele Bush Debbie Eide Eryn Forbes	83 82 79 83 80 80 78 83 83 83 83 83	31:35.44* 32:22.64* 32:30.94* 32:52.64* 32:52.64* 32:52.64* 33:01.02 33:02.32 33:06.70 33:08.46 33:11.54* 33:15.24*	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea Eleanor Simonsick Betty Springs Julie Shea Kim Schurpfeil Melanie Weaver Kate Ishmael Patty Catalano Debbie Eide Peg Neppel	82 83 79 83 83 80 83 83 83 81 83 81 87	13.70 13.71 13.71 (50) 400 METER 55.69 55.78 56.03 56.16 56.28	Sheriffa Sanders Debbie Deutsch Barbara Scott HURDLES (*=Hand Lori McCauley Sharrieffa Barksdale Judi Brown Esther Mahr Tammie Etienne	83 80 82 time +0.14) 83 83 83 83 80 82
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8:53.74 8:53.81 8:57.27 8:58.14* 8:58.27 8:59.79 9:01.44 9:02.74* 9:03.04* 9:03.91 9:03.91 9:03.98 9:06.23 9:06.84* 9:07.64* 9:07.65 9:08.58	Joan Hansen PattiSue Plumer Ceci Hopp Cathie Twomey Julie Brown Betty Springs Lynn Jennings Julie Shea Mary Shea Kathy Mills Eleanor Simonsick Margaret Groos Michele Bush Debbie Eide Eryn Forbes Kate Schilly Ann Pewe	83 82 79 83 80 78 83 80 78 83 83 83 83 82 82 82 82 82	31:35.44* 32:22.64* 32:30.94* 32:49.24* 32:52.64* 33:01.02 33:00.02 33:06.09 33:06.09 33:06.70 33:08.46 33:11.54* 33:14.74* 33:14.74* 33:15.24* 33:28.20	Mary Decker Kellie Cathey Joan Benoit Bath Farmer Mary Shea Eleanor Simonsick Betty Springs Julie Shea Kim Schurpfeil Melanie Weaver Kate Ishmael Patty Catalano Debbie Eide Peg Neppel Judi St. Hilaire Alleen O'Connor	82 82 83 79 83 83 82 83 83 83 81 82 77 81	13.70 13.71 13.71 (50) 400 METER 55.69 55.78 56.03 56.16 56.28 56.38 56.38 56.46 56.46	Sheriffa Sanders Debbie Deutsch Barbara Scott A HURDLES (*=Hand Lori McCauley Sharrieffa Barksdale Judi Brown Esther Mahr Tammie Etienne Sandra Myers Tonja Brown Edna Brown	83 80 82 time +0.14) 83 83 83 80 82 81 82 82
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US ALL	-TIME TOP 50 (Cont)		20' 9 20' 8 ³ /4 20' 8 ¹ /2	Kim Schofleid Sabrina Douglas Gayle Watkins	82 83 81	174'11 174' 9 174' 6	Karen Nickerson Natalie Kaajawahja	83 83
58.70	Colette Winlock	78 .	20' 81/4	Charyl Butler	74	174' 5	Carol Frost Joan Gago	71 82
58.70	Sybil Perry	83	20' 8	Agnes Riley	81	174' 3	Loreena Anderson	83
58,75 58,84	Ellen Smith Vata Allen	81 · 81	20' 8	Wendy Brown	82	173' 8	Karen McDonald	81
58.86	Michelle Hawthorne	79	20' 7 ³ /4 20' 7 ³ /4	Lanessa Jones Becky Kajser	80	172'11	Julie Cart Karen Wood	81
58.89	Karen Taylor	81	20' 73/4	Sandy Crabtree	82 83	171'10	Monette Branson	83
58.92	Angella Williams	82	20' 71/4	Taml Rucker	79	170' 4	Didi Kavanaugh	82
58.94*	Carolyn Brinkley	78 .	20' 71/4	Tracy Valentine	83	169' 9	Diane Oswalt	83
58.94 (49)	Lisa Davis	83	20' 7¼ 20' 7	Fletcher	83	169'7 169'5	Laura DeSnoo	82
(43)			20' 7	Dora Lee Roberts Mary Ayers	71 77	168' 4	Mary Hyder Glenda Ford	83 83
HIGH JUM			20' 7	Debra Carson	78	168' 3	Karen Marshall	77
6'7	Louise Ritter	83 .	20' 7	Lynn Gamble	82	168' 2	Carla Garrett	83
6'6 ³ /4 6'5 ¹ /2	Coleen Sommer Pam Spencer	82 81	20' 7 20' 7	Sharon Moultrie	82	167'11 167'5	Leslie Hoerner Robin Small	81
6'31/2	Phyllis Blunston	82	20' 7	Jewel Lovelady Janet Yarbrough	82 83	167' 5	Jacque Norton	82 82
6'23/4	Joni Huntley	75	(50)	ounor runbrough	00	166' 9	Dana Olson	82
6'23/4	Lisa Bernhager	83 .				166' 6	Nadine Cox	83
6'2 ^{1/4} 6'2 ^{1/4}	Paula Girven Kym Carter	81	SHOT PUT			166' 1 (46	Becky Fettig	83
6'2	Mary Moore	81	62' 73/4	Maren Sejdler	79	(40	,	
6'2	Sue McNeal	82	58' 51/4	Lorna Griffin	83			
6'2 6'1 ¹ /2	Ann Bair	83	57' 03/4	Peggy Pollock	83			
6'11/2	Jackle Joyner Wendy Markham	83 83	56' 8 ^{1/2} 56' 8	Denise Wood Ann Turbyne	83 80			
6'11/2	Katrina Johnson	83	56' 63/4	Carol Cady	83	JAVELIN	THROW Kate Schmidt	77
6'11/4	Denise Daebelliehn	80	56' 1	Regina Cavanaugh	83	212' 6	Karen Smith	77
6'1¼ 6'1¼	Cindy Greiner Bonnie Harrington	82 83	54' 93/4 54' 91/2	Earlene Brown	60	207'11	Sherry Calvert	78
6'1	Sharon Burrill	79	54' 71/4	Ramona Pagel Bonnie Dasse	83 83	202' 3	Lynda Hughes	82
6'1	Carolyn Ford	81	54' 6	Kathy Devine	79	198'8 196'3	Barbara Freidrich Reneae Bair	67 67
6'1	Tonya Mendonca	83 -	54' 01/2	Elaine Sobansky	82	196' 1	Cathy Sulinski	76
6'0 ³ /4 6'0 ³ /4	Cindy Gilbert Jane Frederick	80	53'11 53' 7¾	Sandy Burke Natalie Kaaiawahia	82	195' 0	Dana Olson	82
6'03/4	Kari Gosswiller	83	53' 51/2	Jan Svendsen	72	192'3 191'2	Lynn Cannon Deanna Carr	77
6'01/2	Maggie Garrison	78	53' 11/2	Quenna Beasley	83	190' 4	Sally Harmon	82
6'01/2 6'01/4	Tonya Alston	81 .	53' 1	Lynn Graham	71	189' 4	Patty Kearney	81
6'0	Jane Clough Marilyn Dubbs	83 78 ·	53'1 53'0¾	Jane Frederick Marcia Mecklenberg	78 83	186' 8	Celeste Wilkinson	78
6'0	Sherri Felton	78	52'111/2	Annette Bohach	82	186' 4 181' 3	Roberta Brown Mary Osborne	71 80
6'0	KIm Harrell	79	52'10	Leslie Deniz	83	180' 0	Roz Rouse	83
6'0 6'0	Jalene Chase Karen Lysaght	79 80	52' 71/2	Nini Davis	82	179'7	Suzle Ray	83
6'0	Susan Lind	80 .	52' 23/4 52' 23/4	Annie McElroy Kathy Picknell	82 82	179'0 178'10	Barbara Moro	83
6'0	SybII Reddick	81	51'113/4	Sharon Hamilton	83	178' 3	Louise Gerrish Jeanne Eggart	68 79
6'0	Shari Collins	81 .	51'111/4	Sue Thornton	81	178' 2	Liz Mueller	83
6'0 6'0	Anne Erpenbeck Julie Waters	81 81	51'10½ 51' 9	Caryl Van Pelt	81	178' 0	Jacque Nelson	83
6'0	Kathy Raugust	81	51' 81/2	Karen Waddell Mary Jacobson	83 79	175' 4	Michelle Olivera Connie Gasson	83 77
6'0	Yolanda Gibson	81	51'7	Brenda Denny	79	174' 7	Danella Barnes	82
6'0 6'0	Sonya Crowther	82 .	51' 61/2	Emily Dole	78	174' 6	Barbara Whitfield	76
6'0	Frances Daniell Cindy Holmes	82	51' 51/2 51' 51/2	Lynne Winbigler Karen Wood	77 83	173' 7	Kathy Calo	83
6'0	Renee Nickles	82	51' 4	Lynette Matthews	71	173' 1	Linn Dunton Teri Cooper	80 81
6'0	Terri Turner	82	51' 31/2	Jennifer Lemke	83	172' 0	Jean Sweeney	71
6'0 6'0	Yvonne Netterville Tamela Penny	83 - 83	51' 1 ¹ / ₂ 51' 0 ¹ / ₂	JIII Stenwell	79 -	171'11	Deena Bernstein	82
6'0	Mary Mol	83	51' 01/4	Dorothy Jones Pinky Suggs	83 83	171'11 171' 9	Mary Chrobak	83
6'0	Camille Harding	83	50'111/2	Julie Jones	82	170' 9	Donna Mayhew Gloria Wilcox	83 64
(47)			50'103/4	Karen Nitsch	83	170' 7	Kristen Engle	82
			50'10 50' 9½	Cindy Reinhoundt Melody Rose	73 - 80	170' 6	Vickle Smiley	83
			50' 4	Lorraine Costanzo	83 -	169'10 169' 9	Donna Dietrich	76
LONG JUM			50' 21/2	Early Douglas	83	169' 6	Tonja Reigle Dodje Campbell	79 83
22'111/2	Jodi Anderson	80 83	50' 2 ¹ /2 50' 1 ³ /4	J. Smith	83	169' 4	Jane Frederick	82
22'10½ 22'3	Carol Lewis Kathy McMillan	76	50' 03/4	Carla Garrett Djane Clements	83 - 83	169' 3	Susan Armstrong	73
21' 91/2	Gwen Loud	83	49' 9	Tracey Toon	82 -	168'11 168'11	Nancy Raczka Rene Lambrecht	81 79
21'9	Jackie Joyner	83	49' 81/4	Deanna Patrick	77	168'10	Susle Norton	75
21' 7 ¹ / ₂ 21' 7 ¹ / ₄	Sherron Walker	76 73	(49)			167' 9	Pam Passera	. 82
21' 61/4	Martha Watson Jane Frederick	78	DISCUS TH	ROW		- 167' 6	Debble Williams	82
21' 61/4	Pat Johnson	80	213' 1	Leslie Deniz	83	166' 2 (47	Marllyn Senz	83
21'6	Willye White	64	207' 8	Carol Cady	83	(4)	,	
21' 51/4	Angela Thacker Lorraine Ray	83 81	207' 5 192' 1	Lorna Griffin Pia Iacovo	80 83			
21' 4 21' 4	Becky Clayton	83	190'10	Kathy Picknell	82			
21' 4	Menka Sykes	83	190' 3	Penny Neer	83	HEPTATH	LON	
21' 31/2	Sheila Nicks	83	189'6	Lynne Winbigler	72	6458	Jane Frederick	82
21' 23/4	Marlene Harmon	83 82	189'4 189'0	Denise Wood Olga Connolly	83	6365	Jackle Joyner	83
21' 1 ¹ / ₄ 21' 1 ¹ / ₄	Meledy Smith Veronica Bell	82	184' 3	Julie Hansen	72 83	6266w 6068	Mariene Harmon Cindy Greiner	83 83
21' 0	Donna Thomas	82	182'10	Gale Zapharopolous	83	5962	Patsy Walker	83
20'113/4	Vicki Betts	76	181'10	Jan Svendsen	82	5839	Nancy Kindig	81
20'11¾ 20'11½	Kathy Rankins Lori Risenhoover	82 82	181'7 179'10	Helene Connell Becky Levi	80 83	5706	Susie Ray	83
20'103/4	Evalene Hatcher	81	178'10	Victoria Gay	83	5705 5698	Joan Russell Mary Harrington	83 81
20'103/4	Rhonda Palne	83	177' 8	Julle Jones	83	5659w	Myrtle Chester	83
20'10	Melba Allen	82	177' 7	Laura Messner	81	5621	Lana Zimmerman	83
20'10 20' 9¾	Teri Serrano Barbara Scott	82 82	176'10	Earlene Brown Jackje Wallace	60 83	5620	Carrie McLaughlin	83
20' 93/4	Colette Williams	83	176' 4	Cindy Johnson	82	5618 5615	Theresa Smith Sue Brownell	81
20' 91/2	Marilyn King	76	176' 4	Quenna Beasley	83	5611	Tonya Alston	83
20' 9 ^{1/4} 20' 9 ^{1/4}	Kim Attlesey Sandra Myers	72 81	176' 0	Linda Langford	76	5592	Sonya Crowther	82
20 374	Sanara myora	01	176'0	Lisa Vogelsang	80	5583	Jenny Stary	81

5581	Cindy Banks
5579	Debbie DaCosta
5553	Debbie Larsen
5542	Heldi Mann
5514	Kathy Raugust
5498	Kerry Bell
5490w	Laurie Young
5466	Renee Nickles
5448	Kathy Gillesple
5444w	Juanita Alston
5435	Lori Smith
5430w	Carla Battaglia
5412	Linda Hightower
5404	Sharon Hatfield
5402	Tracy Hanlon
5387	Ann Bair
5357	Janet Nicolls
5346	Camile Harding
5335	Margot Rogus
5324	Jill Lancaster
5318	Cathy Borgworth
5313	Yutta Shelton
5277	Karen Roth
5222	Sandra Obermeir
5210	Debra Deutsch
5200	Laura Mills
5196	Roxanne Keating
5177	Chris Dubois
5161	Chris Vigule
5158	Cindy Holmes
5157	Chris Davenport
5155	Cathy Wilson
(49)	Gutily Wilson
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MARATHON

MARAI	HON
2:22:43	Joan Benoit
2:26:26	Julie Brown
2:27:51	Patti Catalano
2:30:12	Julle Shea
2:31:09	Marianne Dickerson
2:33:23	Nancy Conz
2:33:24	Mary Shea
2:33:25	Gabriele Anderson
2:33:36	Karen Dunn
2:33:36	Laurie Binder
2:33:52	Jenny Spangler
2:33:53	Susan King
2:34:24	Julie Isphording
2:34:27	Jan Yerkes
2:34:56	Lisa Larson
2:34:59	Laura DeWald
2:35:16	Debbie Elde
2:35:17	Ellen Hart
2:35:31	Nancy Ditz
2:35:43	Janis Klecker
2:35:43	Marty Cooksey
2:36:18	Jane Welzel
2:36:47	Janis Horns
2:36:54	Jane Buch
2:36:55	Debbie Mueller
2:36:56	Kiki Sweigert
2:37:03	Margaret Groos
2:37:15	Betty Springs
2:37:16	Elleen Claugus
2:37:19	Jane Wipf
2:37:24	Debbje Thometz
2:37:41 2:37:44	Kere Cossaboom
	Rainey Stolp
2:37:46	Bath Farmer
2:37:56	Sarah Linsley
2:37:57	Kim Merritt
2:37:57	Carol Urish
2:38:04	Lorrie Dierdorff
2:38:15	Isabelle Carmichael
2:38:18	Patti Gray
2:38:19	Jackle Hansen
2:38:19	Ann Peisch
2:38:30	Kellje Cathey
2:38:31	Maureen Custy
2:38:51	Sue Krenn
2:39:08	Michele Bush
2:39:08	Mindy Ireland
2:39:11	Miki Gorman
2:39:15	Nancy Mieszczak
2:39:17	Shirley Durtschi
	50)
(50)

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WEIGHT TRAINING

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By Bob Yakas (From "The Nor'wester")

In his book "This Running Life", Dr. George Sheehan talks of the upper body being used only for balance while the lower body, from the hips down, does the actual running. While this assertion is basically true, if the muscles of the trunk are not strong, fatigue sets in more easily. So there goes your balance, and, with it, some of your endurance. Weight training exercises for the upper body, especially for runners, are a must if you want to assure over-all body power.

Off season is a good time to concentrate on total body strength to help you condition you for the next racing and long runs you'll face next season. Gains in strength and muscular mass can easily be achieved through systematic, progressive resistance on most any weight training apparatus.

Building muscle is a matter of inducing chemical changes in muscle tissue through the stimulus of exercise. Muscles adapt to the work they're put to, and as work progressively increases, muscles respond by growing larger and stronger.

The intensity with which you work is an important factor in this equation. A poundage chosen for a particular movement should, if the exericse is to be effective, be difficult to handle in the last repetition of the last set. In most cases with conventional equipment 3 sets of 8 to 10 repetitions are sufficient to assure a proper intensity which will bring a muscle to the fatigue point.

Experts also emphasize the importance of rest between workouts, as this is the time when the tissue rebuilds and your body recuperates from the stress of the work. Three workouts a week on alternate days is the usual recommendation.

What kind of workouts are the best? "Resistance is resistance" says Dr. Ken Foreman, internationally known exercise physiologist. "Muscle building will occur over a period of time no matter what you push or pull against as long as it is progressive and done on a regular basis."

The two most popular choices these days are free weights and equipment, and Nautilus.

Free weights are those inert chunks of iron with long (barbell) and short (dumbell) bars with changeable or fixed weights and the attendant benches, pulleys and racks. This equipment has been the bulwark of bicep building and you'll probably remember that old rusted-out set of weights thrown in the darkest, dampest corner of your basement. Everyone, at one time or another, has purchased a set of these things.

Well, go dig them out because they are all you really need to fully exercise every major muscle group in your body. Sure, you can invest in some of the new flashy devices on the market, but in the end it all comes down to resistance and nothing more. A set of barbells and a bench won't force you to remodel in order to have workout space. And they'll provide you with the needed resistance to build all the strength you need to augment your running.

While most free weight exercises work muscles synergistically, that is, in groups (i.e. in doing a dead lift, an exercise principally for the lower back, the hips, legs, upper back and arms benefit as well), Nautilus machines tend to specialize and isolate individual groups. Nautilus equipment is a fairly recent innovation by inventor/entrepreneur Arthur Jones and is supported by research done at the Nautilus Sports Medicine Industries in Florida.

Nautilus uses an ingenious system of cams and pulleys which adjust resistance throughout an exercise. Consequently, the weight being lifted becomes a variable resistance through a full range of motion.

"Because of the variable resistance principle," says Tom Anderson of Anderson's Nautilus Fitness Center near Greenlake, "better results are achieved, with greater joint flexibility than with other methods."

This is still a somewhat controversial area in sports physiology, but the claims Nautilus makes are well documented and legions of believers from casual fitness buffs to hard-core body-builders swear by it. To use Nautilus, however, you'll have to join one of the clubs. The 15 basic machines probably won't fit either in your basement or your budget!

As for exercise routines with free weights for total body strength, a routine including Bench Press, Half Squat, Dead Lift, Bent-over Rowing, Press Behind Neck, Heel Raise and Curl done for 3 sets of 8 to 10 repetitions will work all the muscle groups of your body and provide you with sufficient resistance exercise in about 30 minutes.

With Nautilus use these machines: Hip and Back, Squat, Leg Extensions/

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AEROBICS

By Vickie Aldrich & Richard Harrington (From "The Nor'wester")

Aerobic exercise has become a way of life and is no longer considered a trend or fad. Newspapers and magazines are full of articles on aerobic exericse, and class participants range from the Seattle Seahawks to expectant mothers and newborn babies.

Many runners have wondered whether aerobics might be a worhtwhile addition to their training program, or a substitute activity in the dark and rainy winter months. There is a certain appeal to working out in a warm, dry gym to the beat of lively music while outside the weather is doing its worst.

But if an aerobics class is to help a runner, she must have goals, then find a class which meets them. Just as a running workout can be designed to improve speed, leg strength, or endurance, aerobics classes are designed to provide different levels of workouts for cardiovascular conditioning, muscle strength and endurance and flexibility.

Programs range from the non-competitive, conditioning participant to the serious runner or triathlete. Additionally we see swimmers, skiers, soccer and basketball players, and even one amateur race car driver, participate in the classes.

Aerobic exercises are intended to improve the ability of your heart and lungs to deliver oxygen to your muscles. Any activity which increases your heart rate into your training range or "target zone" and maintains it there for at least 20 to 30 minutes, three times a week, meets this definition. Your training range is based on your age and resting heart rate.

The simplest formula is: Training Heart Rate=(180-Age)

Beats per minute

Many runners have heard of the "talk test" in which you carry on a conversation with your running partner. This also keeps your heart rate in the training range. More precise formulas are available in Dr. Kenneth Cooper's book on aerobics for those who are interested.

Aerobics classes use various exercises or dance movements in order to warm up and maintain the heart rate in the training range. These activities usually involve motion in all directions and use more muscles than running, often providing a more complete exercise program.

After completing the exercises designed to provide cardiovascular conditioning, the class moves to other activities, depending on the goals of the instructor and students. Some classes are designed for specific sports such as skiing or tennis, while others concentrate on flexibility or muscular strength and endurance.

Classes taught in swimming pools are good for runners suffering from back or leg injuries. Aerobic dance classes usually use choreographed routines and are good for developing flexibility. Aerobic exercise classes use standard calisthenics such as jumping jacks, running in place, situps, pushups, leg lifts, and so forth, done to the beat of music. Men seem to prefer the exercise style classes with fewer dance moves while choreographed dance-style classes have more females..

The best method to determine whether or not a class is for you is to go to a few different classes to discover which one is most to your liking. Factors to consider: Is the class convenient to where you live or work? Do you feel comfortable in attending the class? Is the class priced within your means? Is the workout what you're looking for? Do you have any physical problems (such as knee or back injuries) which limit the type of exercise you can do? Is the instructor knowledgeable and motivating? Talk with members of the class and learn what they like and dislike about the class.

Most instructors will allow a new student to participate in a workout the first time free or for a small fee. This is the best method to determine if a class will meet your needs. Since many of the classes fill up rapidly, especially in the winter months, now is the time to check out some.

An instructor should have training in anatomy and physiology, CPR, basic first aid, and knowledge of athletic training theory, injury treatment and prevention. We also believe an instructor should have a very high level of personal fitness to meet the demands of teaching large and diverse groups and to maintain a high level of motivation. Many states are initiating certification programs for instructors, but Washington has no such requirement at this time.

While we recommend enrolling in a class where motivation and energy levels are high and the instructor can guide participants in correct performance of exercise, other types of aerobics programs are available on television and through records or tapes.

But such 20 minute workouts are fast paced and oftern hard to follow. Not only that, 20 minutes is simply not a long enough period of time to maintain a high level of fitness. People we know who have purchased the recorded programs prefer attending classes in person, using tapes and records at home when they cannot get to class.

(Richard Harrington and Vickie Aldrich are members of the Seattle Track Club and have taught aerobics for four years. Harrington is a biomechanical engineer in orthopedic research at the Veteran's Administration Hospital. Aldrich studies kinesiology at the University of Washington.)



WEIGHT TRAINING (Cont)

Curl, Abductor/Adductor, Low Back, Press/Laterals. Each exercise is done for one set of 12 to 15 repetitions and the routine takes from 20 to 30 minutes.

To explain more fully what these exercises are, as well as other things you may want to know about training with free weights or Nautilus, the information is as close as your library or your favorite book store. Some helpful recent books include:

"Weight Training for Runners" by the editors of Runner's World;

"Strength Training by Experts", edited by Riley;

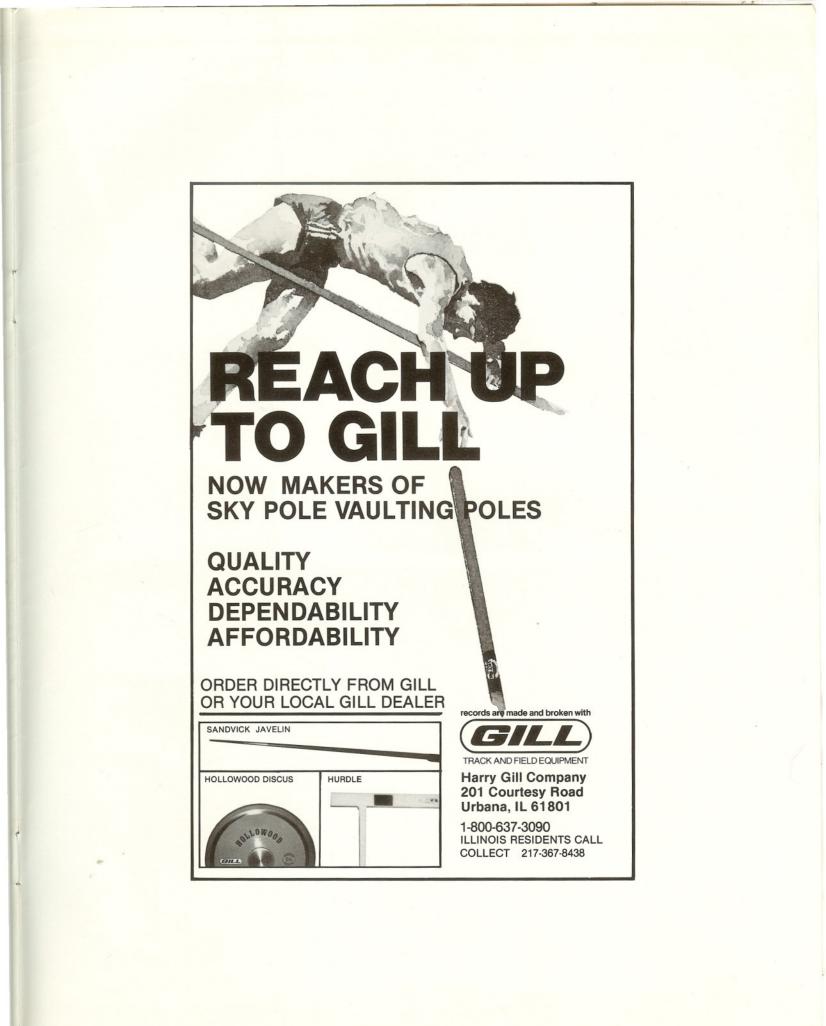
"Mike Mentzer's Complete Book of Weight Training";

"The Mentzer Method of Fitness" by Mike Mentzer;

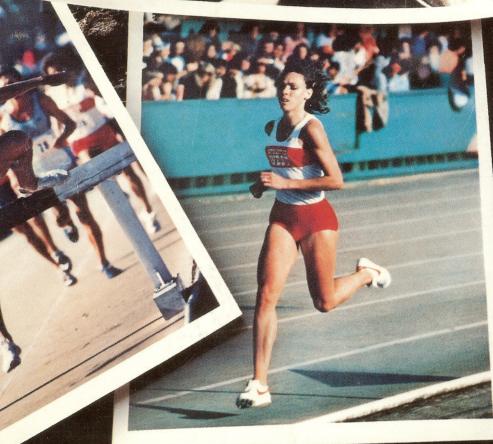
"Nautilus" by Ellington Darden.

So the next time the dark, cold rain keeps you from hitting the road, pump some iron. It will pay off in big dividends in your future miles.









PASSION IS THE MOTHER OF INVENTION.

When the first crude sample was brought onto the field, there was no talk of lab results or computer analysis.

No one asked how this model would affect the bottom line.

There was no bottom line. Only athletes.

And a bull-headed coach so totally obsessed with performance that he had whittled

his own last and made his own track shoe.

We were nothing but a bunch of fanatics. Willing to lace up anything that would move us faster, take us higher or farther than we'd ever gone before.

The fanaticism has been incorporated. And there's money now. Research teams. Doctors of anatomical and physical science working in one of the most sophisticated labs in the world.

And we're coming out with new shoes, better shoes than we ever dreamed possible.

But anyone who thinks these breakthroughs all come from computers, knows very little about the act of creation.

And virtually nothing about us.

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