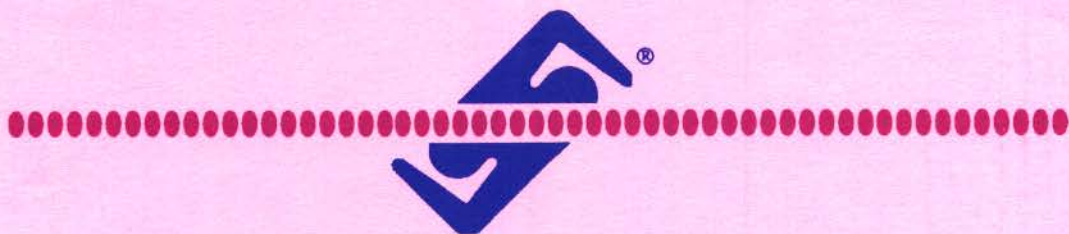


\$6.00

*United States
Masters Swimming, Inc.*

**1993
Top Ten
Long Course Meters**

**and
World Records
as of November 1, 1993
Short Course Meters
Long Course Meters**



Published December 1993

TOP TEN

Short Course Meters

(1992 Correction)

50 M. FREE M E N 65-69

30.07	FRANK PIEMME	67
31.19	BOB HARRIS	68
31.65	ROBERT BLAKE	67
32.76	JURGEN SCHMIDT	69
32.78	LUMAN SUTTON	65
33.27	GEORGE ERSWELL	65
34.84	JOHN REESE	66
34.96	DONALD HUBBARD	65
35.02	CARL EDWARDS	65
35.21	JOHN WEIR	68

100 M. FREE M E N 65-69

1:08.93	FRANK PIEMME	67
1:11.43	ROBERT BLAKE	67
1:12.33	ED KERSWILL	66
1:16.50	GEORGE ERSWELL	65
1:16.80	JURGEN SCHMIDT	69
1:18.78	BERNIE GUTTILLA	66
1:20.68	LEE ARTH	67
1:20.69	WAYNE SHADBOLT	67
1:21.90	JARKA BURIAN	65
1:23.77	FLOYD ELIOTT	65

200 M. FREE M E N 65-69

2:39.07	FRANK PIEMME	67
2:39.50	ED KERSWILL	66
2:48.78	GEORGE ERSWELL	65
2:53.34	JURGEN SCHMIDT	69
2:53.65	ROBERT BLAKE	67
2:53.85	LEE ARTH	67
2:55.54	W MORGAN BYERS	65
2:56.22	DON KORTEN	65
2:56.50	WAYNE SHADBOLT	67
2:58.31	WIN WILSON	65

TOP TEN

Long Course Meters

50 M. FREE WOMEN 19-24	50 M. BACK WOMEN 19-24	50 M. FLY WOMEN 19-24	1:01.61 AMY KNOTT	26
27.94 DANA DUTCHER 92	31.55 TORI SMITH 90	30.03 SUNNY SMILEY 93	1:01.63 AIMEE LEHR	26
28.33 MICHELLE DAVID 23	32.15 SUNNY SMILEY 23	30.03 SUNNY SMILEY 23	1:01.88 AMY ROE	26
28.76 MICHELLE GHIGGERI 24	33.65 MICHELLE DAVID 23	30.89 JACKIE BAK 23	1:02.48 VICKY DAVIDSON	28
29.08 SUNNY SMILEY 23	35.52 S.STEINHILBER 23	31.58 CHERIE TAYLOR 24	1:03.64 WENDY INGRAHAM	29
29.13 CHERIE TAYLOR 24	35.59 JACKIE BAK 23	31.73 MICHELLE WHALE 23	1:03.74 LIESA BENN	28
29.39 MINOO GUPTA 23	35.72 AMANDA HALL 24	32.76 MICHELLE GHIGGERI 24	1:04.35 CHRISTINE HOLMAN	28
29.97 E.A. SOLLEE 21	36.24 BETH SKOREY 21	33.48 KYLE FISHER 22	1:04.94 JENNIFER NORRIS	26
30.55 JOANNA CROSBY 23	36.59 TINA ESSEX 22	33.58 AMANDA HALL 24	1:05.13 MARY HENNINGSEN	27
30.82 AMY YOUNG 23	37.15 AMY CHRISTENSON 24	33.62 JULIE LEEPER 24	200 M. FREE WOMEN 25-29	
30.88 KIRSTEN BLOMBERG 22	37.20 DIANE SPIVEY 22	33.64 DEBORAH HEIM 24	2:07.11 SARA SHAND	89
30.94 YURIKO SATO 24	37.47 KAREN HEARD 23	33.70 YURIKO SATO 24	2:12.19 AMY KNOTT	26
100 M. FREE WOMEN 19-24	100 M. BACK WOMEN 19-24	100 M. FLY WOMEN 19-24	2:16.13 STACY JONES	27
1:01.49 ANITA HARRISON 90	1:06.09 DAWN BRACIAK 87	1:06.05 BLANCA CASTILLO 88	2:18.27 VICKY DAVIDSON	28
1:04.61 CHERIE TAYLOR 24	1:10.25 SUNNY SMILEY 23	1:10.54 MICHELLE DAVID 23	2:18.94 LIESA BENN	28
1:04.80 MICHELLE GHIGGERI 24	1:15.27 JACKIE BAK 23	1:10.58 KYLE FISHER 22	2:21.32 MICHELLE CHOW	25
1:05.41 LOUISE KEOGH 24	1:17.32 CHRIS. SHILKUNAS 24	1:11.18 MICHELLE WHALE 23	2:22.33 LISA SHEEPER	29
1:06.15 TRISHA KLASMEIER 23	1:17.62 AMANDA HALL 24	1:11.66 JACKIE BAK 23	2:23.84 ANITA IRONS	29
1:06.93 KIRSTEN BLOMBERG 22	1:17.78 ELLEN SCHADE 24	1:13.73 MICHELLE GHIGGERI 24	2:24.24 CHERYL WARD	26
1:07.16 E.A. SOLLEE 21	1:18.41 S.STEINHILBER 23	1:14.00 CHRISTINE SCHULTZ 22	2:24.97 KAREN NEWSOM	26
1:08.05 YURIKO SATO 24	1:22.37 YASUKO KARSTENS 22	1:15.56 DEBORAH HEIM 24	2:25.54 KIRA MC DONOUGH	26
1:08.08 MELANIE JAMES 24	1:22.69 NELL REGAN 23	1:21.63 MEREDITH TAKARA 23	400 M. FREE WOMEN 25-29	
1:08.19 ELLEN SCHADE 24	1:25.14 AMY CHRISTENSON 24	1:26.24 AMY YOUNG 23	4:27.53 SARA SHAND	89
1:09.28 DEANNA LANHARDT 23	1:26.16 TERRI GOARD 23	1:31.46 JOANNA HARTLEY 22	4:37.42 LISA HAZEN	29
200 M. FREE WOMEN 19-24	200 M. BACK WOMEN 19-24	200 M. FLY WOMEN 19-24	4:44.69 AMY KNOTT	26
2:14.17 DIANE URSIN 87	2:26.62 MICHELLE DONAHUE 92	2:22.59 BLANCA CASTILLO 88	4:49.11 STACY JONES	27
2:21.30 MICHELLE DAVID 23	2:38.79 SUNNY SMILEY 23	2:34.15 KYLE FISHER 22	4:51.39 REBECCA FENSON	25
2:22.00 SAMANTHA ROYER 22	2:44.10 CHRISTINE SCHULTZ 22	2:49.88 CHRISTINE SCHULTZ 22	4:58.68 LISA SHEEPER	29
2:22.44 MICHELLE GHIGGERI 24	2:45.85 CYNTHIA MILLER 23	2:55.78 DEBORAH HEIM 24	5:00.05 ANITA IRONS	29
2:25.60 KYLE FISHER 22	2:46.34 ELLEN SCHADE 24	3:06.91 MEREDITH TAKARA 23	5:05.99 MARCIA CLEVELAND	29
2:26.67 MELANIE JAMES 24	2:47.03 CHRIS. SHILKUNAS 24	3:21.84 LARA FOREMAN 24	5:07.19 MICHELLE CHOW	25
2:27.29 TRISHA KLASMEIER 23	2:47.37 AMANDA HALL 24	3:36.12 SANDI HYDE 24	5:08.16 GLORIA NEMET	29
2:28.38 ELLEN SCHADE 24	2:52.29 MINOO GUPTA 23	200 M. I.M. WOMEN 19-24	5:08.99 JENNIFER ADAMS	27
2:28.43 LOUISE KEOGH 24	2:53.43 KAREN HEARD 23	2:29.90 MICHELLE DONAHUE 92	800 M. FREE WOMEN 25-29	
2:28.90 AMY DEARMOND 24	2:55.03 YASUKO KARSTENS 22	2:39.75 LOUISE KEOGH 24	9:18.43 SARA SHAND	89
2:29.51 DEBORAH HEIM 24	2:57.84 NELL REGAN 23	2:39.75 CHRISTINE SCHULTZ 22	9:39.85 LISA HAZEN	29
400 M. FREE WOMEN 19-24	50 M. BRST WOMEN 19-24	2:41.57 MICHELLE WHALE 23	10:11.40 LISA SHEEPER	29
4:40.07 CYNTHIA HINSHAW 92	35.22 TRACEY MCFARLANE 91	2:42.85 CYNTHIA MILLER 23	10:19.02 ANITA IRONS	29
4:57.91 SAMANTHA ROYER 22	35.90 LOUISE KEOGH 24	2:45.96 LAURA ANTONIETTA 22	10:26.21 MARCIA CLEVELAND	29
4:59.98 KYLE FISHER 22	37.12 E.A. SOLLEE 21	2:46.00 BRENDA SWEARINGIN 23	10:34.48 MICHELLE CHOW	25
5:00.45 LAURA ANTONIETTA 22	37.62 SHANNON MOSS 21	2:46.52 SHANNON MOSS 21	10:44.03 KAREN NEWSOM	26
5:14.73 CYNTHIA MILLER 23	39.03 KAREN HEARD 23	2:47.51 KAREN HEARD 23	10:51.76 JENNIFER NORRIS	26
5:17.01 JENNY MUELLER 22	40.41 PAMELA KING 19	2:48.21 SAMANTHA ROYER 22	10:53.44 JENNIFER ADAMS	27
5:17.08 DEBORAH HEIM 24	40.69 DEANNA LANHARDT 23	2:48.53 DEBORAH HEIM 24	10:53.70 DIANNE BATSON	25
5:17.22 AMY DEARMOND 24	40.75 CATHERINE HEUSEL 23	400 M. I.M. WOMEN 19-24	10:58.98 TORI SMITH	28
5:30.69 E.A. SOLLEE 21	40.77 KERRY WALLACE 23	5:20.39 DIANE URSIN 87	1500 M. FREE WOMEN 25-29	
5:31.60 JULIE LEEPER 24	41.21 MATORA MADLER 23	5:38.31 CHRISTINE SCHULTZ 22	17:38.78 AMY POPE	88
5:32.97 AMANDA HALL 24	41.96 DIEDRA CLARK 24	5:40.10 KYLE FISHER 22	18:21.05 LISA HAZEN	29
800 M. FREE WOMEN 19-24	100 M. BRST WOMEN 19-24	5:54.27 KAREN HEARD 23	20:10.73 JENNIFER ADAMS	27
9:54.84 CYNTHIA HINSHAW 92	1:18.44 TRACEY MCFARLANE 91	5:57.08 DEBORAH HEIM 24	20:23.68 GLORIA NEMET	29
10:17.88 LAURA ANTONIETTA 22	1:22.11 E.A. SOLLEE 21	6:28.89 LARA FOREMAN 24	20:50.00 KRISTEN HARVEY	28
10:18.04 KYLE FISHER 22	1:22.53 LOUISE KEOGH 24	6:45.35 LINDSAY NATA 19	21:01.70 LELIA REYNOLDS	26
10:19.61 SAMANTHA ROYER 22	1:22.78 KAREN HEARD 23	6:49.50 SANDI HYDE 24	21:17.55 CHRISTINE WINN	27
10:47.95 AMY DEARMOND 24	1:26.48 DEBORAH HEIM 24	6:59.99 MEREDITH TAKARA 23	21:19.13 LYNN UNDERWOOD	29
11:48.27 TAMMI KEELER 24	1:27.11 CYNTHIA MILLER 23	7:11.32 GINA LEGGIO 20	21:32.49 KELLEY ENG	27
12:06.89 REBECCA BARTLE 24	1:27.27 SHANNON MOSS 21	7:22.37 MARCY YEISLEY 24	21:44.23 MELANIE THOMPSON	29
12:19.14 CRISTINE CASHATT 22	1:27.65 BRENDA SWEARINGIN 23	*****	21:54.44 JANET STARK	27
12:22.56 MASI DENISON 22	1:28.50 SAMANTHA ROYER 22	50 M. FREE WOMEN 25-29	50 M. BACK WOMEN 25-29	
12:27.48 LARA FOREMAN 24	1:29.32 PAMELA KING 19	26.68 SARA SHAND 91	30.80 DIANE GRANER	89
12:30.44 JENNIFER BLAKE 24	1:32.58 GINA LEGGIO 20	28.21 AIMEE LEHR 26	31.80 AIMEE LEHR	26
1500 M. FREE WOMEN 19-24	200 M. BRST WOMEN 19-24	28.29 STACY JONES 27	32.24 JUDITH HUPP	29
18:37.22 CYNTHIA HINSHAW 92	2:51.20 LOUISE KEOGH 93	28.68 AMY ROE 26	32.81 TRICIA ZORN	29
19:16.00 KYLE FISHER 22	2:51.20 LOUISE KEOGH 24	28.82 VICKY DAVIDSON 28	33.39 TORI SMITH	28
19:44.01 SAMANTHA ROYER 22	2:59.77 KAREN HEARD 23	29.00 LIESA BENN 28	33.52 JANICE LESYNA	26
20:05.16 CHRISTINE SCHULTZ 22	3:00.47 CHRISTINE SCHULTZ 22	29.10 KATHY STEELE 29	33.58 VICKY DAVIDSON	28
20:23.64 KIRSTEN BLOMBERG 22	3:04.37 E.A. SOLLEE 21	29.12 JUDITH HUPP 29	34.59 VALERIE POIRER	29
20:39.08 DEBORAH HEIM 24	3:07.98 SHANNON MOSS 21	29.15 CHRISSY LAMBERT 26	34.85 CHRISTINE HOLMAN	28
20:52.78 JILL CEDERHOLM 23	3:10.12 DEBORAH HEIM 24	29.41 DEENA CROSSMORE 29	35.54 DONNA NEUMANN	29
20:58.67 AMY DEARMOND 24	3:18.51 BETH SKOREY 21	29.42 SUSAN MARCHETTI 28	36.06 SUZANNE WILKINSON	25
21:02.70 JENNY MUELLER 22	3:22.61 PAMELA KING 19	100 M. FREE WOMEN 25-29	100 M. BACK WOMEN 25-29	
21:07.20 SARA ZIMMERMANN 24	3:29.35 JENNIFER MURRAY 20	58.23 SARA SHAND 91	1:07.32 DIANE GRANER	89
21:39.25 E.A. SOLLEE 21	3:38.61 MASI DENISON 22	1:01.47 STACY JONES 27	1:09.72 AIMEE LEHR	26

TOP TEN

Long Course Meters

1:09.90 TRICIA ZORN 29	1:10.47 MICHELLE CHOW 25	2:11.33 SUSAN PORTER 31	2:29.22 JUDITH LALLIER 34
1:10.77 VICKY DAVIDSON 28	1:11.25 JUDITH HUPP 29	2:11.52 CAROL OLSON 30	2:30.31 KARLYN PIPES 31
1:11.89 TORI SMITH 28	1:11.97 TRACY PECK 26	2:15.33 LEISSA MILLS 33	2:32.53 ANDREA DEBUONO 30
1:12.32 AMY KNOTT 26	1:12.93 SHARON GEORGE 25	2:16.17 C.WEINKOFSKY 32	2:35.55 SHEILA MORTELL 31
1:12.81 JUDITH HUPP 29	1:13.37 E.HALOUZKA 28	2:17.43 BETH KNIGHT 33	2:38.62 LINDLEY DOUGHTY 34
1:13.94 JANICE LESYNA 26	1:13.67 MARCIA CLEVELAND 29	2:18.37 KARLYN PIPES 31	2:40.62 PAMELA BOSCOVICH 30
1:14.99 VALERIE POIRER 29	1:14.22 JANICE LESYNA 26	2:19.90 ELLEN FERGUSON 30	2:43.45 C.CHICHESTER 30
1:15.35 ROCHELLE SMITH 25	1:14.54 SUSAN AUGUSTUS 26	2:20.54 BARBARA MILANESE 31	2:45.26 AMY NEWELL 30
1:16.74 DONNA NEUMANN 29	1:15.82 JENNIFER NORRIS 26	2:20.88 LORI PAYNE 34	2:45.94 MONICA BAILEY 32
200 M. BACK WOMEN 25-29	200 M. FLY WOMEN 25-29	2:21.11 MARGUERITE MEYER 34	2:45.98 ROBIN BELCHER 31
2:19.97 DIANE GRANER 89	2:22.42 JUNE FORD 87	400 M. FREE WOMEN 30-34	50 M. BRST WOMEN 30-34
2:35.83 TORI SMITH 28	2:32.73 KAREN JACOBSON 26	4:30.38 BETH KNIGHT 91	35.90 LISA BENNETT 88
2:36.10 VICKY DAVIDSON 28	2:37.53 MARCIA CLEVELAND 29	4:35.05 BETH KNIGHT 33	36.06 BETH SCHEIMANN 31
2:38.89 JANICE LESYNA 26	2:40.36 TRACY PECK 26	4:38.18 SUSAN PORTER 31	37.58 JUDITH LALLIER 34
2:40.31 CHRISTINA DEKRAY 26	2:40.79 MICHELLE CHOW 25	4:44.36 LEISSA MILLS 33	37.65 JAN GIRAD 33
2:43.36 MARCIA CLEVELAND 29	2:45.77 SARA DEMYANOVICH 29	4:49.75 JOAN SMITH 32	37.79 SUSAN RICHMOND 32
2:44.84 CHRISTINE HOLMAN 28	2:48.43 E.HALOUZKA 28	4:51.65 KARLYN PIPES 31	38.39 LISA HAWK 30
2:45.17 DONNA NEUMANN 29	2:50.66 SUSAN AUGUSTUS 26	4:52.27 MARGUERITE MEYER 34	38.46 LESLIE COOPER 33
2:48.22 JAMIE HERRINGTON 27	3:03.64 JENNIFER SAVAGE 28	4:56.84 AMY POPE 32	38.47 CAROLYN KOSTER 31
2:50.14 LELIA REYNOLDS 26	3:06.86 JANET STARK 27	4:58.52 LORI PAYNE 34	38.48 JULIE MALCOLM 33
2:50.46 JENNIFER ADAMS 27	3:07.53 LESLIE RONACHER 28	4:59.58 NANCY LEWIS 34	38.70 EVE WALTON 31
50 M. BRST WOMEN 25-29	200 M. I.M. WOMEN 25-29	5:02.01 LORI SCHMIDT 30	38.74 LISA FLANAGAN 30
34.36 ROSEMARIE SEAMAN 87	2:25.45 SARA SHAND 89	800 M. FREE WOMEN 30-34	100 M. BRST WOMEN 30-34
35.81 TAMARA GREWENOW 25	2:34.15 STACY JONES 27	9:20.20 BETH KNIGHT 91	1:18.80 BETH SCHEIMANN 93
37.43 KAREN HEANEY 29	2:37.69 KAREN JACOBSON 26	9:31.74 SUSAN PORTER 31	1:18.80 BETH SCHEIMANN 31
38.26 LISA SHEEPER 29	2:39.39 JANICE LESYNA 26	9:48.69 BETH KNIGHT 33	1:21.16 JUDITH LALLIER 34
38.78 DEENA CROSSMORE 29	2:39.47 TRICIA ZORN 29	9:51.10 LEISSA MILLS 33	1:21.50 SUSAN RICHMOND 32
39.21 PAIGE HARPER 27	2:40.52 CHERYL WARD 26	9:59.52 H.VAUGHN-EDMONS 31	1:22.78 JAN GIRAD 33
39.78 KRISTIN NELSEN 27	2:43.22 KIRA MC DONOUGH 26	10:03.58 ELLEN FERGUSON 31	1:23.23 NANCY MITCHELL 31
40.16 MICHELLE CHOW 25	2:43.75 LIESA BENN 28	10:05.10 AMY POPE 32	1:24.04 LISA FLANAGAN 30
40.18 KATHY STEELE 29	2:46.75 E.HALOUZKA 28	10:06.12 BARBARA MILANESE 31	1:24.20 EVE WALTON 31
40.41 JENNIFER SAVAGE 28	2:46.83 TRACY PECK 26	10:11.45 MARGUERITE MEYER 34	1:25.86 MARIA KLEIN 34
40.51 SHARI CUTLER 28	2:48.04 DIANNE BATSON 25	10:13.96 NANCY LEWIS 34	1:26.52 CAROLYN KOSTER 31
100 M. BRST WOMEN 25-29	400 M. I.M. WOMEN 25-29	10:23.55 EILEEN HARTLE 32	1:27.00 LESLIE COOPER 33
1:16.60 S MCINTYRE-WOODS 91	5:06.34 SARA SHAND 89	1500 M. FREE WOMEN 30-34	200 M. BRST WOMEN 30-34
1:21.41 KAREN HEANEY 29	5:33.86 KAREN JACOBSON 26	17:40.50 KAREN BURTON 92	2:53.08 KAREN MELICK 87
1:22.98 TAMARA GREWENOW 25	5:42.25 SARA DEMYANOVICH 29	18:10.28 BETH KNIGHT 33	2:54.17 SUSAN RICHMOND 32
1:23.39 DEENA CROSSMORE 29	5:51.01 E.HALOUZKA 28	18:50.31 JOAN SMITH 32	2:54.86 BETH SCHEIMANN 31
1:25.09 DAWN SCHROEDER 27	5:54.54 MAUREEN JONES 29	18:51.61 AMY POPE 32	2:55.45 NANCY MITCHELL 31
1:25.41 LISA SHEEPER 29	5:57.01 MARCIA CLEVELAND 29	19:00.72 MARGUERITE MEYER 34	3:01.08 JAN GIRAD 33
1:25.56 KIRA MC DONOUGH 26	6:00.91 GLORIA NEMET 29	19:57.13 C.CHICHESTER 30	3:02.53 EVE WALTON 31
1:25.63 SARA DEMYANOVICH 29	6:09.70 DIANNE BATSON 25	20:03.60 DENISE WARE 31	3:02.64 LISA FLANAGAN 30
1:26.02 KRISTIN NELSEN 27	6:17.56 LAURIE KILMARTIN 28	20:07.14 HEIDI CHRISTENSEN 34	3:06.84 MARIA KLEIN 34
1:26.07 DIANNE BATSON 25	6:17.84 CHRISTINE WINN 27	20:24.80 PATRICIA ROHNER 33	3:09.30 S.SOTELO-OSBORNE 32
1:26.17 LIESA BENN 28	6:42.64 JONI SAITO 29	20:45.78 EILEEN HARTLE 32	3:12.32 LESLIE COOPER 33
200 M. BRST WOMEN 25-29	*****	20:53.41 BETH SCHEIMANN 31	3:15.64 BECKY WECHSLER 31
2:50.04 NANCY MITCHELL 87	50 M. FREE WOMEN 30-34	50 M. BACK WOMEN 30-34	50 M. FLY WOMEN 30-34
2:56.77 KAREN HEANEY 29	26.37 S.NEILSON-BELL 88	32.11 BETH MAUER 88	29.22 BETH HARRELL 92
3:01.18 DEENA CROSSMORE 29	27.63 BETH SCHEIMANN 31	32.76 LINDLEY DOUGHTY 34	30.40 BETH HARRELL 33
3:06.10 KRISTIN NELSEN 27	28.31 CAROL OLSON 30	32.77 ANDREA DEBUONO 30	31.02 MARY BETH DUNLEVY 30
3:07.00 KIRA MC DONOUGH 26	28.81 MARY GRACE HUBER 31	33.99 MONICA BAILEY 32	31.32 EVE WALTON 31
3:07.35 LIESA BENN 28	28.87 BETH KNIGHT 33	34.03 PAMELA BOSCOVICH 30	31.57 MONIKA DALKIN 34
3:11.78 KRISTEN DOMIS 26	28.88 MARY BETH DUNLEVY 30	34.34 C.WEINKOFSKY 32	31.69 CAROL OLSON 30
3:12.43 LINDA PORTER 26	28.90 BETH HARRELL 33	34.83 KARLYN PIPES 31	31.78 JENNIFER BARRY 31
3:14.30 JONI SAITO 29	29.02 GRACIE GODDARD 33	35.24 LIZ HOBBS 31	31.83 LINDLEY DOUGHTY 34
3:14.30 LISA HUDAK 28	29.11 C.WEINKOFSKY 32	35.46 TERI MC KEEVER 31	31.84 LIZ HOBBS 31
3:14.85 DONNA NEUMANN 29	29.23 LISA HAWK 30	36.11 BETH KNIGHT 33	31.93 MARY GRACE HUBER 31
50 M. FLY WOMEN 25-29	29.54 GINA AGUILAR 34	36.46 MARCI FLEISHMAN 30	32.01 GRACIE GODDARD 33
28.79 ROSEMARIE SEAMAN 87	100 M. FREE WOMEN 30-34	100 M. BACK WOMEN 30-34	100 M. FLY WOMEN 30-34
30.69 AMY ROE 26	58.09 S.NEILSON-BELL 88	1:09.07 ZENA HERRMANN 92	1:06.08 BETH HARRELL 92
30.69 AIMEE LEHR 26	1:00.68 BETH KNIGHT 33	1:09.79 JUDITH LALLIER 34	1:09.32 MARY BETH DUNLEVY 30
31.39 JUDITH HUPP 29	1:01.13 BETH SCHEIMANN 31	1:11.25 KARLYN PIPES 31	1:09.71 CAROL OLSON 30
31.47 CHRISSEY LAMBERT 26	1:01.30 CAROL OLSON 30	1:11.55 ANDREA DEBUONO 30	1:09.79 LINDLEY DOUGHTY 34
31.81 KAREN JACOBSON 26	1:01.91 C.WEINKOFSKY 32	1:11.95 LINDLEY DOUGHTY 34	1:10.62 NANCY MITCHELL 31
32.02 TRICIA ZORN 29	1:02.97 SUSAN PORTER 31	1:14.34 PAMELA BOSCOVICH 30	1:11.20 MONIKA DALKIN 34
32.10 SARA DEMYANOVICH 29	1:03.41 JAN GIRAD 33	1:15.13 MONICA BAILEY 32	1:11.49 LINDA TANKERSLEY 30
32.17 JENNIFER NORRIS 26	1:03.45 LEISSA MILLS 33	1:16.41 C.WEINKOFSKY 32	1:12.49 PATTY STARKS 33
32.33 E.HALOUZKA 28	1:03.88 MARY GRACE HUBER 31	1:16.65 AMY NEWELL 30	1:12.50 KARLYN PIPES 31
32.44 SUSAN AUGUSTUS 26	1:04.26 BETH HARRELL 33	1:17.22 C.CHICHESTER 30	1:12.62 GRACIE GODDARD 33
100 M. FLY WOMEN 25-29	1:04.43 LORI PAYNE 34	1:17.55 ROBIN BELCHER 31	1:12.75 AMY POPE 32
1:03.91 ROSEMARIE SEAMAN 87	200 M. FREE WOMEN 30-34	200 M. BACK WOMEN 30-34	200 M. FLY WOMEN 30-34
1:09.15 KAREN JACOBSON 26	2:07.84 BETH KNIGHT 89	2:26.99 ZENA HERRMANN 92	2:27.54 KAREN BURTON 92

TOP TEN

Long Course Meters

2:32.24 NANCY MITCHELL 31	4:33.08 SUSAN HALFACRE 88	34.41 L WETZEL-OSBORNE 89	2:36.67 S NEILSON-BELL 93
2:38.59 PATTY STARKS 33	4:46.43 SUZANNE HEIM 35	38.07 JANE ROBIE 35	2:36.67 S.NEILSON-BELL 37
2:42.32 ROBIN BELCHER 31	4:59.93 KATHERINE BRANCH 36	39.34 DONNA NEARY 37	2:41.85 DONNA NEARY 37
2:45.18 NANCY LEWIS 34	5:00.26 S.NIELSON-BELL 37	39.39 EILEEN WALL 35	2:45.82 DIANA DOLAN-EVANS 35
2:45.21 STEPHANIE PORTER 31	5:06.11 MARCIA BENJAMIN 36	39.51 HUDDIE MURRAY 36	2:46.22 JOAN PFINSGRAFF 39
2:48.53 TERI MC KEEVER 31	5:06.62 HUDDIE MURRAY 36	39.90 KATIE MCNAMARA 38	2:47.17 PATTY LANDERS 36
2:49.65 KARIN DECK 30	5:06.77 DIANA DOLAN-EVANS 35	40.10 MARY JACKSON 37	2:47.38 HUDDIE MURRAY 36
2:54.30 LEZLIE GRUENLER 30	5:10.94 CATHERINE CHAY 38	40.34 NANCY EHRKE 39	2:49.88 CATHY COOLEY 35
2:59.67 DENISE BROWN 33	5:13.49 MARY HAMILTON 38	40.39 RHIAN GULASSA 38	2:51.37 CYNTHIA MALTRY 38
3:03.79 ROZANNA MILLER 33	5:13.51 SARAH EICHER 37	40.68 ELAINE FONG 35	2:52.42 CATHERINE CHAY 38
200 M. I.M. WOMEN 30-34	5:13.77 KATHI BULLOCK 39	40.86 PATRICIA CHAPPELL 39	2:53.55 NANCY RENO 37
2:28.63 JUDITH LALLIER 93	800 M. FREE WOMEN 35-39	100 M. BRST WOMEN 35-39	400 M. I.M. WOMEN 35-39
2:28.63 JUDITH LALLIER 34	9:24.54 SUSAN HALFACRE 88	1:17.44 L WETZEL-OSBORNE 90	5:34.47 KAREN FARNSWORTH 92
2:29.17 SUSAN PORTER 31	10:03.25 SUZANNE HEIM 35	1:24.33 EILEEN WALL 35	5:41.75 HUDDIE MURRAY 36
2:35.25 KARLYN PIPES 31	10:20.74 KATHERINE BRANCH 36	1:27.20 JANE ROBIE 35	5:46.49 SUZANNE HEIM 35
2:35.62 JAN GIRAD 33	10:25.02 DIANA DOLAN-EVANS 35	1:27.45 S.NIELSON-BELL 37	5:52.11 DIANA DOLAN-EVANS 35
2:39.09 ANDREA DEVIUONO 30	10:27.80 S.NIELSON-BELL 37	1:28.41 DIANA DOLAN-EVANS 35	5:58.67 CATHERINE CHAY 38
2:40.30 C.CHICHESTER 30	10:35.00 MARCIA BENJAMIN 36	1:28.65 RHIAN GULASSA 38	6:08.10 EILEEN WALL 35
2:42.13 LORI PAYNE 34	10:37.68 HUDDIE MURRAY 36	1:29.11 HUDDIE MURRAY 36	6:09.58 KATHI BULLOCK 39
2:42.84 BETH SCHIEMANN 31	10:46.17 SARAH EICHER 37	1:29.12 CAROLE SHIGAKI 38	6:15.32 LAURA WORDEN 35
2:43.13 AMY POPE 32	10:51.36 KARLENE WISE 39	1:29.33 DONNA NEARY 37	6:26.81 TERI HENDRYX 39
2:43.34 BETH HARRELL 33	10:54.32 DONNA NEARY 37	1:29.78 KATHLEEN PEARSON 35	6:27.11 B.K. NICHOLS 36
400 M. I.M. WOMEN 30-34	10:56.56 KATHI BULLOCK 39	1:30.53 ELAINE FONG 35	*****
5:11.39 KAREN BURTON 92	1500 M. FREE WOMEN 35-39	200 M. BRST WOMEN 35-39	50 M. FREE WOMEN 40-44
5:31.38 JAN GIRAD 33	18:12.11 SUSAN HALFACRE 87	2:53.64 KAREN MELICK 92	28.05 LAURA VAL 92
5:34.27 ANDREA DEVIUONO 30	18:34.79 SUZANNE HEIM 35	3:03.60 EILEEN WALL 35	28.25 LAURA VAL 41
5:40.57 NANCY MITCHELL 31	19:59.90 HUDDIE MURRAY 36	3:03.84 DONNA NEARY 37	28.81 CATHY HESSION 40
5:46.32 SUSAN RICHMOND 32	20:02.83 DIANA DOLAN-EVANS 35	3:04.67 DIANA DOLAN-EVANS 35	29.28 C.STONESIFER 40
5:49.29 STEPHANIE PORTER 31	20:31.78 CATHERINE CHAY 38	3:08.52 HUDDIE MURRAY 36	30.06 R.BRITTINGHAM 42
5:52.07 ROBIN BELCHER 31	20:41.53 KARLENE WISE 39	3:10.97 JANE ROBIE 35	30.14 TRACY ARNDT 41
5:54.03 C.CHICHESTER 30	20:49.82 MARCIA BENJAMIN 36	3:12.43 RHIAN GULASSA 38	30.36 D. OGIER-POLLARD 40
5:55.62 MARGUERITE MEYER 34	21:16.66 KATHI BULLOCK 39	3:14.19 CAROLE SHIGAKI 36	30.92 CYNTHIA JONES 43
5:56.53 MONICA BAILEY 32	21:31.76 MAGGIE HOPPER 36	3:14.83 KATHLEEN PEARSON 35	31.32 VALERIE DUNN 43
5:57.70 LORI SCHMIDT 30	21:37.97 ROXAN ANDERES 37	3:17.74 NANCY EHRKE 39	31.49 CELESTE MILLER 43
*****	21:39.00 KRIS WINGENROTH 39	3:18.68 MARY CHRIS CURL 36	31.53 DEBORAH WALKER 42
50 M. FREE WOMEN 35-39	50 M. BACK WOMEN 35-39	50 M. FLY WOMEN 35-39	100 M. FREE WOMEN 40-44
26.89 S.NEILSON-BELL 93	32.39 LAURA VAL 90	29.27 SUSAN HALFACRE 88	1:02.24 LAURA VAL 93
26.89 S.NEILSON-BELL 37	33.83 PATTY LANDERS 36	30.43 MARIA VELIKONJA 35	1:02.24 LAURA VAL 41
29.99 MARCIA BENJAMIN 36	34.32 JOAN PFINSGRAFF 39	30.49 S.NEILSON-BELL 37	1:05.37 BONNIE ADAIR 40
30.09 TERRI HOPPENRATH 36	35.06 TERRY NIESZNER 38	32.27 THERESA VILLA 35	1:05.64 MARYANN STEVENS 40
30.28 KARLENE WISE 39	35.33 NANCY RENO 37	32.52 DEBBIE FLANSBURG 37	1:06.09 D.OGIER-POLLARD 40
30.34 BARBARA HELD 39	35.38 CINDY ANDERSON 36	32.65 BARBARA CROWDER 36	1:06.39 C.STONESIFER 40
30.42 TERRY NIESZNER 38	35.70 CAROLE SHIGAKI 38	33.19 CAROLE SHIGAKI 38	1:07.76 CELESTE MILLER 43
30.43 MARILYN EARLY 35	35.99 S.NIELSON-BELL 37	33.47 CYNTHIA MALTRY 38	1:08.47 BARBARA DUNBAR 44
30.46 MARY JACKSON 37	36.16 SUSAN ROESCH 35	33.70 KIMBERLY WISE 36	1:08.88 CYNTHIA JONES 43
30.50 KIMBERLY WISE 36	36.52 MARILYN S FINK 38	33.81 TERRI HOPPENRATH 36	1:10.04 TRACY ARNDT 41
30.65 MARY HAMILTON 38	36.55 CYNTHIA MALTRY 38	33.84 LAURA WORDEN 35	1:10.79 DEBORAH WALKER 41
100 M. FREE WOMEN 35-39	100 M. BACK WOMEN 35-39	100 M. FLY WOMEN 35-39	200 M. FREE WOMEN 40-44
1:00.25 SUSAN HALFACRE 88	1:10.94 LAURA VAL 89	1:05.39 SUSAN HALFACRE 88	2:17.01 LAURA VAL 93
1:00.55 S.NEILSON-BELL 37	1:12.72 PATTY LANDERS 36	1:08.56 MARIA VELIKONJA 35	2:17.01 LAURA VAL 41
1:05.40 MARIA VELIKONJA 35	1:14.85 JOAN PFINSGRAFF 39	1:09.86 DEBBIE FLANSBURG 37	2:22.08 D.OGIER-POLLARD 40
1:05.83 BARBARA CROWDER 36	1:16.11 NANCY RENO 37	1:12.93 HUDDIE MURRAY 36	2:25.92 BARBARA DUNBAR 44
1:06.03 KARLENE WISE 39	1:17.75 CAROLE SHIGAKI 38	1:13.27 S.NIELSON-BELL 37	2:26.02 CELESTE MILLER 43
1:06.28 TERRI HOPPENRATH 36	1:18.44 KATHERINE BRANCH 36	1:13.48 SUZANNE HEIM 35	2:26.49 MARYANN STEVENS 40
1:06.77 SUSAN ROESCH 35	1:18.58 MARILYN EARLY 35	1:14.41 LAURIE ALIOTO 35	2:28.41 HEIDI ERNST 40
1:06.89 MARCIA BENJAMIN 36	1:18.70 CINDY ANDERSON 36	1:16.39 LAURA WORDEN 35	2:30.35 JONELLE SCHMIDT 42
1:07.35 KATHERINE BRANCH 36	1:18.85 LAURIE ALIOTO 35	1:16.51 B.K. NICHOLS 36	2:34.23 CYNTHIA JONES 43
1:07.79 MARY HAMILTON 38	1:19.53 SUSAN ROESCH 35	1:16.68 JULIE D'AMBROSIA 37	2:37.72 SHERRY KITTRELL 41
1:07.99 SARAH EICHER 37	1:19.83 CYNTHIA MALTRY 38	1:19.46 BARBARA HELD 39	2:40.84 TRACY ARNDT 41
200 M. FREE WOMEN 35-39	200 M. BACK WOMEN 35-39	200 M. FLY WOMEN 35-39	400 M. FREE WOMEN 40-44
2:09.33 SUSAN HALFACRE 88	2:35.44 KAREN FARNSWORTH 92	2:26.38 LAURA VAL 89	4:54.49 BARBARA DUNBAR 90
2:16.49 S.NEILSON-BELL 37	2:37.70 PATTY LANDERS 36	2:35.66 DEBBIE FLANSBURG 37	4:49.98 LAURA VAL 41NV
2:20.63 SUZANNE HEIM 35	2:41.93 KATHERINE BRANCH 36	2:37.83 MARIA VELIKONJA 35	5:00.90 BARBARA DUNBAR 44
2:22.90 MARIA VELIKONJA 35	2:49.56 LAURIE ALIOTO 35	2:38.23 SUZANNE HEIM 35	5:03.70 D.OGIER-POLLARD 40
2:24.67 MARCIA BENJAMIN 36	2:50.81 KARLENE WISE 39	2:39.96 HUDDIE MURRAY 36	5:08.59 CELESTE MILLER 43
2:25.15 KATHERINE BRANCH 36	2:51.20 MARILYN EARLY 35	2:45.30 LAURIE ALIOTO 35	5:10.11 HEIDI ERNST 40
2:25.25 DIANA DOLAN-EVANS 35	2:51.64 NANCY RENO 37	2:51.21 B.K. NICHOLS 36	5:11.63 MARYANN STEVENS 40
2:26.59 SARAH EICHER 37	2:52.20 JEAN RUEFF 35	2:53.24 KRIS WINGENROTH 39	5:25.06 GAYLE BENTY 40
2:26.97 MARY HAMILTON 38	2:54.04 NANCY BROWN 37	2:54.98 LAURA WORDEN 35	5:27.24 CYNTHIA JONES 43
2:27.81 MARILYN EARLY 35	2:55.56 M. PUJALET DEVITT 36	2:59.03 M. PUJALET DEVITT 36	5:34.94 SHARON ODELL 40
2:27.89 DEBBIE FLANSBURG 37	2:57.48 CYNTHIA MALTRY 38	3:00.03 JOANNE WAINWRIGHT 37	5:35.04 SHERRY KITTRELL 41
400 M. FREE WOMEN 35-39	50 M. BRST WOMEN 35-39	200 M. I.M. WOMEN 35-39	

TOP TEN

Long Course Meters

800 M. FREE WOMEN 40-44	100 M. BRST WOMEN 40-44	400 M. I.M. WOMEN 40-44	12:51.14 VICKI BUCCINO 47
9:57.69 LAURA VAL 93	1:21.73 DEBORAH WALKER 91	5:39.70 LAURA VAL 93	1500 M. FREE WOMEN 45-49
9:57.69 LAURA VAL 41	1:23.53 GAYLE BENTY 40	5:39.70 LAURA VAL 41	21:08.30 ARDETH MUELLER 87
10:11.15 BARBARA DUNBAR 44	1:24.23 DEBORAH WALKER 41	5:46.06 D.OGIER-POLLARD 41	21:40.75 SALLY DILLON 46
10:28.96 D.OGIER-POLLARD 40	1:25.52 A.WRIGHT-BELKNAP 42	5:49.22 MARYANN STEVENS 40	23:33.31 PAT WHITE MALEY 49
10:35.18 CELESTE MILLER 43	1:26.16 KRISSY MACCUDY 41	5:51.88 CATHERINE KOHN 40	24:35.48 MARY POHLMAN 48
10:44.61 HEIDI ERNST 40	1:27.41 CATHERINE KOHN 40	5:54.50 ELLEN ROBERTS 40	25:01.58 JUDY GILLIES 45
11:07.64 GAYLE BENTY 40	1:31.07 JAN TRUCHAN 40	6:01.35 BARBARA DUNBAR 44	25:09.05 RUTH PETERSON 47
11:18.50 SHERRY KITTRELL 41	1:31.68 TERI HENDRYX 40	6:06.42 KRISSY MACCUDY 41	25:09.10 VICKI BUCCINO 47
11:19.15 LINDSAY POWELL 40	1:32.28 PATRICIA MATTSON 40	6:11.76 DENISE EVERITT 40	25:22.51 KATHY CONTE 46
11:31.03 CATHY MANCINO 43	1:33.15 MEEGAN WILSON 44	6:22.66 JUDY STEFANICK 42	26:59.41 LOIS GOODMAN 46
11:44.02 PATRICIA MATTSON 40	1:37.06 M.BETH WINDRATH 40	6:29.77 DIANNE GARCIA 42	27:05.96 PENNY POTTER 45
1500 M. FREE WOMEN 40-44	200 M. BRST WOMEN 40-44	*****	27:34.38 ANN FREDETTE 48
19:00.40 BARBARA DUNBAR 92	2:59.24 GAYLE BENTY 93	50 M. FREE WOMEN 45-49	50 M. BACK WOMEN 45-49
19:31.42 BARBARA DUNBAR 44	2:59.24 GAYLE BENTY 40	29.08 ARDETH MUELLER 87	37.43 MIMI FRANK 92
20:11.62 D.OGIER-POLLARD 40	3:04.44 DEBORAH WALKER 42	30.17 CAROLYN BOAK 48	37.51 MIMI FRANK 46
20:21.73 HEIDI ERNST 40	3:06.81 CATHERINE KOHN 40	31.16 LUCY JOHNSON 46	39.85 JEANNIE MITCHELL 46
20:53.78 DENISE EVERITT 40	3:08.75 KRISSY MACCUDY 41	31.29 SHARON WISE 46	40.63 MARY POHLMANN 48
21:16.24 GAYLE BENTY 40	3:14.50 A.WRIGHT-BELKNAP 42	31.31 F.WILLIAMSON 45	40.77 LINDA MCHENRY 46
21:34.16 SHERRY KITTRELL 41	3:20.11 MELISSA HANSON 40	31.57 ANNE PAGE 45	41.02 F.WILLIAMSON 45
21:48.60 WENDY CIMARNO 40	3:20.32 TERI HENDRYX 40	31.60 ANNE SAWICKI 45	41.63 B.EDELMAIER 46
22:02.91 GAIL GREENWOOD 41	3:20.49 DENISE EVERITT 40	32.02 LINDA MCHENRY 46	41.74 GINGER PIERSON 47
22:18.25 CYNTHIA JONES 43	3:22.31 MEEGAN WILSON 44	32.17 ANN LYTTLE 45	42.24 SUSAN COOLIDGE 46
22:45.39 LAURA CALWELL 43	3:22.32 PATRICIA MATTSON 40	32.50 LYNN CARTEE 46	43.19 MONIKA HUNSCHER 45
50 M. BACK WOMEN 40-44	50 M. FLY WOMEN 40-44	32.60 IRENE DAVID 49	43.39 DONNA DUNN 45
32.42 LAURA VAL 92	30.13 LAURA VAL 92	100 M. FREE WOMEN 45-49	100 M. BACK WOMEN 45-49
32.76 LAURA VAL 41	30.39 LAURA VAL 41	1:05.44 ARDETH MUELLER 87	1:21.04 BETSY JORDAN 82
33.47 CATHY HESSION 40	31.37 MARYANN STEVENS 40	1:08.59 CAROLYN BOAK 48	1:25.28 CHRISTINE ZIMMET 45
35.64 C.STONESIFER 40	31.45 BONNIE ADAIR 40	1:09.52 LUCY JOHNSON 46	1:26.38 RUTH SHAPS 45
36.25 ANN GUINS 40	32.07 CATHY HESSION 40	1:09.61 F.WILLIAMSON 45	1:26.71 JEANNIE MITCHELL 46
36.43 JUDY STEFANICK 42	32.55 C.STONESIFER 40	1:10.11 SHARON WISE 46	1:29.22 LINDA MCHENRY 46
37.37 CATHERINE KOHN 40	33.07 KRISSY MACCUDY 41	1:10.95 ANN LYTTLE 45	1:29.42 MARY POHLMANN 48
37.49 DEBORAH WALKER 42	34.10 R.BRITTINGHAM 42	1:11.57 SALLY DILLON 46	1:29.78 GINGER PIERSON 47
37.77 MARYANN STEVENS 40	34.18 BARBARA DUNBAR 44	1:12.01 LINDA MCHENRY 46	1:33.49 BARBARA LARSEN 45
37.89 TRACY ARNDT 41	34.65 SUSAN MARINZEL 40	1:14.09 KRISTINA KING 45	1:34.44 MONIKA HUNSCHER 45
39.89 DIANNE GARCIA 42	34.65 SUZANNE COOPER 43	1:15.18 IRENE DAVID 49	1:36.77 DONNA DUNN 45
100 M. BACK WOMEN 40-44	100 M. FLY WOMEN 40-44	1:16.62 RUTH BENNETT 46	1:36.77 CHRIS GILLIGAN 49
1:11.03 LAURA VAL 92	1:06.27 LAURA VAL 92	200 M. FREE WOMEN 45-49	200 M. BACK WOMEN 45-49
1:16.42 MARYANN STEVENS 40	1:07.57 LAURA VAL 41	2:24.24 ARDETH MUELLER 87	2:56.28 ARDETH MUELLER 86
1:19.23 JUDY STEFANICK 42	1:11.24 MARYANN STEVENS 40	2:31.46 CAROLYN BOAK 48	3:06.00 MIMI FRANK 46
1:19.87 CATHERINE KOHN 40	1:13.95 BARBARA DUNBAR 44	2:33.58 LUCY JOHNSON 46	3:07.24 CHRISTINE ZIMMET 45
1:21.48 ANN GUINS 40	1:14.12 KRISSY MACCUDY 41	2:34.45 ANN LYTTLE 45	3:09.14 MARY POHLMANN 48
1:22.52 JANELLE SCHMIDT 42	1:16.17 DENISE EVERITT 40	2:36.30 SALLY DILLON 46	3:13.10 LINDA MCHENRY 46
1:23.69 DEBORAH WALKER 42	1:17.39 SUSIE CHANDLER 42	2:36.92 F.WILLIAMSON 45	3:13.98 GINGER PIERSON 47
1:24.77 TRACY ARNDT 41	1:19.94 R.BRITTINGHAM 42	2:37.37 KRISTINA KING 45	3:14.49 JEANNIE MITCHELL 46
1:27.83 SHARON ODELL 40	1:21.29 TERI HENDRYX 40	2:51.34 RUTH BENNETT 46	3:22.23 BARBARA LARSEN 46
1:28.57 S.LEE-SHERIDAN 41	1:22.70 JUDY STEFANICK 42	2:52.59 BARBARA LARSEN 45	3:25.38 ANN SVANSON 47
1:30.41 CHRIS SCHROEDER 44	1:24.86 CAROL BROWN 40	2:53.78 JANET GETTLING 45	3:25.65 MONIKA HUNSCHER 45
200 M. BACK WOMEN 40-44	200 M. FLY WOMEN 40-44	2:55.58 PAT WHITE MALEY 49	3:29.50 CHRIS GILLIGAN 49
2:44.00 LAURA VAL 93	2:33.51 BARBARA DUNBAR 89	400 M. FREE WOMEN 45-49	50 M. BRST WOMEN 45-49
2:44.00 LAURA VAL 41	2:40.11 MARYANN STEVENS 40	5:08.67 ARDETH MUELLER 87	39.20 CAROLYN BOAK 92
2:47.96 ELLEN ROBERTS 40	2:40.52 BARBARA DUNBAR 44	5:26.78 ANN LYTTLE 45	39.21 CAROLYN BOAK 48
2:48.01 CATHY HESSION 40	2:54.71 DENISE EVERITT 40	5:29.01 SALLY DILLON 46	41.50 GINGER PIERSON 47
2:49.02 MARYANN STEVENS 40	3:03.72 CATHY MANCINO 43	5:29.72 F.WILLIAMSON 45	43.01 SUSAN COOLIDGE 46
2:50.21 JUDY STEFANICK 42	3:13.56 TERI HENDRYX 40	5:29.85 KRISTINA KING 45	43.26 LYNN CARTEE 46
2:51.52 CATHERINE KOHN 40	3:21.98 R.BRITTINGHAM 42	5:32.02 CAROLYN BOAK 48	43.58 ANN LYTTLE 45
2:55.57 JONELLE SCHMIDT 42	3:39.60 CATHERINE BROOKS 44	5:42.81 ANNE PAGE 45	43.64 JANET GETTLING 45
3:06.23 DIANNE GARCIA 42	3:47.90 DEBBIE UTZ 40	5:53.82 LYNN CARTEE 46	43.65 CANDY CHRISTENSON 46
3:12.93 PATRICIA MATTSON 40	3:59.16 LAURA MELDRUM 40	6:04.95 PAT WHITE MALEY 49	44.13 SALLY DILLON 46
3:16.95 CATHERINE BROOKS 44	4:01.48 FRANCIS SHEPHERD 44	6:15.65 RUTH BENNETT 46	44.59 MARGOT PETTIJOHN 47
50 M. BRST WOMEN 40-44	200 M. I.M. WOMEN 40-44	6:16.39 VICKI BUCCINO 47	44.89 SHIRLEY KING 46
37.02 A WRIGHT-BELKNAP 92	2:38.20 LAURA VAL 93	800 M. FREE WOMEN 45-49	100 M. BRST WOMEN 45-49
37.60 A.WRIGHT-BELKNAP 42	2:38.20 LAURA VAL 41	10:48.41 ARDETH MUELLER 87	1:26.28 CAROLYN BOAK 92
38.48 DEBORAH WALKER 42	2:40.97 CATHERINE KOHN 40	11:25.92 KRISTINA KING 45	1:28.20 CAROLYN BOAK 48
38.62 GAYLE BENTY 40	2:42.09 D. OGIER-POLLARD 40	11:39.49 ANN LYTTLE 45	1:33.02 GINGER PIERSON 47
39.98 KRISSY MACCUDY 41	2:43.16 MARYANN STEVENS 40	11:47.99 SALLY DILLON 46	1:33.03 SALLY DILLON 46
40.00 C.STONESIFER 40	2:46.38 CATHY HESSION 40	11:56.65 LUCY JOHNSON 46	1:33.49 SUSAN COOLIDGE 46
40.53 CATHERINE KOHN 40	2:47.04 BONNIE ADAIR 40	12:20.09 CHRISTINE ZIMMET 45	1:36.04 LYNN CARTEE 46
42.62 SUZANNE COOPER 43	2:49.88 CELESTE MILLER 43	12:27.10 ANN SVANSON 47	1:41.49 MARY THOMAS 46
42.64 MEEGAN WILSON 44	2:49.91 KRISSY MACCUDY 41	12:31.00 PAT WHITE MALEY 49	1:42.17 CANDY CHRISTENSON 46
42.87 PATRICIA MATTSON 40	2:51.30 BARBARA DUNBAR 44	12:36.54 MARY POHLMANN 48	1:43.45 SHIRLEY KING 46
43.41 KATHRINE CASEY 44	2:52.63 JONELLE SCHMIDT 42	12:36.93 MARILYN RICHISON 45	1:45.91 CHRIS GILLIGAN 49

TOP TEN

Long Course Meters

1:46.54 HEIDI BOERSTISE 46	8:11.71 KATE SUTHERLAND 45	25:36.48 JOANN LEILICH 54	3:59.68 EVELYN SINAI 53
200 M. BRST WOMEN 45-49	*****	25:36.64 CHARLOTTE JENKINS 54	4:02.74 ROSWITA NORRIS 50
3:09.19 CAROLYN BOAK 92	50 M. FREE WOMEN 50-54	50 M. BACK WOMEN 50-54	50 M. FLY WOMEN 50-54
3:14.63 CAROLYN BOAK 48	29.33 ARDETH MUELLER 93	37.62 BETSY JORDAN 91	31.69 ARDETH MUELLER 93
3:22.71 GINGER PIERSON 47	29.33 ARDETH MUELLER 52	38.05 BETTY BENNETT 50	31.69 ARDETH MUELLER 52
3:24.29 SALLY DILLON 46	31.21 NANCY RIDOUT 51	41.28 BARBARA FRID 51	35.14 NANCY RIDOUT 51
3:38.46 SHIRLEY KING 46	32.51 ARLENE PROEBSTING 50	41.82 JANE KATZ 50	35.67 SARAH BROUGHER 51
3:41.37 TRUDY ASHWORTH 46	33.66 CAROL JEWELL 50	41.99 NANCY KIRKENDALL 50	37.16 MARSHA SOUCHERAY 52
3:41.96 PAMELA HIMSTREET 49	33.92 NANCY KIRKENDALL 50	42.64 SARAH BROUGHER 51	37.62 BARBARA FRID 51
3:42.85 MARGOT PETTIJOHN 47	34.79 NANCY BROOKS 50	42.90 BETSY DURRANT 51	39.65 JAYNE LAMBKE 53
3:43.06 MARY THOMAS 46	34.82 MARY ANDERSON 51	43.41 JUDY DECKER 51	39.89 CAROL JEWELL 50
3:49.30 LINDA TEPE 46	35.77 JANE KATZ 50	43.48 CAROL LAIRD 51	40.18 JANE KATZ 50
3:49.89 WINIFRED PRALL 45	36.00 SUE CALNEK 50	45.33 NANCY BROOKS 50	41.32 CHARLOTTE JENKINS 54
50 M. FLY WOMEN 45-49	37.86 MARGARET VANEVERY 52	45.75 CEIL BLACKWELL 53	43.91 JOANN LEILICH 54
30.74 ARDETH MUELLER 87	100 M. FREE WOMEN 50-54	100 M. BACK WOMEN 50-54	100 M. FLY WOMEN 50-54
33.70 LUCY JOHNSON 46	1:07.42 ARDETH MUELLER 92	1:23.29 BETSY JORDAN 91	1:13.86 ARDETH MUELLER 93
34.26 SHARON WISE 46	1:07.95 ARDETH MUELLER 52	1:23.87 BETTY BENNETT 50	1:13.86 ARDETH MUELLER 52
34.70 CAROLYN BOAK 48	1:11.78 NANCY RIDOUT 51	1:25.61 ARDETH MUELLER 52	1:23.74 NANCY RIDOUT 51
34.87 IRENE DAVID 49	1:16.31 ARLENE PROEBSTING 50	1:27.37 SARAH BROUGHER 51	1:29.43 MARSHA SOUCHERAY 52
35.22 ANNE PAGE 45	1:16.40 NANCY KIRKENDALL 50	1:30.58 NANCY KIRKENDALL 50	1:35.85 JANE LAMBKE 53
36.21 LINDA MCHENRY 46	1:17.28 JAYNE LAMBKE 53	1:30.98 JANE KATZ 50	1:49.36 SUE JEWELL 50
36.32 SANDI ROUSSEAU 45	1:18.60 JANE KATZ 50	1:31.24 BARBARA FRID 51	1:50.16 SALLY BOLAR 54
36.61 B. EDELMAIER 46	1:19.72 SUE CALNEK 50	1:32.75 BETSY DURRANT 51	1:51.00 JANE KATZ 50
37.93 F. WILLIAMSON 45	1:20.22 BARBARA FRID 51	1:35.32 JUDY DECKER 51	1:55.98 ELIZABETH JOHNSON 54
38.47 KRISTINA KING 45	1:21.43 MARY ANDERSON 51	1:36.86 SUZY CARLSON 51	1:56.79 MARY ANN MC CLAIN 52
100 M. FLY WOMEN 45-49	1:22.53 MARY ANN MC CLAIN 52	1:38.60 SUSAN LIVINGSTON 54	1:58.94 JEANNINE OLSON 53
1:12.67 ARDETH MUELLER 87	200 M. FREE WOMEN 50-54	200 M. BACK WOMEN 50-54	200 M. FLY WOMEN 50-54
1:19.03 LUCY JOHNSON 46	2:29.22 ARDETH MUELLER 93	3:01.07 BETSY JORDAN 87	2:49.53 ARDETH MUELLER 91
1:22.71 RUTH SHAPS 45	2:29.22 ARDETH MUELLER 52	3:02.51 ARDETH MUELLER 52	2:51.28 ARDETH MUELLER 52
1:24.10 IRENE DAVID 49	2:40.35 NANCY RIDOUT 51	3:02.65 BETTY BENNETT 50	3:19.66 JACKIE MARR 50
1:25.49 KRISTINA KING 45	2:41.05 JACKIE MARR 50	3:08.43 JACKIE MARR 50	3:23.07 MARSHA SOUCHERAY 52
1:27.13 SANDI ROUSSEAU 45	2:44.06 JANE KATZ 50	3:08.56 SARAH BROUGHER 51	3:29.19 JANE KATZ 50
1:33.67 GINGER PIERSON 47	2:51.59 JAYNE LAMBKE 53	3:13.56 JANE KATZ 50	3:34.12 ELAINE BROMWICH 50
1:34.94 KRISTI LOONEY 45	2:51.81 SARAH BROUGHER 51	3:19.42 NANCY KIRKENDALL 50	3:35.10 NANCY RIDOUT 51
1:35.10 BARBARA LARSEN 46	2:52.58 MARY ANDERSON 51	3:21.81 JUDY DECKER 51	3:44.84 SUSAN LIVINGSTON 54
1:37.16 LINDA MCHENRY 46	2:57.41 NANCY KIRKENDALL 50	3:31.30 SUSAN LIVINGSTON 54	4:01.45 PAT WHITE MALEY 50
1:42.22 LINDA TEPE 46	3:00.13 ARLENE PROEBSTING 50	3:31.41 MARYLOU SCHULZ 53	4:09.18 SALLY BOLAR 54
200 M. FLY WOMEN 45-49	3:00.30 BETSY DURRANT 51	3:33.50 CAROL LAIRD 51	4:11.28 ELIZABETH JOHNSON 54
2:44.10 ARDETH MUELLER 87	400 M. FREE WOMEN 50-54	50 M. BRST WOMEN 50-54	200 M. I.M. WOMEN 50-54
3:20.15 CHRISTINE ZIMMET 45	5:16.62 ARDETH MUELLER 91	40.22 JAYNE BRUNER 86	2:54.57 ARDETH MUELLER 91
3:22.78 BARBARA LARSEN 46	5:20.22 ARDETH MUELLER 52	40.94 ELAINE BROMWICH 50	2:57.93 ARDETH MUELLER 52
3:23.02 GINGER PIERSON 47	5:43.22 JANE KATZ 50	42.41 JOANN LEILICH 54	3:03.82 JACKIE MARR 50
3:29.32 IRENE DAVID 49	5:57.88 NANCY RIDOUT 51	43.66 SANDY CATTARIN 54	3:06.56 SARAH BROUGHER 51
3:37.78 EDITH JACOBSEN 45	5:58.92 PAT WHITE MALEY 50	44.01 NANCY BROOKS 50	3:07.27 BETTY BENNETT 50
3:38.81 KRISTI LOONEY 45	6:01.93 MARY ANDERSON 51	44.62 BETSY DURRANT 51	3:14.49 NANCY RIDOUT 51
3:43.58 MARY POHLMAN 48	6:07.09 BARBARA FRID 51	47.00 MARSHA SOUCHERAY 52	3:18.44 JANE KATZ 50
3:54.04 NANCY KRANPITZ 48	6:08.48 JAYNE LAMBKE 53	47.13 JUDY DECKER 51	3:20.72 JOANN LEILICH 54
3:56.11 SUZANNE ANGIOLI 45	6:15.85 NANCY KIRKENDALL 50	48.81 MARGARET VANEVERY 52	3:24.41 JUDY DECKER 51
3:59.37 VICKI BUCCINO 47	6:30.46 SUE CALNEK 50	49.40 ELIZABETH JOHNSON 54	3:25.83 JAYNE LAMBKE 53
200 M. I.M. WOMEN 45-49	6:38.21 JUDY DECKER 51	50.72 FRANCESCA DRUM 51	3:32.19 PAT WHITE MALEY 50
2:46.91 ARDETH MUELLER 87	800 M. FREE WOMEN 50-54	100 M. BRST WOMEN 50-54	400 M. I.M. WOMEN 50-54
2:55.67 CAROLYN BOAK 48	10:58.47 ARDETH MUELLER 91	1:28.83 JOANN LEILICH 90	6:12.08 ARDETH MUELLER 92
3:06.07 RUTH SHAPS 45	11:02.86 ARDETH MUELLER 52	1:29.66 ELAINE BROMWICH 50	6:15.29 ARDETH MUELLER 52
3:08.19 MIMI FRANK 46	11:45.89 JANE KATZ 50	1:33.44 JOANN LEILICH 54	6:37.12 JACKIE MARR 50
3:08.67 LYNN CARTEE 46	11:53.47 NANCY RIDOUT 51	1:37.23 NANCY BROOKS 50	6:47.90 BETTY BENNETT 50
3:11.46 GINGER PIERSON 47	12:18.34 BARBARA FRID 51	1:39.25 CAROL LAIRD 51	6:48.95 JANE KATZ 50
3:17.59 BARBARA LARSEN 46	12:23.20 SARAH BROUGHER 51	1:40.32 BETSY DURRANT 51	6:51.97 ELAINE BROMWICH 50
3:18.44 JEANNIE MITCHELL 46	12:37.87 JAYNE LAMBKE 53	1:41.77 BARBARA FRID 51	7:22.23 JUDY DECKER 51
3:21.64 JEAN HENDERSON 46	12:52.69 NANCY KIRKENDALL 50	1:44.97 MARSHA SOUCHERAY 52	7:26.49 PAT WHITE MALEY 50
3:26.24 MARY POHLMAN 48	13:19.21 CHARLOTTE JENKINS 54	1:46.29 JUDY DECKER 51	8:16.44 INGRID STINE 54
3:33.50 KRISTI LOONEY 45	13:34.99 ARLENE PROEBSTING 50	1:47.12 MARGARET VANEVERY 52	8:26.84 ROSWITA NORRIS 50
400 M. I.M. WOMEN 45-49	13:55.47 SUSAN SPRINGER 54	1:49.69 ELIZABETH JOHNSON 54	8:40.70 PATRICIA ARNOLD 54
5:54.98 ARDETH MUELLER 87	1500 M. FREE WOMEN 50-54	200 M. BRST WOMEN 50-54	*****
6:17.33 CAROLYN BOAK 48	21:02.46 ARDETH MUELLER 91	3:15.51 ELAINE BROMWICH 93	50 M. FREE WOMEN 55-59
6:40.54 ANNE PAGE 45	21:10.78 ARDETH MUELLER 52	3:15.51 ELAINE BROMWICH 50	32.59 JAYNE BRUNER 91
6:47.76 GINGER PIERSON 47	21:44.92 JANE KATZ 50	3:20.46 JOANN LEILICH 54	34.32 BARBARA ZAREMSKI 56
7:09.58 MARY POHLMANN 48	22:41.28 NANCY RIDOUT 51	3:35.36 BETSY DURRANT 51	34.96 JOHNNIE DETRICK 57
7:12.05 EDITH JACOBSEN 45	23:06.07 PAT WHITE MALEY 50	3:40.93 NANCY BROOKS 50	35.76 DIANE STOWELL 58
7:23.73 PAT WHITE MALEY 49	23:23.95 MARY ANDERSON 51	3:45.71 JUDY DECKER 51	35.86 BETSY JORDAN 56
7:26.19 RUTH PETERSON 47	23:53.50 JAYNE LAMBKE 53	3:51.20 FRANCESCA DRUM 51	36.33 MARGIE HEINEMAN 56
7:34.45 KRISTI LOONEY 45	25:26.70 JOAN JETER 53	3:51.98 ELIZABETH JOHNSON 54	36.41 JEANNE LITTLE 56
8:11.55 LOIS GOODMAN 46	25:32.01 NANCY KIRKENDALL 50	3:53.10 MARGARET VANEVERY 52	36.93 ANN KAY 59

TOP TEN

Long Course Meters

36.95 BEVERLY MYERS	58	46.12 BARBARA ZAREMSKI	55	47.39 SARA SNOEK	55	1:29.64 KATHIE THEIS	61
37.21 BARBARA JORDAN	56	46.40 SUZANNE ROBBINS	59	47.89 PATRICIA TULLMAN	56	1:30.68 ANN PISCIOTTA	62
38.09 JUDY KENNEDY	55	46.76 DORIS KLITZKE	58	47.90 DORIS KLITZKE	58	1:31.43 CAROL FERGUSON	61
100 M. FREE WOMEN 55-59		100 M. BACK WOMEN 55-59		100 M. FLY WOMEN 55-59		1:31.80 BARBARA CALLISON	60
1:12.34 JAYNE BRUNER	89	1:21.42 BETSY JORDAN	92	1:27.49 GAIL ROPER	85	200 M. FREE WOMEN 60-64	
1:21.37 DIANE STOWELL	59	1:27.32 BETSY JORDAN	56	1:35.61 LUCILLE GRIFFIN	55	2:43.83 LAVELLE STOINOFF	93
1:22.31 ANN KAY	59	1:29.88 BARBARA JORDAN	56	1:39.14 ANNE MCGUIRE	58	2:43.83 LAVELLE STOINOFF	60
1:22.47 BETSY JORDAN	56	1:33.54 LUCILLE GRIFFIN	55	1:39.46 BETSY JORDAN	56	3:10.26 DIANE REED	62
1:23.16 BARBARA JORDAN	55	1:34.54 BEVERLY MYERS	58	1:45.39 MARGIE HEINEMAN	56	3:10.47 ANN PISCIOTTA	62
1:23.69 BEVERLY MYERS	58	1:34.61 SUSAN LIVINGSTON	55	1:50.33 JANE OBERG	55	3:12.35 GAIL ROPER	64
1:24.37 MARGIE HEINEMAN	56	1:36.10 ANN CHAMP	58	1:51.89 DORIS KLITZKE	58	3:19.27 MALCHIA OLSHAN	62
1:24.38 BARBARA ZAREMSKI	56	1:38.59 ANN KAY	59	1:52.05 PATRICIA TULLMAN	56	3:26.29 EDIE GRUENDER	64
1:26.72 PATRICIA TULLMAN	56	1:42.05 SUZANNE ROBBINS	59	1:52.81 JEANNE LITTLE	56	3:30.18 ELLEN VOSE	63
1:29.39 SARA SNOEK	55	1:42.40 MARIAN COAKLEY	55	1:54.42 BARBARA ZAREMSKI	55	3:30.74 BARBARA CALLISON	60
1:30.08 SALLY NEWELL	55	1:42.42 DOROTHY WHITEHEAD	58	1:55.45 YOLANDE HOSS	59	3:31.94 BETTY BARABASH	64
200 M. FREE WOMEN 55-59		200 M. BACK WOMEN 55-59		200 M. FLY WOMEN 55-59		3:32.14 JOAN ALEXANDER	61
2:42.04 LAVELLE STOINOFF	88	2:59.18 BETSY JORDAN	92	3:19.84 GAIL ROPER	85	400 M. FREE WOMEN 60-64	
2:55.48 BETSY JORDAN	56	3:05.08 BETSY JORDAN	56	3:35.97 ANNE MCGUIRE	58	5:47.52 LAVELLE STOINOFF	93
2:57.99 RONNIE KAMPHAUSEN	59	3:15.22 BARBARA JORDAN	56	3:36.72 BETSY JORDAN	56	5:47.52 LAVELLE STOINOFF	60
2:59.52 BARBARA JORDAN	55	3:23.49 SUSAN LIVINGSTON	55	3:41.71 SUSAN LIVINGSTON	55	6:42.19 ANN PISCIOTTA	62
3:01.34 DIANE STOWELL	59	3:26.71 ANN CHAMP	58	3:48.22 LUCILLE GRIFFIN	55	6:50.26 MALCHIA OLSHAN	62
3:03.84 ANN KAY	59	3:29.28 LUCILLE GRIFFIN	55	4:03.14 BARBARA ZAREMSKI	56	7:10.18 ELLEN VOSE	63
3:08.27 MARGIE HEINEMAN	56	3:30.08 BEVERLY MYERS	58	4:04.02 JANE OBERG	55	7:17.97 BARBARA CALLISON	60
3:09.33 BARBARA ZAREMSKI	56	3:45.55 BARBARA ZAREMSKI	55	4:17.68 DOT WERRY	56	7:21.47 EDIE GRUENDER	64
3:13.39 ANN MCDONNELL	55	3:48.72 SUZANNE ROBBINS	59	4:17.74 SARA SNOEK	55	7:25.83 MARIA YUNGEL	61
3:13.58 PATRICIA TULLMAN	56	3:49.59 PATRICIA TULLMAN	56	4:22.75 DONNA EDELBAUM	59	7:29.42 NANCY DURSTEIN	63
3:13.91 BEVERLY MYERS	58	3:54.55 DOROTHY WHITEHEAD	58	4:33.05 ANN GINDROZ	55	7:52.24 MARTY BARRY	60
400 M. FREE WOMEN 55-59		50 M. BRST WOMEN 55-59		200 M. I.M. WOMEN 55-59		8:01.28 BARB NELSON	60
5:36.66 LAVELLE STOINOFF	88	39.91 JAYNE BRUNER	91	3:06.11 JAYNE BRUNER	92	800 M. FREE WOMEN 60-64	
6:04.76 BETSY JORDAN	56	45.30 MARGIT JEBE	55	3:23.83 BETSY JORDAN	56	12:04.16 LAVELLE STOINOFF	93
6:29.04 BARBARA JORDAN	56	46.82 MARGIE HEINEMAN	56	3:24.72 BEVERLY MYERS	58	12:04.16 LAVELLE STOINOFF	60
6:30.63 JEANNE LITTLE	56	46.84 DIANE STOWELL	58	3:26.33 SUSAN LIVINGSTON	55	13:49.76 MALCHIA OLSHAN	62
6:33.43 MARGIE HEINEMAN	56	46.95 SALLY NEWELL	55	3:31.06 MARGIT JEBE	55	13:57.96 GAIL ROPER	64
6:38.52 NANCY BROWN	56	47.12 J.G. PIPER	56	3:34.68 ANNE MCGUIRE	58	15:58.61 MARGARET TIMMINS	63
6:38.75 BARBARA ZAREMSKI	55	47.19 ANNE MCGUIRE	58	3:42.15 BARBARA ZAREMSKI	55	14:15.41 ANN PISCIOTTA	62
6:49.94 PRUDENCE HALL	55	47.22 BEVERLY MYERS	58	3:42.66 DORIS KLITZKE	58	15:09.69 ELLEN VOSE	63
6:53.05 PATRICIA TULLMAN	56	47.72 ALICE JONES	55	3:44.40 JANE OBERG	55	15:35.65 BETTY BARABASH	64
7:00.46 ANN GINDROZ	55	47.93 NORMA POWELL	59	3:47.55 PATTI HARKREADER	57	16:15.20 MARTY BARRY	60
7:05.99 ANN MCDONNELL	55	48.29 B.CULBERTSON	55	3:50.94 DOT WERRY	57	16:56.41 RUTH FARNHAM	63
800 M. FREE WOMEN 55-59		100 M. BRST WOMEN 55-59		400 M. I.M. WOMEN 55-59		16:57.33 BARB NELSON	60
11:30.97 LAVELLE STOINOFF	88	1:29.88 JAYNE BRUNER	92	6:42.05 GAIL ROPER	85	1500 M. FREE WOMEN 60-64	
12:57.10 BARBARA JORDAN	55	1:39.29 MARGIT JEBE	55	7:09.56 BETSY JORDAN	56	23:17.39 LAVELLE STOINOFF	93
13:04.52 BETSY JORDAN	56	1:42.40 MARION COAKLEY	55	7:14.76 SUSAN LIVINGSTON	55	23:17.39 LAVELLE STOINOFF	60
13:24.87 ANN KAY	59	1:43.54 ANNE MCGUIRE	58	7:19.98 ANNE MCGUIRE	58	26:08.19 MALCHIA OLSHAN	62
13:53.20 BARBARA ZAREMSKI	56	1:43.77 JOHNNIE DETRICK	57	7:35.04 BARBARA ZAREMSKI	56	26:18.67 GAIL ROPER	64
14:14.31 PRUDENCE HALL	55	1:44.26 DIANE STOWELL	59	7:35.62 LUCILLE GRIFFIN	55	26:59.94 ANN PISCIOTTA	62
14:43.15 ANN GINDROZ	55	1:44.97 BEVERLY MYERS	58	7:55.14 JANE OBERG	55	29:07.76 BARBARA CALLISON	60
14:43.38 DONNA MONROE	59	1:46.08 SALLY NEWELL	55	8:16.19 DOT WERRY	56	29:12.82 NANCY DURSTEIN	63
14:52.25 JUDY KENNEDY	55	1:46.21 YOLANDE HOSS	59	8:24.46 JOY ROSS	59	30:30.99 KATHY ISERI	60
14:54.61 BARBARA BOWER	55	1:46.41 MARGIE HEINEMAN	56	8:42.77 DONNA MONROE	59	30:53.30 JOAN MCINTYRE	64
14:55.15 SYLVIA GLENN	55	1:47.02 NANCY BROWN	59	9:15.02 CHAYA AMIAD	55	31:02.95 MARTY BARRY	60
1500 M. FREE WOMEN 55-59		200 M. BRST WOMEN 55-59		*****		32:49.90 BETTY MC MILLAN	64
22:18.91 LAVELLE STOINOFF	88	3:27.89 JAYNE BRUNER	91	50 M. FREE WOMEN 60-64		50 M. BACK WOMEN 60-64	
24:24.50 RONNIE KAMPHAUSEN	59	3:35.08 MARGIT JEBE	55	35.08 DOROTHY DONNELLY	85	40.35 DORIS STEADMAN	89
25:03.30 BARBARA JORDAN	56	3:44.26 ANNE MCGUIRE	58	35.27 MARGARET TIMMINS	63	45.40 CYNTHIA BRUCE	64
25:07.17 BETSY JORDAN	56	3:46.55 SALLY NEWELL	55	35.89 LAVELLE STOINOFF	60	46.71 JUDY CHADIMA	63
26:21.02 BARBARA ZAREMSKI	56	3:51.65 MARGIE HEINEMAN	56	36.38 GAIL ROPER	64	47.16 ARDIS BOURLAND	60
27:42.52 SYLVIA GLENN	55	3:52.61 ALICE JONES	55	37.40 DIANE REED	62	48.52 ANN PISCIOTTA	62
27:47.84 ANN GINDROZ	55	3:54.49 J.G. PIPER	56	38.20 KATHIE THEIS	61	49.42 JACQUELINE DUNLOP	62
28:04.82 KATE KNIGHT-PERRY	58	3:57.22 YOLANDE HOSS	59	38.61 CAROL FERGUSON	61	49.83 MARIA YUNGEL	61
28:44.40 DOT WERRY	57	3:57.34 ANN JOHNSEN	57	39.28 CYNTHIA BRUCE	64	49.94 KATHIE THEIS	61
28:50.00 DONNA MONROE	59	4:13.66 BETSY JORDAN	56	39.42 BARBARA CALLISON	60	50.10 CINDY BAXTER	61
30:17.78 ANNIE ATWOOD	58	4:14.39 SYLVIA GLENN	55	39.70 JUDY CHADIMA	63	51.35 MARY JANE MULLINS	62
50 M. BACK WOMEN 55-59		50 M. FLY WOMEN 55-59		40.70 ARDIS BOURLAND	60	51.95 BARBARA CALLISON	60
37.30 BETSY JORDAN	92	35.29 GAIL ROPER	85	100 M. FREE WOMEN 60-64		100 M. BACK WOMEN 60-64	
39.20 BETSY JORDAN	56	39.95 BETSY JORDAN	56	1:16.97 LAVELLE STOINOFF	93	1:31.06 CLARA WALKER	86
41.00 BARBARA JORDAN	56	41.31 BEVERLY MYERS	58	1:16.97 LAVELLE STOINOFF	60	1:33.24 LAVELLE STOINOFF	60
43.69 BEVERLY MYERS	58	42.93 JANE OBERG	55	1:25.14 DIANE REED	62	1:42.49 JUDY CHADIMA	63
44.87 ANN CHAMP	58	42.96 JEANNE LITTLE	56	1:26.76 GAIL ROPER	64	1:44.45 ANN PISCIOTTA	62
44.92 ANN KAY	59	43.77 MARGIE HEINEMAN	56	1:27.83 JUDY CHADIMA	63	1:45.61 CYNTHIA BRUCE	64
45.99 DOROTHY WHITEHEAD	58	43.89 ANN KAY	59	1:28.54 MARGARET TIMMINS	63	1:48.48 BARBARA CALLISON	60
46.12 SCOTTIE HOLLIDAY	59	45.71 MARGIT JEBE	55	1:29.38 CYNTHIA BRUCE	64	1:48.81 JOAN MCINTYRE	64

TOP TEN

Long Course Meters

1:48.86 MARIA YUNDEL 61	2:00.86 MALCHIA OLSHAN 62	3:21.25 ANNE ADAMS 65	3:53.76 JUNE KRAUSER 67
1:49.85 MARY JANE MULLINS 62	2:02.55 CINDY BAXTER 61	3:23.19 DELLA SEHORN 66	4:03.59 PETEY MH. SMITH 69
1:50.55 KATHIE THEIS 61	2:09.80 RUTH HOSKINSON 63	3:28.61 ANITA HAZEN 65	4:04.93 M.J. AMSBARY 68
1:51.89 BARBARA OWENS 63	2:11.52 MARY JANE MULLINS 62	3:36.06 LOIS NOCHMAN 68	4:11.24 PEGGY SANBORN 66
200 M. BACK WOMEN 60-64	200 M. FLY WOMEN 60-64	3:40.27 GRACE ALTUS 69	4:11.61 ALICIA COLEMAN 68
3:14.11 LAVELLE STOINOFF 93	3:32.87 GAIL ROPER 90	400 M. FREE WOMEN 65-69	50 M. BRST WOMEN 65-69
3:14.11 LAVELLE STOINOFF 60	3:52.24 ANN PISCIOTTA 62	6:05.22 CLARA WALKER 91	46.07 CLARA WALKER 93
3:43.06 ANN PISCIOTTA 62	4:06.45 LILLY KRON 61	6:12.60 CLARA WALKER 66	46.07 CLARA WALKER 66
3:44.48 JUDY CHADIMA 63	4:13.17 SYLVIA EISELE 63	6:28.42 JUNE KRAUSER 66	50.61 M.J. AMSBARY 68
3:48.15 MARY JANE MULLINS 62	4:14.10 JOAN ALEXANDER 61	6:51.07 PETEY MH. SMITH 69	51.43 REGAN KENNER 69
3:49.62 CYNTHIA BRUCE 64	4:16.07 MALCHIA OLSHAN 62	6:55.26 FLORENCE CARR 67	51.55 ALICIA COLEMAN 68
3:50.36 BARBARA CALLISON 60	4:24.08 NANCY DURSTEIN 63	6:56.36 BETTY RUSS 66	52.75 FLORENCE CARR 67
3:53.02 JOAN MCINTYRE 64	4:27.56 BARBARA CALLISON 60	6:58.59 ANNE ADAMS 65	53.49 CHARLOTE COSTELLO 69
3:54.33 MARIA YUNDEL 61	4:43.39 RUTH HOSKINSON 63	7:18.04 ANITA HAZEN 65	53.68 JUNE KRAUSER 67
3:55.00 JACQUELINE DUNLOP 62	4:50.73 RUTH AARON 64	7:37.22 DOROTHY LA CHASSE 69	56.02 SUZANNE GRAHAM 66
4:03.65 STEFANENA KYSOR 64	5:46.76 JOAN MCINTYRE 64	7:41.63 GRACE ALTUS 69	56.14 MIRIAN TUOVILA 68
50 M. BRST WOMEN 60-64	200 M. I.M. WOMEN 60-64	7:43.54 LOIS NOCHMAN 68	56.28 JOAN GLARATON 66
45.75 ANN PISCIOTTA 92	3:17.40 CLARA WALKER 86	800 M. FREE WOMEN 65-69	100 M. BRST WOMEN 65-69
46.76 ANN PISCIOTTA 62	3:33.28 ANN PISCIOTTA 62	12:27.60 CLARA WALKER 92	1:42.84 CLARA WALKER 91
47.28 CAROL TAYLOR 64	3:48.55 LILLY KRON 61	12:40.09 CLARA WALKER 67	1:44.78 CLARA WALKER 66
47.74 SYLVIA EISELE 63	3:50.12 BARBARA CALLISON 60	13:17.32 JUNE KRAUSER 66	1:53.34 REGAN KENNER 69
47.76 LILLY KRON 61	3:57.11 JACQUELINE DUNLOP 62	14:21.07 BETTY RUSS 66	1:55.28 M.J. AMSBARY 68
49.55 LAVELLE STOINOFF 60	3:57.41 EDIE GRUENDER 64	14:29.21 FLORENCE CARR 68	1:56.29 JUNE KRAUSER 67
50.22 CAROL FERGUSON 61	3:58.35 JUDY CHADIMA 63	14:53.51 DELLA SEHORN 66	1:56.37 ALICIA COLEMAN 68
51.31 CINDY BAXTER 61	3:59.93 MALCHIA OLSHAN 62	15:13.60 GRACE ALTUS 69	1:58.05 CHARLOTE COSTELLO 69
52.86 BARBARA CALLISON 60	4:02.30 CAROL FERGUSON 61	15:14.25 ANITA HAZEN 65	1:59.13 FLORENCE CARR 68
52.86 MICKEY SHOCKLEY 63	4:07.65 BARBARA OWENS 63	16:18.56 LOIS NOCHMAN 68	2:01.22 DELLA SEHORN 66
53.35 JACQUELINE DUNLOP 62	4:10.79 NANCY DURSTEIN 63	16:32.25 MARIAN WOLLE 65	2:04.62 BUNNY DAWSON 65
100 M. BRST WOMEN 60-64	400 M. I.M. WOMEN 60-64	16:48.88 NAN BLACKLEDGE 68	2:06.62 MIRIAN TUOVILA 68
1:40.18 ANN PISCIOTTA 92	6:59.45 CLARA WALKER 86	1500 M. FREE WOMEN 65-69	200 M. BRST WOMEN 65-69
1:41.74 ANN PISCIOTTA 62	7:33.09 ANN PISCIOTTA 62	24:07.05 CLARA WALKER 92	3:47.50 CLARA WALKER 93
1:45.87 LAVELLE STOINOFF 60	7:52.67 BARBARA CALLISON 60	24:25.07 CLARA WALKER 67	3:47.50 CLARA WALKER 67
1:46.20 LILLY KRON 61	8:11.03 MALCHIA OLSHAN 62	25:55.56 JUNE KRAUSER 67	4:05.55 JUNE KRAUSER 67
1:49.36 CAROL FERGUSON 61	8:17.86 SYLVIA EISELE 63	27:13.94 FLORENCE CARR 68	4:07.85 REGAN KENNER 69
1:49.46 SYLVIA EISELE 63	8:22.91 DONNA EDELBAUM 60	28:27.49 GRACE ALTUS 69	4:17.10 FLORENCE CARR 67
1:49.78 CAROL TAYLOR 64	8:29.77 JOAN ALEXANDER 61	29:00.87 ANITA HAZEN 65	4:23.30 M.J. AMSBARY 68
1:54.46 CINDY BAXTER 61	8:38.37 NANCY DURSTEIN 63	31:19.30 MARIAN WOLLE 65	4:24.57 BUNNY DAWSON 65
1:55.96 BARBARA CALLISON 60	9:14.67 JOAN MCINTYRE 64	31:36.43 BETH BLICKFELDT 67	4:36.85 GLADYS OLSEN 67
1:57.82 DONNA EDELBAUM 60	9:22.90 MARY JANE MULLINS 62	31:56.99 ELFRIEDE ROGERS 65	4:40.03 LOIS NOCHMAN 68
2:00.06 JACQUELINE DUNLOP 62	9:27.47 RUTH HOSKINSON 63	32:45.22 CLARA SOTAK 68	4:42.28 MARIAN WOLLE 65
200 M. BRST WOMEN 60-64	*****	33:26.79 NANCY REED 66	5:04.58 JOAN GLARATON 66
3:35.36 ANN PISCIOTTA 92	50 M. FREE WOMEN 65-69	50 M. BACK WOMEN 65-69	50 M. FLY WOMEN 65-69
3:39.27 LAVELLE STOINOFF 60	34.75 CLARA WALKER 92	39.85 CLARA WALKER 92	43.35 FLORENCE CARR 90
3:41.37 ANN PISCIOTTA 62	35.48 CLARA WALKER 66	40.62 CLARA WALKER 67	43.91 CLARA WALKER 67
3:42.79 LILLY KRON 61	37.93 FLORENCE CARR 67	42.24 DORIS STEADMAN 68	44.05 FLORENCE CARR 67
3:53.51 CAROL FERGUSON 61	37.97 BETTY RUSS 66	47.13 DOROTHY LA CHASSE 69	44.85 JUNE KRAUSER 67
3:58.07 SYLVIA EISELE 63	39.17 JEAN TROY 66	47.29 DELLA SEHORN 66	45.33 LOIS NOCHMAN 68
4:07.97 CAROL TAYLOR 64	39.30 CYNTHIA BRUCE 65	47.91 REGAN KENNER 69	47.04 DELLA SEHORN 66
4:09.92 JOAN ALEXANDER 61	39.53 DOROTHY LA CHASSE 69	48.24 M.J. AMSBARY 68	48.23 C.WILLIAMS 69
4:13.62 MICKEY SHOCKLEY 63	40.13 SUZANNE GRAHAM 66	49.32 FLORENCE CARR 67	48.88 DOROTHY LA CHASSE 69
4:21.43 MALCHIA OLSHAN 62	41.36 ANNE ADAMS 65	49.86 C.WILLIAMS 69	48.95 JEAN TROY 66
4:21.99 JOYCE BAHLER 63	41.51 JUNE KRAUSER 67	50.53 JUNE KRAUSER 67	52.69 BERNICE GREETHAM 66
50 M. FLY WOMEN 60-64	42.73 BERNICE GREETHAM 66	52.28 JACQUELINE HOUCK 65	54.27 ALICIA COLEMAN 68
38.64 ANNE ADAMS 88	100 M. FREE WOMEN 65-69	100 M. BACK WOMEN 65-69	100 M. FLY WOMEN 65-69
44.39 BARBARA CALLISON 60	1:16.84 CLARA WALKER 92	1:30.97 CLARA WALKER 91	1:40.35 JUNE KRAUSER 91
46.82 EDIE GRUENDER 64	1:19.56 CLARA WALKER 66	1:32.71 CLARA WALKER 67	1:42.74 JUNE KRAUSER 66
47.50 ANN PISCIOTTA 62	1:26.60 JEAN TROY 66	1:34.47 DORIS STEADMAN 68	1:48.22 DELLA SEHORN 66
47.84 DONNA EDELBAUM 60	1:27.80 FLORENCE CARR 67	1:41.93 REGAN KENNER 69	1:51.97 LOIS NOCHMAN 68
48.99 CAROL TAYLOR 64	1:28.42 PETEY MH. SMITH 69	1:43.42 DELLA SEHORN 66	1:56.97 CYNTHIA BRUCE 65
49.33 JOAN ALEXANDER 61	1:28.60 JUNE KRAUSER 67	1:45.29 DOROTHY LA CHASSE 69	2:00.09 BETTY RUSS 66
50.25 CINDY BAXTER 61	1:31.17 ANNE ADAMS 65	1:48.04 BERNICE GREETHAM 66	2:02.47 FLORENCE CARR 68
53.14 JUDY CHADIMA 63	1:31.41 BETTY RUSS 66	1:48.72 CYNTHIA BRUCE 65	2:16.15 BOBBI TURCOTTE 66
53.54 MALCHIA OLSHAN 62	1:32.60 DOROTHY LA CHASSE 69	1:49.06 M.J. AMSBARY 68	2:18.67 MARIAN WOLLE 65
55.12 BARBARA OWENS 63	1:35.98 CYNTHIA BRUCE 65	1:49.29 JUNE KRAUSER 67	2:26.63 GLADYS OLSEN 67
100 M. FLY WOMEN 60-64	1:36.72 C.WILLIAMS 69	1:50.57 C.WILLIAMS 69	200 M. FLY WOMEN 65-69
1:34.48 ANNE ADAMS 88	200 M. FREE WOMEN 65-69	200 M. BACK WOMEN 65-69	3:42.61 JUNE KRAUSER 92
1:44.47 ANN PISCIOTTA 62	2:48.51 CLARA WALKER 92	3:17.12 DORIS STEADMAN 90	3:43.34 JUNE KRAUSER 66
1:52.43 CAROL TAYLOR 64	2:56.40 CLARA WALKER 66	3:22.15 CLARA WALKER 67	4:06.70 BETTY RUSS 66
1:52.45 JOAN ALEXANDER 61	3:08.72 JUNE KRAUSER 67	3:26.90 DORIS STEADMAN 68	4:18.22 LOIS NOCHMAN 68
1:52.94 EDIE GRUENDER 64	3:13.10 BETTY RUSS 66	3:43.76 REGAN KENNER 69	4:50.57 RUTH MANFREDI 68
1:55.68 BARBARA CALLISON 60	3:14.60 FLORENCE CARR 67	3:50.16 DELLA SEHORN 66	4:52.51 MARIAN WOLLE 65
1:57.23 DONNA EDELBAUM 60	3:15.27 JEAN TROY 66	3:52.00 FLORENCE CARR 67	5:01.53 MARGARET WELLS 67

TOP TEN

Long Course Meters

5:06.98 GLADYS OLSEN 67	8:37.01 DORIS PETERS 70	1:05.10 EDITH GLUSAC 74	9:23.26 JAE HOWELL 70
5:08.34 ELFRIEDE ROGERS 65	8:43.79 BARDI DENDY 72	1:05.49 MERLYN EWBANK 73	10:08.43 JUNE REYNOLDS 71
5:50.36 GLORIA MARIENTHAL 68	8:51.20 BARBARA MILLER 70	100 M. BRST WOMEN 70-74	10:31.58 JEANNETTE EPPLEY 73
6:41.65 MARJORIE NEWMAN 69	8:52.95 JUNE REYNOLDS 71	1:52.88 BETTY CHRISTIAN 92	11:56.48 ROSEMARY KARIKER 74
200 M. I.M. WOMEN 65-69	800 M. FREE WOMEN 70-74	2:08.57 JAE HOWELL 70	14:21.57 ELFIE STEVENIN 71
3:19.01 CLARA WALKER 91	15:00.12 MARGERY MEYER 93	2:11.88 MURIEL FLYNN 70	14:51.60 MARION CHADWICK 71
3:24.98 CLARA WALKER 67	15:00.12 MARGERY MEYER 70	2:18.79 IRENE SANDAHL 71	*****
3:37.35 JUNE KRAUSER 66	15:50.12 MARY LEE WATSON 71	2:19.49 DORIS PETERS 70	50 M. FREE WOMEN 75-79
3:45.32 DELLA SEHORN 66	16:09.87 B.ANN BURRILL 72	2:19.91 AGOTA FROHS 72	42.29 LOUISE DONOVAN 93
3:47.67 FLORENCE CARR 67	17:10.01 NANCY PHILLIPS 72	2:20.43 DOT DONNELLY 71	42.29 LOUISE DONOVAN 75
3:52.76 JEAN TROY 66	18:40.91 JAE HOWELL 70	2:23.77 JUNE REYNOLDS 71	45.71 ANNE WALKER 77
4:02.06 BERNICE GREETHAM 66	18:45.24 BETTY KENDALL 73	2:24.39 RUTH DAVIES 73	47.42 AUDREY ETIENNE 76
4:02.49 C.WILLIAMS 69	18:46.17 JUNE REYNOLDS 71	2:24.56 LELA PIERCE 70	48.39 MARGARET NAGLE 76
4:08.59 LOIS NOCHMAN 68	20:03.91 MARGARET BROU 70	2:26.56 EDITH GLUSAC 74	50.02 NANCY CLARK 79
4:10.84 ALICIA COLEMAN 68	20:13.47 A.HOTTINGER 71	200 M. BRST WOMEN 70-74	50.23 GERTRUD ZINT 75
4:16.10 SALLY SCHOLER 69	20:17.45 ZADA TAFT 73	4:06.80 BETTY CHRISTIAN 92	50.91 KAY SCHIMPF 75
400 M. I.M. WOMEN 65-69	1500 M. FREE WOMEN 70-74	4:34.80 MURIEL FLYNN 70	51.33 Y.FRISCHHERTZ 75
7:09.69 CLARA WALKER 92	28:39.46 MARGERY MEYER 93	4:42.79 JAE HOWELL 70	51.41 SALLY JOY 76
7:22.16 CLARA WALKER 67	28:39.46 MARGERY MEYER 70	4:52.07 AGOTA FROHS 72	53.21 MARY JANE REEVES 76
7:40.30 JUNE KRAUSER 67	32:26.70 B.ANN BURRILL 73	5:04.57 JUNE REYNOLDS 71	100 M. FREE WOMEN 75-79
8:15.25 FLORENCE CARR 68	32:43.89 NANCY PHILLIPS 72	5:10.49 MERLYN EWBANK 73	1:38.28 LOUISE DONOVAN 93
9:01.97 MARIAN WOLLE 65	37:25.99 ZADA TAFT 74	5:21.30 RUTH DAVIES 73	1:38.28 LOUISE DONOVAN 75
9:08.70 BETH BLICKFELDT 67	37:48.88 MARGARET BROU 70	5:28.66 EDITH GLUSAC 74	1:40.07 RITA SIMONTON 75
9:16.66 ELFRIEDE ROGERS 65	39:07.13 MARION CHADWICK 71	5:52.68 LIVIA WALKER 70	1:48.67 ANNE WALKER 77
9:39.73 GLADYS OLSEN 67	40:48.08 MARIE KREIPE 74	5:57.07 JUDY MELCHER 73	1:52.36 NANCY CLARK 79
9:50.01 JOAN GLARATON 66	42:28.57 RACHEL ERWIN 73	7:23.92 RACHEL ERWIN 73	1:52.97 AUDREY ETIENNE 76
11:34.44 MARJORIE NEWMAN 69	50 M. BACK WOMEN 70-74	50 M. FLY WOMEN 70-74	1:54.10 GERTRUD ZINT 75
*****	44.53 BUNNY CEDERLUND 92	49.55 JEANNETTE EPPLEY 90	1:54.75 Y FRISCHHERTZ 75
50 M. FREE WOMEN 70-74	47.36 MARGERY MEYER 70	52.81 JEANNE MERRYMAN 70	1:55.63 MARIE WICKLUN 79
38.12 DOROTHY DONNELLY 93	47.77 JEANNE MERRYMAN 70	53.58 DOROTHY DONNELLY 71	1:55.69 KAY SCHIMPF 75
38.12 DOROTHY DONNELLY 71	53.18 NANCY PHILLIPS 71	55.42 NANCY PHILLIPS 71	1:56.66 MARGARET NAGLE 76
39.50 JEANNE MERRYMAN 70	53.88 H.HUGGINS 71	57.41 DIANA SILVA 71	200 M. FREE WOMEN 75-79
41.73 RUTH BAAR 70	54.05 ELSIE STEVENS 71	59.56 IRENE SANDAHL 71	3:37.64 RITA SIMONTON 93
42.94 MARGERY MEYER 70	55.11 DIANA SILVA 71	1:00.51 JAE HOWELL 70	3:37.64 RITA SIMONTON 75
44.24 BARDI DENDY 72	55.43 IRENE SANDAHL 71	1:00.90 JEANNETTE EPPLEY 73	3:47.11 LOUISE DONOVAN 75
44.42 BILLIE BURRILL 72	56.07 ANNALOU CARRIER 72	1:03.38 JUNE REYNOLDS 71	4:02.17 ANNE WALKER 77
46.04 IRENE SANDAHL 71	56.86 RUTH BAAR 70	1:05.56 RITA SIMONTON 74	4:08.49 GERTRUD ZINT 75
46.13 NANCY PHILLIPS 71	57.06 BARBARA MILLER 70	1:07.52 JEAN ZULICH 73	4:10.68 Y FRISCHHERTZ 75
46.44 ELSIE STEVENS 71	100 M. BACK WOMEN 70-74	100 M. FLY WOMEN 70-74	4:11.17 KAY SCHIMPF 76
46.45 DIANA SILVA 71	1:44.88 BUNNY CEDARLUND 92	2:06.32 JEANNETTE EPPLEY 92	4:16.22 NANCY CLARK 79
100 M. FREE WOMEN 70-74	1:47.43 JEANNE MERRYMAN 70	2:12.71 JAE HOWELL 70	4:16.24 MARY JANE REEVES 76
1:28.54 DOROTHY DONNELLY 93	1:48.84 MARGERY MEYER 70	2:15.90 IRENE SANDAHL 72	4:17.73 AUDREY ETIENNE 76
1:28.54 DOT DONNELLY 71	1:57.24 NANCY PHILLIPS 71	2:17.62 JUNE REYNOLDS 71	4:17.92 MARGARET NAGLE 76
1:34.24 JEANNE MERRYMAN 70	2:00.20 BARBARA MILLER 70	2:17.71 JEANNETTE EPPLEY 73	400 M. FREE WOMEN 75-79
1:35.94 MARGERY MEYER 70	2:00.24 ELSIE STEVENS 71	2:37.29 WINNIE WALTER 72	7:38.77 RITA SIMONTON 93
1:37.03 RUTH BAAR 70	2:01.35 H.HUGGINS 71	2:44.94 JEAN ZULICH 73	7:38.77 RITA SIMONTON 75
1:43.51 BILLIE BURRILL 72	2:06.89 MARY LEE WATSON 71	2:48.39 ROSEMARY KARIKER 74	7:59.44 LOUISE DONOVAN 75
1:45.92 NANCY PHILLIPS 72	2:08.17 JAE HOWELL 70	2:50.22 E.WOLENBERG 72	8:43.10 ANNE WALKER 77
1:46.12 BARDI DENDY 72	2:08.32 RUTH BAAR 70	3:12.59 ELFIE STEVENIN 71	8:45.43 JEAN DURSTON 79
1:46.94 MURIEL FLYNN 70	2:10.91 JUNE REYNOLDS 71	4:00.95 VICTORIA HARRIS 73	8:46.49 Y.FRISCHHERTZ 75
1:48.62 ELSIE STEVENS 71	200 M. BACK WOMEN 70-74	200 M. FLY WOMEN 70-74	8:47.20 KAY SCHIMPF 76
1:49.40 DIANA SILVA 71	3:52.95 BUNNY CEDARLUND 92	4:37.05 MAXINE MERLINO 82	8:47.37 JOAN OSBORNE 76
200 M. FREE WOMEN 70-74	4:06.47 JEANNE MERRYMAN 70	4:46.79 JAE HOWELL 70	8:50.18 AUDREY ETIENNE 76
3:24.07 MARGERY MEYER 93	4:14.41 BARBARA MILLER 70	4:56.49 JUNE REYNOLDS 71	8:57.53 GERTRUD ZINT 75
3:24.07 MARGERY MEYER 70	4:14.85 ELSIE STEVENS 71	5:29.29 JEANNETTE EPPLEY 73	9:01.65 MARY JANE REEVES 76
3:34.16 DOROTHY DONNELLY 71	4:15.18 NANCY PHILLIPS 72	5:35.39 WINNIE WALTER 72	800 M. FREE WOMEN 75-79
3:38.76 RUTH BAAR 70	4:15.55 MARGERY MEYER 70	6:15.33 ROSEMARY KARIKER 74	15:41.45 RITA SIMONTON 93
3:42.67 JEANNE MERRYMAN 70	4:29.39 H.HUGGINS 71	6:52.42 ELFIE STEVENIN 71	15:41.45 RITA SIMONTON 75
3:45.91 MARY LEE WATSON 71	4:29.51 MARY LEE WATSON 71	200 M. I.M. WOMEN 70-74	16:48.39 LOUISE DONOVAN 75
3:50.53 BILLIE BURRILL 72	4:29.99 DIANA SILVA 71	4:03.39 DOROTHY DONNELLY 93	17:33.58 ANNE WALKER 77
3:53.06 NANCY PHILLIPS 72	4:31.09 JAE HOWELL 70	4:03.39 DOROTHY DONNELLY 71	18:01.04 JOAN OSBORNE 76
4:00.66 MAURINE KORNFELD 71	4:42.56 IRENE SANDAHL 71	4:29.44 JAE HOWELL 70	18:09.78 JEAN DURSTON 78
4:00.89 ELSIE STEVENS 71	50 M. BRST WOMEN 70-74	4:34.47 DIANA SILVA 71	18:13.90 MARY JANE REEVES 76
4:05.24 AGNES ZYDINSKY 71	50.08 BETTY CHRISTIAN 92	4:38.22 IRENE SANDAHL 71	18:21.21 KAY SCHIMPF 76
400 M. FREE WOMEN 70-74	56.12 JAE HOWELL 70	4:38.30 NANCY PHILLIPS 72	18:48.31 Y FRISCHHERTZ 75
7:07.58 MARGERY MEYER 93	59.05 MURIEL FLYNN 70	4:38.43 MARGERY MEYER 70	19:25.00 MARIE WICKLUN 79
7:07.58 MARGERY MEYER 70	1:01.09 DORIS PETERS 70	4:41.44 DORIS PETERS 70	19:26.58 EDNA LAFLIN 75
7:45.26 RUTH BAAR 70	1:01.21 BARDI DENDY 72	4:41.65 JUNE REYNOLDS 71	1500 M. FREE WOMEN 75-79
7:52.76 BILLIE BURRILL 72	1:03.81 DOROTHY DONNELLY 71	4:48.11 H.HUGGINS 71	29:45.90 RITA SIMONTON 93
8:00.68 MARY LEE WATSON 71	1:03.93 JUNE REYNOLDS 71	4:52.68 JEANNETTE EPPLEY 73	29:45.90 RITA SIMONTON 75
8:21.09 AGNES ZYDINSKY 71	1:04.02 IRENE SANDAHL 72	400 M. I.M. WOMEN 70-74	33:05.75 MARIA LENK ZIGLER 78
8:29.86 DIANA SILVA 71	1:04.82 AGOTA FROHS 73	8:39.36 RITA SIMONTON 88	33:56.46 KAY SCHIMPF 76

TOP TEN

Long Course Meters

33:57.99 MARJORIE SHARPE 76	5:31.87 SALLY JOY 76	100 M. FREE WOMEN 80-84	50 M. BRST WOMEN 80-84
34:19.99 JEAN DURSTON 79	5:44.62 MARY JANE REEVES 76	1:55.84 JULIA DOLCE 91	1:05.10 MAXINE MERLINO 92
35:10.35 Y.FRISCHHERTZ 75	6:37.86 HILDA BUEL 79	2:05.38 JULIA DOLCE 83	1:17.45 ELSA MATTILA 82
36:53.96 EDNA LAFLIN 75	6:57.13 HELENA HOFFMAN 77	2:11.60 MARIE KELLEHER 80	1:23.75 MADELEINE MILLER 82
42:29.33 MARY LATHRAM 78	8:18.45 ANNE WILDER 79	2:25.17 EDITH HENDRY 82	1:29.15 KATHERINE OLANDER 80
43:45.00 AGNES ROMAYKO 79	8:28.35 ROSE STEWARD 75	2:28.00 ELLEN TAIT 82	1:44.93 SALLY RYCKMAN 81
48:09.11 ROSE STEWARD 75	9:04.04 MARY SIEBOLD 77	2:28.56 HELEN OFFENHAUSER 81	1:48.03 DOROTHY RIORDAN 81
50 M. BACK WOMEN 75-79	50 M. FLY WOMEN 75-79	2:36.18 WIN KENNEDY 80	1:48.25 HEDWIG PULLMAN 82
50.45 ANNE WALKER 91	55.38 GERTRUD ZINT 93	2:37.85 MADELEINE MILLER 82	1:49.65 HELEN OFFENHAUSER 80
52.30 ANNE WALKER 77	55.38 GERTRUD ZINT 75	2:38.47 SALLY RYCKMAN 81	1:53.50 MARGOT LENIGK 81
54.99 MARDIE BROWN 76	1:01.08 MARIA LENK ZIGLER 78	2:49.42 DOROTHY RIORDAN 81	100 M. BRST WOMEN 80-84
55.85 Y.FRISCHHERTZ 75	1:02.75 KAY SCHIMPF 75	2:52.40 HEDWIG PULLMAN 82	2:22.79 MAXINE MERLINO 92
56.74 MARIE WICKLUN 79	1:05.14 MARDIE BROWN 76	200 M. FREE WOMEN 80-84	2:49.58 ELSA MATTILA 82
58.06 GERTRUD ZINT 75	1:05.39 SALLY JOY 76	4:21.21 MAXINE MERLINO 92	3:00.12 MADELEINE MILLER 82
1:02.31 AUDREY ETIENNE 76	1:07.79 JEAN DURSTON 79	4:43.60 JULIA DOLCE 84	3:10.07 WIN KENNEDY 80
1:02.43 MARY LATHRAM 78	1:11.58 LORRAINE MURPHY 75	4:47.59 MARIE KELLEHER 80	3:34.99 DOROTHY RIORDAN 81
1:02.97 JO LACY 75	1:18.52 HELEN ROUMASSET 78	5:12.06 ELLEN TAIT 82	3:59.79 MARGOT LENIGK 81
1:03.02 KAY SCHIMPF 76	1:18.96 ANNE WILDER 79	5:29.82 HELEN OFFENHAUSER 80	4:00.75 HEDWIG PULLMAN 82
1:03.93 MARGARET NAGLE 76	1:19.69 MARY WENTWORTH 77	5:43.76 SALLY RYCKMAN 81	200 M. BRST WOMEN 80-84
100 M. BACK WOMEN 75-79	100 M. FLY WOMEN 75-79	6:27.61 EDITH HENDRY 82	5:07.83 MAXINE MERLINO 92
1:53.66 ANNE WALKER 93	2:19.44 KAY SCHIMPF 92	6:49.66 HEDWIG PULLMAN 82	6:00.01 ELSA MATTILA 83
1:53.66 ANNE WALKER 77	2:21.06 KAY SCHIMPF 76	6:55.39 ELIZABETH JOHN 83	7:13.79 MADELEINE MILLER 82
2:01.20 Y.FRISCHHERTZ 75	2:21.77 GERTRUD ZINT 75	400 M. FREE WOMEN 80-84	50 M. FLY WOMEN 80-84
2:04.52 MARIE WICKLUN 79	2:26.69 RITA SIMONTON 75	9:02.79 MAXINE MERLINO 92	1:16.09 KATHERINE PELTON 87
2:04.54 MARIA LENK ZIGLER 78	2:32.10 JEAN DURSTON 79	10:08.03 JULIA DOLCE 83	1:18.28 MARIE KELLEHER 80
2:06.03 MARDIE BROWN 76	2:35.83 MARDIE BROWN 76	10:51.24 ELLEN TAIT 82	1:19.70 ELSA MATTILA 82
2:08.47 GERTRUD ZINT 75	2:48.05 MARY WENTWORTH 77	11:37.79 ELSA MATTILA 83	1:22.67 WIN KENNEDY 80
2:16.73 AUDREY ETIENNE 76	3:09.55 ANNE WILDER 79	12:21.97 SALLY RYCKMAN 80	1:49.30 HELEN OFFENHAUSER 81
2:17.65 MARGARET NAGLE 76	3:35.23 HILDA BUEL 79	12:27.11 WIN KENNEDY 80	1:55.30 PEARL SOBEL 81
2:19.89 MARY LATHRAM 78	3:43.38 HELENA HOFFMAN 77	13:56.70 GERALDINE TURNER 81	2:02.46 DOROTHY RIORDAN 81
2:21.07 SALLY JOY 76	3:53.73 ANNE LUFT 76	14:19.38 ELIZABETH JOHN 83	100 M. FLY WOMEN 80-84
200 M. BACK WOMEN 75-79	200 M. FLY WOMEN 75-79	800 M. FREE WOMEN 80-84	2:37.32 MAXINE MERLINO 92
4:07.44 MARIE WICKLUN 89	4:54.79 MAXINE MERLINO 88	18:43.13 MAXINE MERLINO 92	3:19.82 ELSA MATTILA 82
4:08.00 ANNE WALKER 77	5:34.14 JEAN DURSTON 78	21:35.04 JULIA DOLCE 84	3:54.03 WIN KENNEDY 80
4:16.79 Y FRISCHHERTZ 75	5:55.04 KAY SCHIMPF 76	25:34.86 WIN KENNEDY 80	200 M. FLY WOMEN 80-84
4:30.02 MARIE WICKLUN 79	6:34.70 MARDIE BROWN 76	27:38.59 EDITH HENDRY 82	5:29.93 MAXINE MERLINO 92
4:30.40 GERTRUD ZINT 75	7:09.71 HILDA BUEL 79	1500 M. FREE WOMEN 80-84	6:46.36 ELSA MATTILA 83
4:41.53 KAY SCHIMPF 75	7:29.68 ANNE WILDER 79	36:54.26 JULIA DOLCE 90	200 M. I.M. WOMEN 80-84
4:59.62 SALLY JOY 76	7:53.51 HELENA HOFFMAN 77	47:14.31 ELSA MATTILA 82	4:47.02 MAXINE MERLINO 92
5:05.04 MARY LATHRAM 78	200 M. I.M. WOMEN 75-79	50 M. BACK WOMEN 80-84	5:37.96 ELSA MATTILA 82
5:05.11 AUDREY ETIENNE 76	4:25.80 MAXINE MERLINO 87	55.07 AILEEN SOULE 89	6:27.34 WIN KENNEDY 80
5:08.57 JO LACY 75	4:30.80 GERTRUD ZINT 75	1:09.98 MARION MUELLER 81	8:57.31 GERALDINE TURNER 81
5:09.20 IVY BROWNE 78	4:40.83 MARIA LENK ZIGLER 78	1:10.72 JULIA DOLCE 84	400 M. I.M. WOMEN 80-84
50 M. BRST WOMEN 75-79	4:55.25 KAY SCHIMPF 76	1:12.16 EDITH HENDRY 82	10:05.13 MAXINE MERLINO 92
55.58 GERTRUD ZINT 93	5:00.16 JEAN DURSTON 79	1:12.51 KATHERINE OLANDER 80	12:00.56 ELSA MATTILA 83
55.58 GERTRUD ZINT 75	5:14.19 Y.FRISCHHERTZ 75	1:14.55 HELEN OFFENHAUSER 81	13:58.31 WIN KENNEDY 80
1:01.03 SALLY JOY 76	5:28.33 MARY WENTWORTH 77	1:18.60 SALLY SHEPPARD 81	*****
1:05.81 KAY SCHIMPF 75	5:46.14 HELEN ROUMASSET 78	1:21.34 MADELEINE MILLER 82	50 M. FREE WOMEN 85-89
1:12.02 HELEN ROUMASSET 78	6:34.55 HILDA BUEL 79	1:22.94 HEDWIG PULLMAN 82	51.48 AILEEN SOULE 91
1:12.78 Y.FRISCHHERTZ 75	6:42.34 HELENA HOFFMAN 77	1:23.43 ELLEN TAIT 82	1:22.00 M.B. MCKECHNIE 88
1:14.37 MARY WENTWORTH 77	6:49.05 ROBERTA SUGDEN 76	1:25.11 GERALDINE TURNER 81	2:28.47 MAMIE BROWN 89
1:15.75 AUDREY ETIENNE 76	400 M. I.M. WOMEN 75-79	100 M. BACK WOMEN 80-84	100 M. FREE WOMEN 85-89
1:16.60 JEAN DURSTON 79	9:11.23 MAXINE MERLINO 87	2:07.79 AILEEN SOULE 89	2:07.61 AILEEN SOULE 91
1:18.23 MARGARET NAGLE 76	9:43.06 GERTRUD ZINT 75	2:26.11 ELSA MATTILA 82	3:02.82 MARIAN MCKECHNIE 88
1:19.92 MARY JANE REEVES 76	10:06.04 KAY SCHIMPF 76	2:29.47 JULIA DOLCE 83	200 M. FREE WOMEN 85-89
100 M. BRST WOMEN 75-79	10:41.90 JEAN DURSTON 79	2:31.83 MARION MUELLER 81	4:49.52 AILEEN SOULE 91
2:05.99 GERTRUD ZINT 93	13:19.35 ANNE WILDER 79	2:42.06 MADELEINE MILLER 82	6:32.06 MARIAN MCKECHNIE 88
2:05.99 GERTRUD ZINT 75	13:19.76 HILDA BUEL 79	2:47.85 HELEN OFFENHAUSER 80	400 M. FREE WOMEN 85-89
2:17.79 RITA SIMONTON 75	14:33.91 HELENA HOFFMAN 77	2:48.81 WIN KENNEDY 80	13:22.48 ELLA PECKHAM 84
2:24.26 KAY SCHIMPF 75	*****	2:59.57 HEDWIG PULLMAN 82	NO SWIMMERS
2:28.19 SALLY JOY 76	50 M. FREE WOMEN 80-84	3:02.80 EDITH HENDRY 82	800 M. FREE WOMEN 85-89
2:38.37 Y.FRISCHHERTZ 75	48.46 MAXINE MERLINO 92	3:16.95 GERALDINE TURNER 81	24:23.38 ANNA BAUSCHER 88
2:41.32 JEAN DURSTON 79	51.35 JULIA DOLCE 83	3:18.61 SALLY RYCKMAN 80	28:23.86 MARIAN MCKECHNIE 88
2:43.00 MARY WENTWORTH 77	55.15 MARIE KELLEHER 80	200 M. BACK WOMEN 80-84	1500 M. FREE WOMEN 85-89
2:45.16 MARY JANE REEVES 76	1:00.86 SALLY SHEPPARD 81	4:38.26 AILEEN SOULE 89	52:15.77 ANNA BAUSCHER 91
2:46.92 ADELE BINSFIELD 76	1:02.41 EDITH HENDRY 82	5:07.71 ELSA MATTILA 83	NO SWIMMERS
2:47.44 HELEN ROUMASSET 78	1:02.67 KATHERINE OLANDER 80	5:22.94 MARION MUELLER 81	50 M. BACK WOMEN 85-89
200 M. BRST WOMEN 75-79	1:04.28 ELLEN TAIT 82	5:58.48 MARIE KELLEHER 80	58.42 AILEEN SOULE 91
4:39.52 MAXINE MERLINO 87	1:06.78 WIN KENNEDY 80	6:11.87 HEDWIG PULLMAN 82	1:26.39 MARIAN MCKECHNIE 88
4:42.83 GERTRUD ZINT 75	1:07.16 GERALDINE TURNER 81	6:19.97 EDITH HENDRY 82	2:06.25 MAMIE BROWN 89
4:44.54 RITA SIMONTON 75	1:09.44 MADELEINE MILLER 82	7:03.94 GERALDINE TURNER 81	100 M. BACK WOMEN 85-89
4:58.09 KAY SCHIMPF 75	1:11.37 HELEN OFFENHAUSER 81	7:31.62 DOROTHY RIORDAN 81	2:13.13 AILEEN SOULE 91

TOP TEN

Long Course Meters

2:22.67 AILEEN SOULE	87	2:05.00 A.T. COSTANTINI	22	2:39.38 LEWIS SCHMITT	24	2:35.93 DERRICK SANDERS	23
4:38.49 MAMIE BROWN	89	2:05.76 JIM MURRAY	24	2:46.97 ANTHONY ZARKA	23	2:37.84 HARLAN LAWSON	23
200 M. BACK WOMEN 85-89		2:09.76 STEVE COHEN	21	2:48.12 GILAD KOCHMAN	24	2:46.80 ERIC PETERSON	19
4:47.82 AILEEN SOULE	91	2:09.80 BRENDAN HALFFMAN	23	3:13.49 ALBERT VAN DYKE	22	3:08.09 LEWIS SCHMITT	24
7:28.16 MARIAN MCKECHNIE	88	2:11.76 JOHN CARR	23	3:54.21 ROBERT QUINN	24	3:21.38 JOSE' MAHER	22
50 M. BRST WOMEN 85-89		2:15.29 MICKEY MITALY	22	50 M. BRST M E N 19-24		200 M. I.M. M E N 19-24	
1:42.40 ELLA PECKHAM	84	2:17.11 ANTHONY ZARKA	23	30.10 JOSH AMATO	87	2:14.08 GREG MACKEM	92
NO SWIMMERS		400 M. FREE M E N 19-24		32.20 TROY DALBEY	24	2:20.66 PATRICK HELMUTH	24
100 M. BRST WOMEN 85-89		4:10.98 TONY BATIS	89	32.39 GREG BURNS	19	2:20.67 A.T. COSTANTINI	22
3:18.97 KATHERINE PELTON	91	4:20.67 A.T. COSTANTINI	22	32.80 HARLAN LAWSON	23	2:21.08 ERIC TARBELL	21
NO SWIMMERS		4:24.64 STEPHEN GOTH	24	32.85 ERIC TARBELL	21	2:29.23 DOMINIC ARTHUR	23
200 M. BRST WOMEN 85-89		4:31.77 STEVE COHEN	21	33.93 LOREN PRICE	19	2:30.11 JOHN CARR	23
6:58.50 KATHERINE PELTON	91	4:32.71 JIM MURRAY	24	34.57 ANDREW GEISZLER	24	2:31.97 SEAN LARSON	23
NO SWIMMERS		4:36.68 JEFFREY RODDIN	24	34.65 BRIAN PERRY	22	2:32.09 RADFORD LEHR	23
50 M. FLY WOMEN 85-89		4:37.18 JAMES AUSTIN	22	34.77 ANTON LENEIS	23	2:33.52 JEFF SCHUBERT	21
1:27.77 ELLA PECKHAM	85	4:43.92 JOHN CARR	23	35.00 TOM SAYLES	21	2:35.49 ANDREW GEISZLER	24
NO SWIMMERS		4:44.22 BRENDAN HALFFMAN	23	35.09 MICHAEL GERADS	23	2:38.78 JAMES AUSTIN	22
100 M. FLY WOMEN 85-89		4:59.59 ANDREW GEISZLER	24	100 M. BRST M E N 19-24		400 M. I.M. M E N 19-24	
3:01.14 KATHERINE PELTON	91	4:59.83 JEFF BEEMER	23	1:06.61 JAMES SUROWIEC	88	4:48.56 GREG MACKEM	92
NO SWIMMERS		800 M. FREE M E N 19-24		1:14.64 ERIC TARBELL	21	5:07.53 JEFFREY RODDIN	24
200 M. FLY WOMEN 85-89		9:02.10 SIMON FINLAYSON	92	1:15.24 GREG BURNS	19	5:11.22 PATRICK HELMUTH	24
7:18.41 KATHERINE PELTON	90	9:14.05 STEVE COHEN	21	1:15.39 LOREN PRICE	19	5:36.05 MICHAEL MAHONEY	24
NO SWIMMERS		9:57.96 BRENDAN HALFFMAN	23	1:16.21 ANDREW GEISZLER	24	5:53.13 M.CHRISTOPHER	22
200 M. I.M. WOMEN 85-89		10:03.43 JIM MURRAY	23	1:16.31 HARLAN LAWSON	23	6:00.40 ERIC PETERSON	19
6:44.53 KATHERINE PELTON	91	10:34.33 MICHAEL MAHONEY	23	1:16.31 C.MORGAN	22	6:06.17 ANTHONY ZARKA	23
NO SWIMMERS		11:04.49 JOHN ARGRAVES	19	1:17.34 RADFORD LEHR	23	6:11.17 GRANT BOLIBAUGH	20
400 M. I.M. WOMEN 85-89		11:07.72 KENNETH RIPPETOE	23	1:17.39 STEVE RAIFF	24	6:14.55 JOSE' MAHER	22
14:02.65 KATHERINE PELTON	90	11:40.84 RONALD VIOLI	24	1:18.47 LEIF LUNSFORD	23	6:41.20 RONALD VIOLI	24
NO SWIMMERS		12:37.18 EDWARD AMES	23	1:19.94 JOHN CARR	23	6:51.40 LEWIS SCHMITT	24
*****		13:36.22 RYAN BOLZ	22	200 M. BRST M E N 19-24		*****	
50 M. FREE WOMEN 90-94		1500 M. FREE M E N 19-24		2:30.64 JOHN HARLOW	92	50 M. FREE M E N 25-29	
2:02.38 PEARL MILLER	88	17:12.51 JAMES ALLEN	91	2:52.03 ANDREW GEISZLER	24	22.59 KEVIN DEFORREST	83
NO SWIMMERS		17:28.17 STEVE COHEN	21	2:54.78 A.T. COSTANTINI	22	24.50 WINSTON RITCHEY	25
100 M. FREE WOMEN 90-94		18:06.12 A.T. COSTANTINI	22	3:00.84 HARLAN LAWSON	23	25.25 THOMAS SMITH	28
4:08.22 PEARL MILLER	88	18:11.45 STEPHEN GOTH	24	3:02.10 ANTON LENEIS	23	25.36 WILLIAM CORRIGAN	28
NO SWIMMERS		18:57.45 DOMINIC ARTHUR	23	3:02.58 JOHN CARR	23	25.60 JON HOWELL	25
50 M. BACK WOMEN 90-94		19:02.18 TODD GERLACH	19	3:03.47 GREG WILDER	23	25.67 ROBERT YOUNG	28
2:17.25 PEARL MILLER	89	19:12.89 JOHN CARR	23	3:07.26 KENNETH RIPPETOE	23	25.70 GARY SQUIRES	29
NO SWIMMERS		20:45.86 SANDY SACHS	23	3:14.13 SCOTT MACHADO	23	25.81 DANIEL HAYES	29
200 M. BACK WOMEN 90-94		20:50.96 ERIC PETERSON	19	3:15.29 GIOVANNI ROXAS	22	25.85 MICHAEL NOMURA	25
10:47.76 PEARL MILLER	89	21:12.28 JOHN ARGRAVES	19	3:16.85 ALBERT VAN DYKE	22	25.89 MATTTHEW ASSIFF	26
NO SWIMMERS		21:14.12 ANTHONY ZARKA	23	50 M. FLY M E N 19-24		25.97 JEFFREY RODGERS	26
*****		50 M. BACK M E N 19-24		26.44 RUSSELL KNEIPP	93	25.97 RICHARD CLARK	28
50 M. FREE M E N 19-24		28.06 CHRIS STEVENSON	87	26.44 RUSSELL KNEIPP	24	100 M. FREE M E N 25-29	
24.11 TROY DALBEY	93	28.20 TROY DALBEY	24	26.80 TROY DALBEY	24	51.25 JIM MONTGOMERY	81
24.11 TROY DALBEY	24	28.74 GREG BURNS	19	26.82 GREG BURNS	19	54.38 CHIP HOBSON	26
25.24 ERIC TARBELL	21	30.20 SEAN LARSON	24	27.22 JEFFREY RODDIN	24	55.33 WINSTON RITCHEY	25
25.49 C.MORGAN	22	30.34 JOHNNY LAVENDER	24	27.27 C.MORGAN	22	55.59 DALE BROWN	25
25.56 RUSSELL KNEIPP	24	30.89 ANDY FARRELL	22	27.48 M.CHRISTOPHER	22	55.97 WILLIAM CORRIGAN	28
25.70 BRIAN PERRY	22	31.00 JEFF DUGDALE	21	27.74 JOHNNY LAVENDER	24	56.53 NEIL HARPER	28
25.77 STEPHEN GOTH	24	32.30 LEWIS SCHMITT	24	28.05 JEFF SCHUBERT	21	56.66 PAUL ROBINSON	25
26.03 GREG BURNS	19	32.36 JIM MURRAY	23	28.05 EDMUND DONALDSON	24	56.76 JEFFREY RODGERS	26
26.19 ANTHONY ZARKA	23	34.22 SANDY SACHS	23	28.38 ANDY FARRELL	22	57.36 ROBERT YOUNG	28
26.33 DOUG PETRIE	24	34.54 GREG WILDER	23	100 M. FLY M E N 19-24		57.95 DANIEL HAYES	29
26.34 BRENDAN HALFFMAN	23	100 M. BACK M E N 19-24		58.16 TONY BATIS	89	57.96 DAVID VAUGHN	29
100 M. FREE M E N 19-24		1:01.85 CHRIS STEVENSON	87	59.42 C.MORGAN	22	200 M. FREE M E N 25-29	
53.90 TONY BATIS	89	1:04.76 GREG BURNS	19	59.86 RUSSELL KNEIPP	24	1:52.17 JOHN KEPPELER	92
54.76 TROY DALBEY	24	1:05.37 SEAN LARSON	24	1:00.69 JEFFREY RODDIN	24	1:59.53 CHIP HOBSON	26
55.28 RUSSELL KNEIPP	24	1:08.57 ANDY FARRELL	22	1:01.20 GREG BURNS	19	2:00.02 JOHN PEARSON	27
56.05 STEPHEN GOTH	24	1:09.71 LEWIS SCHMITT	24	1:02.81 JIM MURRAY	24	2:00.96 KEVIN CASSON	26
56.22 ERIC TARBELL	21	1:11.17 DOUG PETRIE	24	1:03.49 JEFF SCHUBERT	21	2:03.72 PAUL ROBINSON	25
56.77 C.MORGAN	22	1:12.35 MARTIN DONOHUE	24	1:03.85 LEIF LUNSFORD	23	2:03.80 DALE BROWN	25
56.95 GREG BURNS	19	1:15.89 GILAD KOCHMAN	24	1:03.88 SEAN LARSON	24	2:05.01 WILLIAM CORRIGAN	28
57.69 A.T. COSTANTINI	22	1:17.24 ANDREW LACAVA	23	1:04.64 M.CHRISTOPHER	22	2:05.14 MIKE HALPENNY	29
57.83 BRENDAN HALFFMAN	23	1:18.10 GREG WILDER	23	1:08.05 JOHN CARR	23	2:06.91 TODD CLARK	28
57.95 HARLAN LAWSON	23	1:18.23 GRANT BOLIBAUGH	20	200 M. FLY M E N 19-24		2:07.17 DAVID VAUGHN	29
58.48 JOHN CARR	23	200 M. BACK M E N 19-24		2:09.49 KEITH DUNCAN	88	2:07.82 CHUCK WILEY	28
200 M. FREE M E N 19-24		2:15.36 CHRIS STEVENSON	87	2:17.46 A.T. COSTANTINI	22	400 M. FREE M E N 25-29	
1:56.99 TONY BATIS	89	2:20.93 A.T. COSTANTINI	22	2:24.91 JEFF SCHUBERT	21	4:07.73 CAMERON REID	87
2:01.63 STEPHEN GOTH	24	2:21.03 SEAN LARSON	24	2:25.26 STEVE COHEN	21	4:12.83 JOHN PEARSON	27
2:03.70 RUSSELL KNEIPP	24	2:31.77 JIM MURRAY	23	2:29.60 LEIF LUNSFORD	23	4:15.95 KEVIN CASSON	26
2:04.02 TROY DALBEY	24	2:35.70 MICHAEL MAHONEY	24	2:35.48 ANDREW LACAVA	23	4:21.37 CHIP HOBSON	26

TOP TEN

Long Course Meters

4:25.17 CHUCK WILEY 28	33.18 F.CHARMFOROOSH 27	2:21.13 WILLIAM CORRIGAN 28	9:03.10 JEFF STILING 32
4:27.52 MICHAEL COLLINS 27	33.40 MICHAEL PEDERSON 26	2:22.54 JAMES WOLFLE 25	9:10.27 MIKE KECK 33
4:28.13 PAUL ROBINSON 25	33.49 NEIL HARPER 28	2:22.91 TODD CLARK 28	9:28.21 BOBBY PATTEN 30
4:28.51 MARK CANEPA 28	33.52 GREG STELLE 26	2:23.11 CHIP HOBSON 26	9:32.29 DAVID SWENSON 30
4:29.82 DAVID VAUGHN 29	33.57 BORIS TALAN 27	2:23.59 MIKE STORI 27	9:36.21 JOHN LOWE 32
4:31.70 TODD CLARK 28	33.72 CHARLES OLSON 29	2:25.22 ALEX STILES 27	9:41.19 JEFF STUART 32
4:33.19 JAMIE PROFFITT 28	33.91 WINSTON RITCHEY 25	2:25.27 PAUL ROBINSON 25	9:45.28 GARY PETERS 32
800 M. FREE M E N 25-29	100 M. BRST M E N 25-29	400 M. I.M. M E N 25-29	9:46.44 DOUG WILLIAMSON 31
8:36.83 JEFF ERWIN 92	1:04.60 DAVID LUNDBERG 89	4:34.08 CAMERON REID 87	1500 M. FREE M E N 30-34
9:14.77 MICHAEL COLLINS 27	1:08.45 BOB JENNINGS 27	4:49.24 JOHN PEARSON 27	16:36.06 BOBBY PATTEN 93
9:37.33 IAIN ANDERSON 28	1:12.37 DEWEY WYATT 29	4:56.43 JOSEPH VRUDNY 28	17:21.26 JEFF SHEA 30
9:39.16 JOHN NEIKIRK 28	1:12.53 DAVE CADEMARTORI 27	5:02.90 TODD CLARK 28	18:37.81 J.ROBERT GONZALES 30
9:49.81 FRANCISCO PEREZ 26	1:13.69 F.CHARMFOROOSH 27	5:05.67 MICHAEL COLLINS 27	18:40.23 JOHN APKER 32
9:51.85 JOHN JEWELL 29	1:13.71 DANIEL TOM 29	5:07.10 MIKE HALPENNY 29	18:50.79 PATRICK HERRERA 33
9:58.11 MARK CANEPA 28	1:14.27 GREG STELLE 26	5:07.46 EMAD ELSHAFEI 27	18:59.44 DENNIS BAKER 31
10:06.17 WINSTON RITCHEY 25	1:14.89 MIKE STORI 27	5:10.36 CHUCK WILEY 28	19:17.30 JEFF CROSSON 32
10:18.11 JIM IACOMETTI 29	1:14.95 NEIL HARPER 28	5:18.58 PAUL EURE 27	19:30.08 MICHAEL MAKARCZYK 33
10:19.07 JON SUNDAL 25	1:15.44 MATTHEW CONNERY 29	5:19.44 PAUL ROBINSON 25	19:33.21 RON COLLINS 31
10:40.12 W.VOLCKENING 27	1:15.67 BORIS TALAN 27	5:19.99 ERICH RASIMUS 28	19:36.99 JAY YARID 30
1500 M. FREE M E N 25-29	200 M. BRST M E N 25-29	*****	50 M. BACK M E N 30-34
16:28.69 CAMERON REID 87	2:30.96 MARK CHATFIELD 82	50 M. FREE M E N 30-34	23.21 ROWDY GAINES 90
16:45.35 JOHN PEARSON 27	2:33.14 BOB JENNINGS 27	23.79 ROWDY GAINES 33	24.77 TOM REDIG 32
17:13.97 CHUCK WILEY 28	2:35.03 JOHN PEARSON 27	24.80 BRUCE STAHL 34	25.03 JOSEPH LILEIKIS 30
17:56.80 TODD CLARK 28	2:38.92 F.CHARMFOROOSH 27	25.14 ROBERT KILLEEN 31	25.21 JOE REINHARDT 32
18:10.87 PAUL EURE 27	2:41.50 MATTHEW CONNERY 29	25.25 GORDON ANDREWS 33	25.28 JAMES LILLEY 33
18:14.50 DIETRICH LAWRENCE 27	2:45.75 MICHAEL COLLINS 27	25.42 JEFF FREY 31	25.46 DENNIS BAKER 31
18:17.76 JAMIE PROFFITT 28	2:47.03 ROBERT FUENTES 29	25.50 ROWDY GAINES 91	51.50 ROWDY GAINES 33
18:23.82 MICHAEL COLLINS 27	2:49.42 MICHAEL PEDERSON 26	54.86 TOM REDIG 32	54.86 TOM REDIG 32
18:32.47 EMAD ELSHAFEI 27	2:49.53 PAUL IKIOKA 29	55.40 JOSEPH LILEIKIS 30	55.68 JAMES LILLEY 33
18:51.52 JOHN NEIKIRK 28	2:50.97 ERICH RASIMUS 28	56.13 THOMAS FRISTOE 33	56.16 ROBERT KILLEEN 31
18:56.79 FRANCISCO PEREZ 26	2:51.23 CAREY REHDER 28	56.19 MALLORY GRANTHAM 33	56.19 MALLORY GRANTHAM 33
50 M. BACK M E N 25-29	50 M. FLY M E N 25-29	56.42 JOE REINHARDT 32	56.45 STEVEN DAVIS 30
27.42 ROBERT HAUCK 93	25.16 DEFORREST/BOTTOM 84	56.52 ROY DEARY 31	56.52 ROY DEARY 31
27.42 ROBERT HAUCK 28	26.08 DAVE CADEMARTORI 27	100 M. FREE M E N 30-34	100 M. FREE M E N 30-34
29.52 STEVEN REED 25	26.13 ROBERT HAUCK 28	51.50 ROWDY GAINES 91	1:00.03 JAY YARID 93
29.58 TIM VELASCO 26	26.26 STEVEN REED 25	52.60 ROWDY GAINES 33	1:00.03 JAY YARID 30
29.59 NEIL HARPER 28	27.23 WILLIAM CORRIGAN 28	54.86 TOM REDIG 32	1:01.20 CLAY BRITT 32
30.42 JACK MCKEAN 28	27.23 WINSTON RITCHEY 25	55.40 JOSEPH LILEIKIS 30	1:02.74 JOE REINHARDT 32
30.84 JAY TAKATA 28	27.24 BOB JENNINGS 27	55.68 JAMES LILLEY 33	1:03.89 KEN BRENTON 34
30.84 JEFFREY RODGERS 26	27.59 JEFFREY RODGERS 26	56.13 THOMAS FRISTOE 33	1:04.18 JEFF HOLBROOK 34
31.09 ALLEN HIGHNOTE 29	27.62 JACK MCKEAN 28	56.16 ROBERT KILLEEN 31	1:05.12 CURT LACOUNT 34
31.11 JIM GRIFFIN 29	27.73 DALE BROWN 25	56.19 MALLORY GRANTHAM 33	1:05.76 SCOTT MALM 34
31.18 WILLIAM CORRIGAN 28	27.94 NEIL HARPER 28	56.42 JOE REINHARDT 32	1:05.91 GORDON ANDREWS 33
100 M. BACK M E N 25-29	100 M. FLY M E N 25-29	56.45 STEVEN DAVIS 30	1:06.82 GARY ANTONICK 30
58.24 JOHN KEPPELER 92	56.34 MICHAEL BOTTOM 84	56.52 ROY DEARY 31	1:06.95 DAVID WHITMORE 32
58.92 ROBERT HAUCK 28	56.83 STEVEN REED 25	200 M. FREE M E N 30-34	200 M. FREE M E N 30-34
1:02.86 STEVEN REED 25	57.51 ROBERT HAUCK 28	1:54.04 ROWDY GAINES 90	2:09.84 JAY YARID 93
1:03.31 JOSEPH VRUDNY 28	58.38 DAVE CADEMARTORI 27	1:58.06 JEFF STILING 33	2:09.84 JAY YARID 30
1:03.47 EMAD ELSHAFEI 27	59.76 JOSEPH VRUDNY 28	1:58.15 BOBBY PATTEN 30	2:22.02 JEFF HOLBROOK 34
1:03.57 NEIL HARPER 28	1:00.64 WILLIAM CORRIGAN 28	2:01.74 ROBERT HUDEK 31	2:23.02 GARY ANTONICK 30
1:05.34 TIM VELASCO 26	1:01.15 MIKE HALPENNY 29	2:03.59 THOMAS FRISTOE 33	2:23.18 MIKE KECK 33
1:06.42 KEVIN DESTRAMPE 25	1:01.41 THOMAS ORTEGA 25	2:03.94 JAMES LILLEY 33	2:23.36 JOSEPH LILEIKIS 30
1:06.97 JIM GRIFFIN 29	1:01.85 BOB JENNINGS 27	2:04.32 JEFF SHEA 30	2:24.16 GORDON ANDREWS 33
1:07.01 JAMES WOLFLE 25	1:02.05 NEIL HARPER 28	2:05.09 MIKE KECK 33	2:24.37 KEN BRENTON 34
1:07.54 ALEX STILES 27	1:03.02 JAMES WOLFLE 25	2:05.63 THOMAS SMITH 31	2:25.62 SCOTT MALM 34
200 M. BACK M E N 25-29	200 M. FLY M E N 25-29	2:05.64 TOM REDIG 32	2:27.01 GERALD FERRIS 32
2:07.57 JOHN KEPPELER 92	2:06.88 JIM BELARDI 82	400 M. FREE M E N 30-34	2:27.06 DAVID WHITMORE 32
2:08.65 ROBERT HAUCK 28	2:10.53 STEVEN REED 25	4:08.70 JIM MONTGOMERY 86	50 M. BRST M E N 30-34
2:18.11 JOSEPH VRUDNY 28	2:16.19 MIKE HALPENNY 29	4:12.91 ROWDY GAINES 33	29.42 DAVID GUTHRIE 92
2:19.26 EMAD ELSHAFEI 27	2:21.59 MARK CANEPA 28	4:13.54 THOMAS FRISTOE 33	30.05 DAVID GUTHRIE 33
2:22.66 PAUL ROBINSON 25	2:23.64 THOMAS ORTEGA 25	4:20.25 ROBERT HUDEK 31	31.73 CHRIS SHAW 33
2:27.89 MARK WHITESIDE 28	2:26.20 JAMES WOLFLE 25	4:21.33 BOBBY PATTEN 30	31.98 MICHAEL GEROD 30
2:29.35 JAMES WOLFLE 25	2:26.51 MATHEW ROTH 26	4:22.69 JEFF SHEA 30	32.17 STEVE BOONE 34
2:29.89 PAUL EURE 27	2:26.57 MICHAEL COLLINS 27	4:25.00 MIKE KECK 33	32.18 JOE REINHARDT 32
2:31.67 JAY TAKATA 29	2:27.47 JAMIE PROFFITT 28	4:35.37 THOMAS SMITH 31	32.41 JEFFREY KENNEDY 33
2:31.78 DAVID KASTIGAR 29	2:36.52 GREG SMITH 29	4:38.40 JOHN LOWE 32	32.77 ROBERT PECK 32
2:34.86 MICHAEL COLLINS 27	2:38.76 BRIAN ELLIS 25	4:43.91 WILLIAM HENNESSY 32	32.89 ROBERT KILLEEN 31
50 M. BRST M E N 25-29	200 M. I.M. M E N 25-29	4:44.38 CLAY BRITT 32	33.39 JOHN STENROOS 30
29.77 DEWEY WYATT 92	2:09.21 CAMERON REID 87	800 M. FREE M E N 30-34	33.75 MARK STOHRER 31
30.86 DEWEY WYATT 29	2:16.48 JOSEPH VRUDNY 28	8:46.99 JIM MONTGOMERY 86	100 M. BRST M E N 30-34
31.87 DANIEL TOM 29	2:17.67 BOB JENNINGS 27	8:47.75 ROWDY GAINES 33	1:05.65 DAVID LUNDBERG 91
32.43 BOB JENNINGS 27	2:20.45 EMAD ELSHAFEI 27	8:59.98 ROBERT HUDEK 31	1:05.80 DAVID GUTHRIE 33
			1:08.58 THOMAS FRISTOE 33

TOP TEN

Long Course Meters

1:11.86 STEVE BOONE 34	5:00.17 MIKE KECK 33	17:56.18 JIM MONTGOMERY 38	2:44.37 TOM DUGAN 35
1:12.41 CHRIS SHAW 33	5:03.77 ROBERT HUDEK 31	18:15.44 MATTHEW CLARK 36	2:45.88 TOM REUDY 38
1:12.73 JEFFREY KENNEDY 33	5:11.13 PAUL FRENTSOS 31	18:16.69 MARK HAHN 36	2:48.07 JOHN EVERS 39
1:14.43 ROBERT PECK 32	5:12.89 DOUG WILLIAMSON 31	18:22.60 LARRY WOOD 39	2:48.27 MARK BRAUN 36
1:14.67 MATTHEW PAINTER 34	5:14.53 JEFF STUART 32	18:30.74 GREGORY JOHNSON 36	2:48.71 BRUCE BLEAKMAN 37
1:16.05 DAVID KRUSE 32	5:22.46 JOHN APKER 32	18:34.29 SCOTT SHAKE 35	2:49.94 PATRICK DIBIASE 38
1:16.51 MIKEY GIROD 30	5:23.04 BRIAN VAILE 31	18:39.55 PAUL WISE 37	2:50.91 DAVID RUBENSTEIN 35
1:16.59 TODD SPENCER 33	5:29.88 RONALD NIEDRICH 34	18:43.00 DOUGLAS MOYSE 35	2:52.00 ALLEN LYDICK 35
200 M. BRST M E N 30-34	*****	18:46.46 GARY QUINN 35	2:55.06 TIMM ANDERSON 35
2:24.06 DAVID LUNDBERG 91	50 M. FREE M E N 35-39	50 M. BACK M E N 35-39	50 M. FLY M E N 35-39
2:27.19 THOMAS FRISTOE 33	24.27 BRUCE STAHL 93	28.04 THOMPSON MANN 78	25.93 MICHAEL BOTTOM 93
2:27.48 DAVID GUTHRIE 33	24.27 BRUCE STAHL 35	28.53 WILLIAM SPECHT 35	25.93 MICHAEL BOTTOM 37
2:44.01 JEFFREY KENNEDY 33	25.08 STU MARVIN 37	29.35 GLENN PATCHING 35	26.14 WILLIAM SPECHT 35
2:47.03 DAVID KRUSE 32	25.30 TRIP HEDRICK 39	30.34 SCOTT SHAKE 35	27.28 TRIP HEDRICK 39
2:47.26 STEVE BOONE 34	25.56 PETE NUNAN 35	30.39 DOUG PORTELANCE 35	27.60 DAVID HAGUE 39
2:48.42 ROBERT PECK 32	25.58 TIM DALY 35	31.22 DAVID VANDAM 37	27.98 PETE NUNAN 35
2:49.63 MARK DAMIANI 30	25.76 L.MEISENHEIMER 35	31.47 STEVEN LENTZ 35	28.01 CLAY EVANS 39
2:49.70 JOHN STENROOS 30	25.92 DAVID HAGUE 39	31.53 DALE KEITH 38	28.17 MICHAEL HEATHER 39
2:50.86 THOMAS SMITH 31	25.95 DENNIS MATTAI 35	31.53 PETER METZGER 38	28.23 KERRY O'BRIEN 36
2:53.25 CRAIG SIHNER 33	26.03 TIM MCGINNIS 35	32.02 WARREN FISHER 37	28.30 TIM DALY 35
50 M. FLY M E N 30-34	26.08 JEFFREY LUKENS 39	32.04 DEAN EKBERG 37	28.33 TERRY JAYNES 37
25.31 MIKE BOTTOM 88	100 M. FREE M E N 35-39	100 M. BACK M E N 35-39	100 M. FLY M E N 35-39
26.42 TOM REDIG 32	54.01 BRUCE STAHL 93	1:00.95 WILLIAM SPECHT 93	57.44 WILLIAM SPECHT 93
26.56 ROBERT KILLEEN 31	54.01 BRUCE STAHL 35	1:00.95 WILLIAM SPECHT 35	57.44 WILLIAM SPECHT 35
26.63 DENNIS BAKER 31	55.50 STU MARVIN 37	1:04.23 GLENN PATCHING 35	58.06 MICHAEL BOTTOM 37
26.65 BOBBY PATTEN 30	55.96 TRIP HEDRICK 39	1:04.65 SCOTT SHAKE 35	1:01.09 KERRY O'BRIEN 36
26.66 CLAY BRITT 32	56.05 L.MEISENHEIMER 35	1:05.58 DOUG PORTELANCE 35	1:01.15 TRIP HEDRICK 39
27.06 MALLORY GRANTHAM 33	56.61 PETE NUNAN 35	1:08.03 GARY QUINN 35	1:03.21 MICHAEL HEATHER 39
27.22 MARCUS GERNES 30	57.27 SCOTT O'CONNOR 35	1:08.20 DAVID VANDAM 37	1:03.67 TERRY JAYNES 37
27.30 SABRI OZUN 30	57.57 TIM DALY 35	1:08.27 STEVEN LENTZ 35	1:04.36 PAUL WISE 37
27.45 STEVEN DAVIS 30	57.96 DAVID HAGUE 39	1:09.01 GREGORY JOHNSON 36	1:04.43 DENNIS MATTAI 35
27.51 JEFF STUART 32	58.34 LARRY WOOD 39	1:09.01 STUART CORLISS 37	1:05.12 DOUGLAS MOYSE 35
100 M. FLY M E N 30-34	58.45 MARK HAHN 36	1:10.47 KERRY O'BRIEN 36	1:05.14 ROBERT ROSS 35
56.64 MIKE BOTTOM 88	200 M. FREE M E N 35-39	200 M. BACK M E N 35-39	200 M. FLY M E N 35-39
57.50 BOBBY PATTEN 30	1:57.95 DAN STEPHENSON 92	2:13.83 TOM WOLF 90	2:09.18 JAMES BELARDI 92
58.81 JEFF STILING 33	2:02.06 DAVID SHEPHERD 37	2:20.19 SCOTT SHAKE 35	2:10.35 WILLIAM SPECHT 35
59.74 MALLORY GRANTHAM 33	2:03.64 L.MEISENHEIMER 35	2:22.69 DOUG PORTELANCE 35	2:17.44 MICHAEL BRUNER 37
59.84 ROBERT KILLEEN 31	2:05.75 STEVEN BREITER 37	2:25.64 GREGORY JOHNSON 36	2:20.94 KERRY O'BRIEN 36
1:00.20 DENNIS BAKER 31	2:06.57 STEVEN STRONG 39	2:26.80 STUART CORLISS 37	2:22.51 NEIL WASSERMAN 38
1:00.21 MARCUS GERNES 30	2:07.80 STUART CORLISS 37	2:30.70 STEVEN BREITER 37	2:24.30 DAVID VANDAM 37
1:00.50 SABRI OZUN 30	2:08.45 WILLIAM HEMPEL 36	2:31.40 STEVEN LENTZ 35	2:25.65 PAUL WISE 37
1:00.61 TOM REDIG 32	2:08.47 JAMES STEWART 36	2:32.72 WILLIAM SPECHT 35	2:25.73 ROBERT ROSS 35
1:00.84 JEFF STUART 32	2:09.09 GARY QUINN 35	2:33.55 MARTY HENDRICK 35	2:28.42 ROBERT WRIGHT 38
1:00.90 GREG COLBY 31	2:09.76 LARRY WOOD 39	2:34.92 DARRELL RUCKER 35	2:30.35 MICHAEL HEATHER 39
200 M. FLY M E N 30-34	2:09.97 NATHAN LEIGH 37	2:37.07 RON FINLEY 35	2:33.66 NATHAN LEIGH 37
2:07.43 BOBBY PATTEN 93	400 M. FREE M E N 35-39	50 M. BRST M E N 35-39	200 M. I.M. M E N 35-39
2:07.43 BOBBY PATTEN 30	4:15.49 DAN STEPHENSON 92	30.79 DOUG MALCOLM 92	2:16.49 MARK SCHUMAN 92
2:18.36 THOMAS SMITH 31	4:21.72 DAVID SHEPHERD 37	33.41 RON SCHAFFER 35	2:19.82 MATTHEW CLARK 36
2:18.81 GARY ANTONICK 30	4:31.64 MICHAEL BRUNER 37	33.46 WAYNE LEWOCZKO 38	2:24.95 STEVEN STRONG 39
2:18.86 MARCUS GERNES 30	4:31.98 L.MEISENHEIMER 35	33.49 KURT MICKELSON 38	2:24.98 TOM REUDY 38
2:18.99 DOUG WILLIAMSON 31	4:32.54 STEVEN STRONG 39	33.95 PATRICK DIBIASE 35	2:26.22 GARY QUINN 35
2:20.28 GLENN COLE 33	4:34.38 STUART CORLISS 37	34.35 DAVID RUBENSTEIN 38	2:27.26 BRUCE BLEAKMAN 37
2:21.38 JEFF STUART 32	4:35.44 LARRY WOOD 39	34.61 TIMM ANDERSON 35	2:27.52 NEIL WASSERMAN 38
2:22.06 MATT STEVENS 33	4:35.69 JAMES STEWART 36	34.77 TOM DUGAN 35	2:28.33 DAVID VANDAM 37
2:22.63 RON COLLINS 31	4:35.95 GARY QUINN 35	34.84 DEAN EKBERG 37	2:28.85 STEVEN BREITER 37
2:22.80 SCOTT HALLIBURTON 31	4:37.63 MARK HAHN 36	34.97 TED LAVINE 37	2:29.74 TOM DUGAN 35
200 M. I.M. M E N 30-34	4:38.12 PAUL WISE 37	35.04 ALLEN LYDICK 35	2:30.53 KENNETH FATTLAR 36
2:09.69 DAVID LUNDBURG 91	800 M. FREE M E N 35-39	100 M. BRST M E N 35-39	400 M. I.M. M E N 35-39
2:12.87 THOMAS FRISTOE 33	8:52.22 DAN STEPHENSON 92	1:07.90 MARK SCHUMAN 92	4:55.13 JAMES BELARDI 92
2:14.69 BARRY NELMS 30	9:19.71 DAVID SHEPHERD 37	1:11.34 RON SCHAFFER 35	5:00.63 DAVID SHEPHERD 37
2:16.17 JAY YARID 30	9:23.13 JAMES STEWART 36	1:12.66 MATTHEW CLARK 36	5:01.61 MATTHEW CLARK 36
2:16.42 GARY ANTONICK 30	9:32.50 STUART CORLISS 37	1:15.43 PATRICK DIBIASE 38	5:09.57 NEIL WASSERMAN 38
2:18.81 JEFF STILING 33	9:34.59 LARRY WOOD 39	1:16.15 TOM DUGAN 35	5:11.92 GARY QUINN 35
2:20.60 CHRIS OLDEN 31	9:40.28 ROB COPELAND 36	1:16.33 DEAN EKBERG 37	5:16.32 STEVEN BREITER 37
2:20.60 JAMES LILLEY 33	9:40.60 STEVEN BREITER 37	1:16.71 BRUCE BLEAKMAN 37	5:22.40 BRUCE BLEAKMAN 37
2:23.20 PAUL FRENTSOS 31	9:46.78 DOUGLAS MOYSE 35	1:17.42 MARK BRAUN 36	5:22.86 JAMES STEWART 36
2:24.13 THOMAS SMITH 31	9:48.42 NEIL WASSERMAN 38	1:17.56 ALLEN LYDICK 35	5:25.29 TOM REUDY 38
2:24.81 ROBERT PECK 32	9:48.42 WILLIAM HEMPEL 36	1:17.72 TIMM ANDERSON 35	5:28.56 PAUL WISE 37
400 M. I.M. M E N 30-34	9:53.68 STEVEN YOOD 35	1:18.24 JOHN EVERS 39	5:35.00 RON SCHAFFER 35
4:40.44 DAVID LUNDBERG 92	1500 M. FREE M E N 35-39	200 M. BRST M E N 35-39	*****
4:41.30 THOMAS FRISTOE 33	17:26.29 JIM MCCONICA 89	2:33.05 MARK SCHUMAN 92	50 M. FREE M E N 40-44
4:56.05 GARY ANTONICK 30	17:28.27 DAVID SHEPHERD 37	2:36.46 RON SCHAFFER 35	24.93 TOM WHATLEY 92

TOP TEN

Long Course Meters

25.59 C.MILTENBERGER	41	30.35 RICHARD BOBER	42	27.39 JOHN FOOTE	42	57.04 ANDREW MCPHERSON	92
25.70 TIM BRODERICK	42	31.43 WILLIAM TINGLEY	43	27.66 FRED HUBBELL	40	58.52 ANDREW MCPHERSON	46
25.87 FRED HUBBELL	40	31.77 KURT MOEHLMANN	41	27.85 CRAIG BURNS	40	1:01.45 EDWARD CROSSMORE	45
26.22 WILLIE WACHOB	40	32.19 GARY HAFER	42	28.13 K.M. MCCORMACK	40	1:01.88 ROBERT STRAND	47
26.36 LEE MENCH	40	32.34 PAUL FETTERS	40	28.73 JOHN MCCALL	41	1:02.40 LARRY SLOAN	45
26.39 JOEL STAGER	40	32.53 LOU HORWITZ	40	29.31 ARTHUR DEFFAA	44	1:02.69 JOHN SULTAN	46
26.45 JOHN FOOTE	42	32.64 B.RANSOM-NELSON	40	29.50 CRAIG SAINT-AMOUR	40	1:02.72 ROBERT CASEY	48
26.85 CRAIG BURNS	40	32.86 STEVEN NELSON	40	29.52 DAVE SAMUELSON	40	1:03.01 DONALD GALINE	47
26.88 CARY KENT	41	33.62 RICK KOZLOWSKI	40	29.58 STEVE HECK	43	1:03.09 DAVID SCOTT	45
26.99 WILLIAM DRULIAS	41	33.95 DAVID OWEN	41	29.71 DAVID CASTO	41	1:03.20 GARY BRENNER	45
100 M. FREE M E N 40-44		100 M. BACK M E N 40-44		100 M. FLY M E N 40-44		1:03.38 ROGER JORGENSEN	45
56.25 C.MILTENBERGER	93	1:03.39 PETER O'KEEFFE	90	1:02.05 LANCE LARSON	80	200 M. FREE M E N 45-49	
56.25 C.MILTENBERGER	41	1:06.94 RICHARD BOBER	42	1:03.18 RANDY WILLIAMS	42	2:07.18 TIM GARTON	90
56.30 TIM BRODERICK	42	1:07.40 BYRON REIDENBAUGH	42	1:03.41 EDWARD BROWN	40	2:09.99 ANDREW MCPHERSON	46
57.11 LEE MENCH	40	1:08.55 WILLIAM TINGLEY	43	1:04.21 JOHN MCCALL	41	2:11.26 TOD SPIEKER	45
58.48 CRAIG BURNS	40	1:08.68 KURT MOEHLMANN	41	1:04.58 K.M. MCCORMACK	40	2:13.06 EDWARD CROSSMORE	45
58.50 JIM MCCONICA	42	1:09.32 STEVEN NELSON	40	1:04.67 ALAN BELL	43	2:13.68 TIM BIRNIE	47
58.64 JOEL STAGER	40	1:10.22 B.RANSOM-NELSON	40	1:05.04 RICHARD HAAS	43	2:14.86 STEVE JOHNSON	45
59.46 WILLIE WACHOB	40	1:10.90 FRANK THOMPSON	41	1:05.75 ARTHUR DEFFAA	44	2:16.45 BRUCE FISHER	45
59.46 MIKE SHERRILL	43	1:11.85 LOU HORWITZ	40	1:05.79 STEPHEN BOSTER	42	2:18.65 MIKE GARIABALDI	47
59.94 DAVID DRAKE	41	1:12.26 ALAN BELL	43	1:05.97 FRED HUBBELL	40	2:19.16 HUGH WILDER	46
1:00.02 BYRON REIDENBAUGH	42	1:12.61 GARY HAFER	42	1:06.16 JOHN FOOTE	42	2:19.44 ROBERT DAVIDSON	45
200 M. FREE M E N 40-44		200 M. BACK M E N 40-44		200 M. FLY M E N 40-44		2:19.59 GAARD ARNESON	45
2:03.28 TIM BRODERICK	93	2:18.17 PETER O'KEEFFE	90	2:20.81 EDWARD BROWN	93	400 M. FREE M E N 45-49	
2:03.28 TIM BRODERICK	42	2:26.95 RICHARD BOBER	42	2:20.81 EDWARD BROWN	40	4:27.70 BOB MOMSEN	92
2:05.26 JIM MCCONICA	42	2:27.68 PAUL FETTERS	40	2:21.30 RANDY WILLIAMS	42	4:42.73 TOD SPIEKER	45
2:06.85 LEE MENCH	40	2:29.52 STEVEN NELSON	40	2:22.08 WILLIAM REEVES	40	4:45.08 EDWARD CROSSMORE	45
2:08.27 RANDY WILLIAMS	42	2:29.68 KURT MOEHLMANN	41	2:27.56 DAVID TANNER	43	4:45.11 JOHN CALVERT	47
2:08.60 BYRON REIDENBAUGH	42	2:30.35 B.RANSOM-NELSON	40	2:28.94 TIM BRODERICK	42	4:48.06 STEVE JOHNSON	45
2:10.08 JOHN NOLAN	44	2:32.30 FRANK THOMPSON	41	2:31.05 JOHN NOLAN	44	4:49.64 KEITH BELL	45
2:10.23 WILLIAM REEVES	40	2:35.49 WILLIAM TINGLEY	43	2:32.59 RICHARD HAAS	43	4:51.23 TIM BIRNIE	47
2:11.73 TODD BRYAN	42	2:36.47 DAVID OWEN	41	2:33.20 RONALD KANE	41	4:52.84 BRUCE FISHER	45
2:12.68 DAVID DRAKE	41	2:37.43 MARK ANDERSON	40	2:33.86 BRUCE JOHNSON	42	4:52.95 GAARD ARNESON	45
2:12.97 KEVIN POLANSKY	43	2:38.77 BILL DOW	42	2:34.91 JOEL WILSON	44	4:59.83 GARY BRENNER	45
400 M. FREE M E N 40-44		50 M. BRST M E N 40-44		200 M. I.M. M E N 40-44		5:01.29 LEO FRENCH II	45
4:24.26 TIM BRODERICK	93	30.82 PEDER DAHLBERG	92	2:18.92 RICK COLELLA	92	800 M. FREE M E N 45-49	
4:24.26 TIM BRODERICK	42	31.97 C.MILTENBERGER	41	2:22.82 BYRON REIDENBAUGH	42	9:31.38 BOB MOMSEN	92
4:29.69 EDWARD BROWN	40	33.91 ALLEN STARK	44	2:25.32 BERRY HAMILTON	40	9:39.38 TOD SPIEKER	45
4:31.44 TODD BRYAN	42	33.92 RICHARD ENRIGHT	40	2:26.51 WILLIAM REEVES	40	9:44.91 EDWARD CROSSMORE	45
4:35.81 WILLIAM REEVES	40	33.97 FRED HUBBELL	40	2:26.55 JIM MCCONICA	42	10:09.39 STEVE JOHNSON	45
4:38.38 JOHN NOLAN	44	34.03 BERRY HAMILTON	40	2:30.30 RICHARD ENRIGHT	40	10:14.55 GAARD ARNESON	45
4:47.20 MIKE SHERRILL	43	34.51 STEVE HANSEN	41	2:32.95 STEVE HECK	43	10:16.55 JOHN SULTAN	46
4:47.43 JOEL WILSON	44	34.85 GARY JEWELL	43	2:33.77 JOEL WILSON	44	10:19.68 KEITH BELL	45
4:48.54 DAVID OWEN	41	34.87 WAYNE MC CAULEY	44	2:34.92 B.RANSOM-NELSON	40	10:25.29 ROGER JORGENSEN	45
4:49.89 MARK PEMBROOKE	41	35.02 DAVE SAMUELSON	40	2:35.08 JOHN NOLAN	44	10:28.64 GARY BRENNER	45
4:51.43 B. RANSOM-NELSON	40	35.08 BOB LIOTTA	42	2:35.46 HUNTER YOST	42	10:30.82 BRETT SORGE	46
800 M. FREE M E N 40-44		100 M. BRST M E N 40-44		400 M. I.M. M E N 40-44		10:31.02 E.RUDLOFF	46
9:19.37 KEVIN POLANSKY	90	1:09.95 PEDER DAHLBERG	92	4:57.46 RICK COLELLA	92	1500 M. FREE M E N 45-49	
9:20.86 TIM BRODERICK	42	1:10.34 C.MILTENBERGER	41	5:05.85 BYRON REIDENBAUGH	42	18:27.49 R TOD SPIEKER	93
9:23.61 EDWARD BROWN	40	1:14.47 RICHARD ENRIGHT	40	5:09.35 WILLIAM REEVES	40	18:27.49 TOD SPIEKER	45
9:25.09 RANDY WILLIAMS	42	1:15.09 BERRY HAMILTON	40	5:16.79 JIM MCCONICA	42	19:09.57 BRUCE FISHER	45
9:31.73 BYRON REIDENBAUGH	42	1:16.08 ALLEN STARK	44	5:18.17 JOHN NOLAN	44	19:13.82 STEVE JOHNSON	45
9:33.81 JOHN NOLAN	44	1:17.55 STEVE HANSEN	41	5:26.43 RICHARD ENRIGHT	40	19:25.03 GAARD ARNESON	45
9:58.97 JOEL WILSON	44	1:17.66 GREGORY HARRISON	41	5:31.82 JOEL WILSON	44	19:25.41 WILLIAM CERNY	45
9:58.98 FRANK THOMPSON	41	1:17.87 DAVE SAMUELSON	40	5:34.36 FRANK THOMPSON	41	19:34.28 KEITH BELL	45
10:00.31 BRUCE JOHNSON	42	1:17.95 RICK WALKER	42	5:34.57 HUNTER YOST	42	19:50.83 LEO FRENCH II	45
10:06.87 MARVIN SCHWARTZ	44	1:18.68 RICHARD BOHAN	42	5:35.55 B.RANSOM-NELSON	40	20:33.73 HOP BAILEY	46
10:14.43 STEVE PYLE	42	1:20.34 WAYNE MC CAULEY	44	5:36.89 JOHN THAYER	41	20:34.69 MIKE GARIABALDI	47
1500 M. FREE M E N 40-44		200 M. BRST M E N 40-44		*****		20:42.17 JOHN SELMER	48
17:30.13 KEVIN POLANSKY	90	2:32.17 RICK COLELLA	92	50 M. FREE M E N 45-49		50 M. BACK M E N 45-49	
17:35.83 TODD BRYAN	42	2:41.62 C.MILTENBERGER	41	25.30 RICHARD ABRAHAMS	90	30.42 HUGH WILDER	93
17:47.09 JIM MCCONICA	42	2:42.60 RICHARD ENRIGHT	40	26.16 ANDREW MC PHERSON	46	30.42 HUGH WILDER	46
18:24.15 KEVIN POLANSKY	43	2:42.94 BERRY HAMILTON	40	26.28 THOMAS PEEK	45	31.00 TIM BIRNIE	47
18:51.28 JOHN NOLAN	44	2:44.23 GREGORY HARRISON	41	27.15 ROBERT STRAND	47	31.97 ANDREW MC PHERSON	46
18:52.58 RICHARD STONE	41	2:50.64 ALLEN STARK	44	27.23 HUGH WILDER	46	33.40 R. TOD SPIEKER	45
19:04.06 FRANK THOMPSON	41	2:51.85 STEVE HANSEN	41	27.44 ROBERT SIMONS	45	33.54 RICHARD ALEXANDER	49
19:10.74 BRUCE JOHNSON	42	2:52.27 RICHARD BOHAN	42	27.50 MIKE GARIABALDI	47	33.62 JAMES KING	46
19:20.55 JOEL WILSON	44	2:53.28 RICK WALKER	42	27.58 CRAIG DEVER	45	34.05 DAN BEHR	48
19:27.09 DAVID OWEN	41	2:55.36 STEVE HECK	43	27.59 ROBERT CASEY	48	34.15 THOMAS PEEK	45
19:31.66 STEPHEN STEDRY	42	2:56.04 DAVE SAMUELSON	40	27.77 RAWDY BROWN	45	34.42 RAWDY BROWN	45
50 M. BACK M E N 40-44		50 M. FLY M E N 40-44		27.94 DONALD GALINE	47	34.49 JAMES KAUFFMAN	45
29.38 PETER O'KEEFFE	90	27.04 JOHN FOOTE	91	100 M. FREE M E N 45-49		100 M. BACK M E N 45-49	

TOP TEN

Long Course Meters

1:06.00 HUGH WILDER 92	1:02.84 ANDREW MCPHERSON 92	200 M. FREE M E N 50-54	2:32.81 RICHARD BURNS 93
1:06.80 HUGH WILDER 46	1:03.04 ANDREW MCPHERSON 46	2:09.74 TIMOTHY GARTON 93	2:32.81 RICHARD BURNS 50
1:07.35 TIM BIRNIE 47	1:07.25 KEITH BELL 45	2:09.74 TIMOTHY GARTON 50	2:33.72 EDWARD CAZALET 50
1:08.50 TOD SPIEKER 45	1:07.73 RANDY BROWN 45	2:15.36 EDWARD CAZALET 50	2:37.29 TIMOTHY GARTON 50
1:10.23 JOHN CALVERT 47	1:07.75 ROBIN KLEFFMAN 45	2:15.89 KEEFE LODWIG 50	2:38.50 STEVEN THRASHER 51
1:13.38 JAMES KING 46	1:08.56 BRUCE FISHER 45	2:18.41 STEVE CLARK 50	2:44.01 ALLEN NEULS 50
1:14.90 DAN BEHR 48	1:09.84 E.RUDLOFF 46	2:23.35 JAMES WHITE 51	2:44.13 TEX HARASZTI 52
1:15.79 ROGER JORGENSEN 45	1:10.04 DAVID HAMILTON 46	2:23.73 ROBERT WILLIAMS 51	2:46.16 RICHARD BASSI 52
1:17.08 MARK LITMAN 48	1:10.94 JOSEPH COPLAN 49	2:24.33 RICHARD BASSI 52	2:49.50 PETER BETZER 51
1:17.33 DAVID UGARKOVICH 45	1:11.36 STEVE JOHNSON 45	2:25.51 ORRIN NORDSTROM 52	2:53.44 HUGH RODDIN 51
1:17.43 MICHAEL MCKINLAY 49	1:13.00 PHILIP ROGOSHESKE 48	2:26.14 JACK GEOGHEGAN 51	2:56.93 DRURY GALLAGHER 54
200 M. BACK M E N 45-49	200 M. FLY M E N 45-49	2:27.27 RICHARD BOYD 50	50 M. BRST M E N 50-54
2:26.91 JOHN CALVERT 92	2:29.52 ANDREW MCPHERSON 93	400 M. FREE M E N 50-54	33.85 MANUEL SANGUILY 83
2:27.82 JOHN CALVERT 47	2:29.52 ANDREW MCPHERSON 46	4:43.72 TIMOTHY GARTON 92	35.16 VIRGIL LUKEN 50
2:28.26 TOD SPIEKER 45	2:32.48 KEITH BELL 45	4:43.72 TIMOTHY GARTON 50	35.26 THOMAS BOAK 50
2:31.44 TIM BIRNIE 47	2:47.76 BOB KOLONKOWSKI 45	4:50.92 EDWARD CAZALET 50	36.88 DRURY GALLAGHER 54
2:32.97 HUGH WILDER 46	2:52.65 JOHN SULTAN 46	4:57.47 TEX HARASZTI 52	37.33 RUSS DESSERICH 50
2:40.58 JAMES KING 46	2:53.57 E.RUDLOFF 46	4:57.74 RICHARD BOYD 50	37.40 PETER BETZER 51
2:45.38 ROGER JORGENSEN 45	2:53.86 GAARD ARNESON 45	5:04.23 ROBERT WILLIAMS 51	37.46 PHILLIP WHITTEN 50
2:45.69 BOB KOLONKOWSKI 45	2:53.94 STEVE JOHNSON 45	5:06.86 JIM CRANE 51	37.49 LEE KELLER 50
2:47.91 MICHAEL MCKINLAY 49	2:55.45 JAMES GREEN 48	5:11.77 STEVEN THRASHER 51	37.96 RICK FIELD 51
2:51.98 DAVID UGARKOVICH 45	2:56.92 PHILIP ROGOSHESKE 48	5:19.02 JACK GEOGHEGAN 51	38.05 JAMES WHITE 51
2:53.46 DAN BEHR 48	3:00.06 CHRIS RIVERS 47	5:27.43 BOB COALE 53	38.40 JACK LANCE 50
50 M. BRST M E N 45-49	200 M. I.M. M E N 45-49	5:31.86 MIKE CALWELL 52	100 M. BRST M E N 50-54
32.76 RICK NESBIT 91	2:24.39 BOB MOMSEN 92	800 M. FREE M E N 50-54	1:15.60 MANUEL SANGUILY 83
33.82 ROBERT STRAND 47	2:29.22 JOHN CALVERT 47	9:55.59 TIMOTHY GARTON 92	1:19.56 THOMAS BOAK 50
34.72 WAYNE MC CAULEY 45	2:34.04 ROBERT STRAND 47	9:55.59 TIMOTHY GARTON 50	1:19.58 DRURY GALLAGHER 54
34.83 PAUL MENYHARTH 46	2:36.82 JOHN SULTAN 46	10:10.90 EDWARD CAZALET 51	1:21.09 VIRGIL LUKEN 50
35.00 ROBERT DAVIDSON 45	2:38.81 DAVE GEMMILL 45	10:52.20 RICHARD BOYD 50	1:21.88 PHILLIP WHITTEN 50
35.66 ROBIN KLEFFMAN 45	2:43.35 KEITH BELL 45	10:52.97 BILL GONZALEZ 50	1:22.54 TEX HARASZTI 52
35.98 TOM BOAK 49	2:44.86 GARY LANGENDOEN 47	11:17.41 JACK GEOGHEGAN 51	1:25.62 BILL GONZALEZ 50
36.22 ROBERT SCOTT 47	2:45.83 JOHN SELMER 48	11:28.16 MIKE CALWELL 52	1:25.81 MIKE LAUX 51
36.45 SCOTT GUTHRIE 48	2:46.40 WILLIAM CERNY 45	11:35.93 MEL GOLDSTEIN 54	1:25.88 JACK LANCE 50
36.48 STEVEN PETERSON 46	2:48.77 RANDY BROWN 45	11:37.82 ROGER BOSVELD 53	1:26.20 WALTER MEARES 50
36.64 JAMES GOODWIN 46	2:49.14 DAVID UGARKOVICH 45	11:38.83 VINCE HERRING 50	1:26.28 LEE KELLER 50
100 M. BRST M E N 45-49	400 M. I.M. M E N 45-49	11:43.06 KAL RAUSTIALA 50	200 M. BRST M E N 50-54
1:12.98 ROBERT STRAND 92	5:12.03 BOB MOMSEN 92	1500 M. FREE M E N 50-54	2:52.64 RICHARD BOYD 93
1:14.17 ROBERT STRAND 47	5:17.19 JOHN CALVERT 47	19:19.43 ED CAZALET 93	2:52.64 RICHARD BOYD 50
1:18.28 WAYNE MC CAULEY 45	5:28.75 BRUCE FISHER 45	19:19.43 EDWARD CAZALET 51	2:55.55 TEX HARASZTI 52
1:18.52 PAUL MENYHARTH 46	5:33.15 JOHN SULTAN 46	19:32.33 RICHARD BOYD 50	2:57.35 DRURY GALLAGHER 54
1:19.67 ROBERT DAVIDSON 45	5:36.79 R. TOD SPIEKER 45	20:12.98 TEX HARASZTI 52	2:58.06 THOMAS BOAK 50
1:19.86 GARY PARLAPIANO 46	5:42.74 GAARD ARNESON 45	20:15.42 ROBERT WILLIAMS 51	3:01.02 VIRGIL LUKEN 50
1:20.32 ROBIN KLEFFMAN 45	5:46.92 BRETT SORGE 46	20:38.07 STEVEN THRASHER 51	3:01.72 PHILLIP WHITTEN 50
1:21.22 TOM BOAK 49	5:50.61 WILLIAM CERNY 45	21:26.02 ROGER BOSVELD 54	3:08.79 PETER BETZER 51
1:21.92 DAVE GEMMILL 45	5:51.91 HOP BAILEY 46	21:26.68 BOB COALE 53	3:13.22 DAVID SZUCH 50
1:22.02 ED NESSEL 48	5:53.58 BOB KOLONKOWSKI 45	21:59.27 EDWARD WALLEN 50	3:14.25 RICHARD DOERR 50
1:22.59 ROBERT SCOTT 47	5:57.77 KEITH BELL 45	22:29.67 DAVID SZUCH 50	3:15.58 WALTER MEARES 50
200 M. BRST M E N 45-49	*****	22:48.42 BEN WISCKOL 53	50 M. FLY M E N 50-54
2:41.88 PETER WISNER 92	50 M. FREE M E N 50-54	50 M. BACK M E N 50-54	28.19 KEEFE LODWIG 93
2:43.53 ROBERT STRAND 47	26.16 DON HILL 83	30.93 JOHN SMITH 88	28.19 KEEFE LODWIG 50
2:52.61 DAVE GEMMILL 45	26.37 STEVE CLARK 50	32.16 ROBERT SMITH 50	28.93 STEVE CLARK 50
2:54.06 WAYNE MCCAULEY 45	26.51 KEEFE LODWIG 50	32.44 RICHARD BURNS 50	29.22 JAMES ELDER 50
3:00.01 ALLEN MURRAY 48	26.69 TIMOTHY GARTON 50	33.69 RICHARD BASSI 52	29.24 ROBERT WILLIAMS 51
3:01.94 TOM BOAK 49	26.80 JAMES ELDER 50	33.72 STEVE THRASHER 51	29.40 RICHARD BASSI 52
3:02.85 JOHN SULTAN 46	27.16 JAMES WHITE 51	34.64 FRANS NELSON 51	29.50 MICHAEL MEALIFFE 53
3:04.42 ROBERT SCOTT 47	27.29 ROBERT SMITH 50	34.77 PETER BETZER 51	29.84 JAMES WHITE 51
3:06.08 PHIL WHITTEN 49	28.10 JACK GEOGHEGAN 51	35.48 JACK GEOGHEGAN 51	30.38 RICHARD BURNS 50
3:07.47 ED NESSEL 48	28.46 RICHARD BASSI 52	35.67 MICHAEL MEALIFFE 53	30.64 ROBERT BENNETT 50
3:08.26 JIM PELISSIER 49	28.47 THOMAS OLANDER 51	35.77 HUGH RODDIN 51	30.96 BERT PETERSEN 54
50 M. FLY M E N 45-49	28.50 ROBERT WILLIAMS 51	35.86 TEX HARASZTI 51	100 M. FLY M E N 50-54
27.12 DAN THOMPSON 92	100 M. FREE M E N 50-54	100 M. BACK M E N 50-54	1:05.83 TIMOTHY GARTON 92
28.14 ANDREW MCPHERSON 46	58.62 TIMOTHY GARTON 93	1:09.82 RICHARD BURNS 93	1:05.83 TIMOTHY GARTON 50
29.52 ROBIN KLEFFMAN 45	58.62 TIMOTHY GARTON 50	1:09.82 RICHARD BURNS 50	1:08.42 STEVE CLARK 50
29.78 MICHAEL SLENKER 47	59.22 STEVE CLARK 50	1:12.69 EDWARD CAZALET 50	1:08.89 RICHARD BURNS 50
29.90 RAWDY BROWN 45	1:00.43 KEEFE LODWIG 50	1:12.99 STEVEN THRASHER 51	1:11.02 PETER COMBES 52
30.02 MAX HEIDENREICH 47	1:00.85 JAMES ELDER 50	1:14.79 RICHARD BASSI 52	1:11.26 ERIC SNYDER 50
30.05 GARY LANGENDOEN 47	1:01.42 EDWARD CAZALET 50	1:15.98 ALLEN NEULS 50	1:11.60 JAMES ELDER 50
30.26 C.D. NIELSEN 47	1:02.16 JAMES WHITE 51	1:17.71 PETER BETZER 51	1:13.76 JACK GEOGHEGAN 51
30.27 MIKE GARIABALDI 47	1:02.91 JACK GEOGHEGAN 51	1:17.88 TEX HARASZTI 52	1:13.76 ROBERT BENNETT 50
30.40 E.RUDLOFF 46	1:03.45 ROBERT SMITH 50	1:17.96 ROBERT SMITH 50	1:14.01 BERT PETERSEN 54
30.64 JAMES KAUFFMAN 45	1:03.61 ROBERT WILLIAMS 51	1:18.78 HUGH RODDIN 51	1:14.72 MIKE LAUX 51
100 M. FLY M E N 45-49	1:03.72 RICHARD BASSI 52	1:19.87 ORRIN NORDSTROM 52	

TOP TEN

Long Course Meters

200 M. FLY M E N 50-54	2:39.18 JERRY KATZ 55	3:09.52 BARR CLAYSON 58	4:03.73 WAYNE PICKERING 56
2:33.79 BILL YORZYK 83	400 M. FREE M E N 55-59	50 M. BRST M E N 55-59	200 M. I.M. M E N 55-59
2:53.89 JAMES ELDER 50	4:58.41 BURWELL JONES 88	34.20 JOHN KORTHEUER 88	2:43.57 BURWELL JONES 90
3:01.37 HUGH RODDIN 51	5:09.76 DAVID HARRISON 55	37.74 BOB PATTEN 59	2:47.03 JOHN SMITH 55
3:01.79 KAL RAUSTIALA 50	5:16.87 ROBERT PROEBSTING 55	37.99 MILTON GEE 56	2:56.18 ERNIE LESKOVITZ 56
3:08.21 DAVID SZUCH 50	5:20.57 ERNIE LESKOVITZ 56	39.48 DICK PETERSON 56	2:57.51 JACK BEATTIE 58
3:09.65 MEL GOLDSTEIN 54	5:28.93 C.LEBOURGEOIS 59	40.17 STANLEY PANKO 55	3:00.12 W.ROBERTSON 57
3:13.95 GERALD SIMPSON 51	5:34.05 BILL STEUART 56	40.22 GORDON SELICK 58	3:01.05 DICK PETERSON 56
3:20.27 ALLEN NEULS 50	5:36.40 SAM JONES 57	40.25 BILL KANSAS 57	3:02.47 JACK HALLIDAY 56
3:23.16 VINCE HERRING 50	5:38.74 RICHARD HANLY 57	40.46 RAYMOND BELLEM 56	3:04.10 LARRY GOOD 59
3:23.45 MARTIN HAHM 52	5:46.23 LARRY GOOD 59	40.52 BARR CLAYSON 58	3:04.91 C.LE BOURGEOIS 59
3:46.43 KEITH BARTON 54	5:52.47 BOB BAILIE 57	40.73 JERRY KATZ 55	3:05.57 PETE MAGEE 55
200 M. I.M. M E N 50-54	5:53.93 TELFAIR MAHAFFY 57	40.81 RON MUGAVIN 56	3:07.56 SAM JONES 57
2:28.70 TIMOTHY GARTON 93	800 M. FREE M E N 55-59	100 M. BRST M E N 55-59	400 M. I.M. M E N 55-59
2:28.70 TIMOTHY GARTON 50	10:27.08 BURWELL JONES 88	1:17.87 JOHN KORTHEUER 88	5:53.53 BURWELL JONES 90
2:35.46 RICHARD BOYD 50	10:36.56 DAVID HARRISON 55	1:24.38 BOB PATTEN 59	6:20.41 ERNIE LESKOVITZ 56
2:36.79 EDWARD CAZALET 51	11:08.12 ERNIE LESKOVITZ 56	1:27.23 JACK HALLIDAY 56	6:41.99 JACK HALLIDAY 56
2:39.36 TEX HARASZTI 52	11:08.21 ROBERT PROEBSTING 55	1:28.25 DICK PETERSON 56	6:48.53 BARRY FASBENDER 56
2:41.19 ALLEN NEULS 50	11:15.04 C.LEBOURGEOIS 59	1:28.31 MILTON GEE 56	6:50.01 DICK PETERSON 56
2:43.28 DRURY GALLAGHER 54	11:36.94 BILL STEUART 56	1:31.67 LANDON KIRCHNER 55	6:52.63 LANDON KIRCHNER 55
2:46.44 STEVEN THRASHER 51	11:56.93 LARRY GOOD 59	1:32.01 BILL KANSAS 57	6:56.48 ROBERT NORRIS 55
2:47.12 RICHARD BURNS 50	12:24.23 ROBERT NORRIS 55	1:33.11 GORDON SELICK 58	7:24.72 JAMES JOHNSEN 58
2:47.65 ROBERT WILLIAMS 51	12:39.86 LANDON KIRCHNER 55	1:33.34 RAYMOND BELLEM 56	7:27.66 PAUL BORG 56
2:53.17 ORRIN NORDSTROM 52	12:45.18 BARRY FASBENDER 55	1:33.87 RON MUGAVIN 56	7:36.22 MIKE MILLIMAN 58
400 M. I.M. M E N 50-54	12:46.87 PAUL BORG 56	1:33.99 WILLIAM DAVIS 59	7:36.36 JOHN TRAINER 55
5:25.32 TIMOTHY GARTON 93	1500 M. FREE M E N 55-59	200 M. BRST M E N 55-59	*****
5:25.32 TIMOTHY GARTON 50	19:54.72 BURWELL JONES 90	2:58.83 MANUEL SANGUILY 88	50 M. FREE M E N 60-64
5:30.41 RICHARD BOYD 50	20:51.05 ROBERT PROEBSTING 56	3:07.97 BOB PATTEN 59	27.86 DONALD HILL 92
5:35.45 EDWARD CAZALET 51	21:42.61 C.LE BOURGEOIS 59	3:12.28 DICK PETERSON 56	29.02 CHUCK BALDWIN 63
5:47.88 DRURY GALLAGHER 54	22:05.35 ERNIE LESKOVITZ 56	3:17.08 JACK HALLIDAY 56	29.42 YOSHI OYAKAWA 60
6:01.36 ROBERT WILLIAMS 51	22:08.59 BILL STEUART 56	3:19.17 MILTON GEE 56	30.21 BOB BEST 60
6:02.58 ALLEN NEULS 50	22:20.89 GEORGE BRUNSTAD 58	3:25.47 BILL KANSAS 57	30.99 WILLIAM DOLAN 64
6:27.72 RICHARD DOERR 50	23:04.01 LARRY GOOD 59	3:26.41 BARR CLAYSON 58	31.08 DICK WEBBER 63
6:27.74 KAL RAUSTIALA 50	23:13.07 PETE MAGEE 55	3:26.63 LANDON KIRCHNER 55	31.11 JOHN KORTHEUER 62
6:28.45 GERALD SIMPSON 51	23:16.03 ROBERT NORRIS 55	3:28.38 WILLIAM DAVIS 59	31.36 DICK BOWER 63
6:29.06 DAVID SZUCH 50	23:23.30 LEE BETTIS 55	3:29.62 RON MUGAVIN 56	31.44 LARRY SHANNON 60
*****	23:39.09 DAVID FORTSCH 59	3:30.73 PETER CRUMBINE 55	31.65 DONALD BAKER 62
50 M. FREE M E N 55-59	50 M. BACK M E N 55-59	50 M. FLY M E N 55-59	31.80 RICHARD BENNETT 62
27.42 MICHAEL MUCKLER OY88	32.94 YOSHI OYAWAKA 92	30.17 ROBERT PROEBSTING92	100 M. FREE M E N 60-64
27.91 BOB BAILIE 57	33.72 JOHN SMITH 55	30.19 ROBERT PROEBSTING 56	1:02.80 DONALD HILL 92
28.69 ROBERT PROEBSTING 55	35.31 JACK BEATTIE 58	30.85 JOHN SMITH 55	1:06.52 CHUCK BALDWIN 63
28.88 JERRY KATZ 55	35.85 SHELDON MONSEIN 59	31.07 BOB BAILIE 57	1:07.11 YOSHI OYAKAWA 60
30.07 DAVID PAINTER 55	36.76 BILL EARLEY 56	33.25 JERRY KATZ 55	1:07.43 GRAHAM JOHNSTON 62
30.23 JERRY MYERS 55	37.23 JOHN GOODE 59	33.47 WAYNE PICKERING 56	1:10.09 BOB BEST 60
30.26 TOMMY KEHOE 58	37.30 LEE BETTIS 55	33.54 BILL STEUART 56	1:10.42 DAVE ANDERSON 61
30.26 JACK BEATTIE 58	37.39 MARSHALL GREER 56	33.66 JOHN EBERLY 55	1:11.57 DICK BOWER 63
30.29 PETER CRUMBINE 55	37.44 ROBERT NORRIS 55	34.27 W.ROBERTSON 57	1:12.28 DONALD BAKER 62
30.42 J STEPHEN MOSELEY 55	37.63 CARL CHRISTENSEN 55	34.76 C.LE BOURGEOIS 59	1:12.59 LARRY SHANNON 60
30.79 BILL EARLEY 56	37.66 JOHN TRAINER 55	35.28 DICK PETERSON 56	1:12.81 RICHARD BENNETT 62
100 M. FREE M E N 55-59	100 M. BACK M E N 55-59	100 M. FLY M E N 55-59	1:12.87 FRED LEHMAN 62
1:01.95 BOB BAILIE 91	1:13.15 JACK BEATTIE 90	1:10.28 ROBERT PROEBSTING92	200 M. FREE M E N 60-64
1:02.51 BOB BAILE 57	1:15.25 JOHN SMITH 55	1:11.28 ROBERT PROEBSTING 56	2:23.11 DONALD HILL 92
1:03.17 ROBERT PROEBSTING 55	1:17.95 JACK BEATTIE 58	1:15.30 ERNIE LESKOVITZ 56	2:25.82 GRAHAM JOHNSTON 62
1:05.95 W.ROBERTSON 57	1:18.39 RICHARD HANLY 57	1:22.25 TELFAIR MAHAFFY 57	2:40.70 DAVE ANDERSON 61
1:07.37 ERNIE LESKOVITZ 56	1:19.68 ROBERT NORRIS 55	1:23.21 BOB PATTEN 59	2:41.55 BOB BEST 60
1:07.55 RICHARD HANLY 57	1:20.97 SHELDON MONSEIN 59	1:24.52 BOB BAILIE 57	2:44.17 BOB HERITIER 64
1:08.19 JACK BEATTIE 58	1:21.44 LEE BETTIS 55	1:24.88 JACK BEATTIE 58	2:44.94 ARTHUR WELCH 60
1:08.77 DAVID HARRISON 55	1:25.11 BILL EARLEY 56	1:25.01 JOHN EBERLY 55	2:45.23 FRED LEHMAN 62
1:09.18 PETER CRUMBINE 55	1:25.32 MARSHALL GREER 56	1:25.47 C.LEBOURGEOIS 59	2:47.33 RICHARD BENNETT 62
1:09.50 LEE BETTIS 55	1:25.80 LARRY GOOD 59	1:27.83 BARRY FASBENDER 56	2:47.57 BARRY BARTLE 60
1:09.72 JERRY KATZ 55	1:26.20 HENRY GLANCY 55	1:28.48 DONALD RICE 59	2:47.61 DICK BOWER 63
200 M. FREE M E N 55-59	200 M. BACK M E N 55-59	200 M. FLY M E N 55-59	2:49.59 FRED BENSON 60
2:21.53 BURWELL JONES 90	2:42.37 DON BROWN 88	2:48.42 ROBERT PROEBSTING93	400 M. FREE M E N 60-64
2:24.04 ROBERT PROEBSTING 55	2:50.46 RICHARD HANLY 57	2:48.42 ROBERT PROEBSTING 56	5:02.70 GRAHAM JOHNSTON 91
2:26.10 ERNIE LESKOVITZ 56	2:51.48 ROBERT NORRIS 55	3:13.77 TELFAIR MAHAFFY 57	5:05.91 GRAHAM JOHNSTON 62
2:26.71 BOB BAILIE 57	2:51.55 LEE BETTIS 55	3:16.98 RICHARD HANLY 57	5:34.37 BOB BEST 60
2:27.02 DAVID HARRISON 55	2:52.66 JACK BEATTIE 58	3:19.19 C.LEBOURGEOIS 59	5:46.71 ARTHUR WELCH 60
2:29.14 W.ROBERTSON 57	3:00.50 SHELDON MONSEIN 59	3:22.93 BARRY FASBENDER 55	5:47.88 DAVE ANDERSON 61
2:31.60 LEE BETTIS 55	3:01.92 HENRY GLANCY 55	3:33.21 ROBERT FOX 56	5:52.31 BOB HERITIER 64
2:33.34 C.LEBOURGEOIS 59	3:03.53 JOHN EBERLY 55	3:37.81 PAUL BORG 56	6:00.21 FRED LEHMAN 62
2:35.87 RICHARD HANLY 57	3:06.78 JACK HALLIDAY 56	3:41.90 CHARLES MAAS 59	6:04.47 C.H. KOHNKEN 61
2:38.64 JERRY MYERS 55	3:06.99 LARRY GOOD 59	3:46.10 SANDO 59	6:05.69 BARRY BARTLE 60

TOP TEN

Long Course Meters

6:07.18 RICHARD BENNETT	62	41.72 JOHN BLECK	60	3:20.11 RON JOHNSON	61	14:06.87 JORDAN WOLLE	65
6:07.65 DENIS RICE	60	41.82 JOHN LENARD	62	3:21.08 JOHN BLECK	60	14:07.26 ELMER SCHNITZER	65
800 M. FREE M E N 60-64		100 M. BRST M E N 60-64		400 M. I.M. M E N 60-64		14:19.78 DOUGLAS STRONG	68
10:36.09 GRAHAM JOHNSTON	91	1:21.58 JOHN KORTHEUER	91	6:04.99 GRAHAM JOHNSTON	91	1500 M. FREE M E N 65-69	
10:36.08 GRAHAM JOHNSON	62NV	1:21.68 MANUEL SANGUILY	60	6:06.37 GRAHAM JOHNSTON	62	22:29.32 WINTHROP WILSON	92
11:42.50 DAVE ANDERSON	61	1:23.03 JOHN KORTHEUER	62	6:19.40 DON BROWN	60	22:50.83 FRANK PIEMME	68
11:50.89 ARTHUR WELCH	60	1:26.00 BOB BEST	60	6:39.83 BOB BEST	60	23:02.93 ROGER FRANKS	66
12:40.20 C.H. KOHNKEN	61	1:29.84 TAK ISERI	61	6:49.60 HERB KERN	61	24:47.37 FRED TRASK	65
12:40.99 THOMAS TAYLOR	62	1:30.89 JOHNNY CRAWFORD	61	7:22.65 GORDON GILLIN	62	25:25.52 MORRIS MATHEWS	65
12:43.40 BOB HERITIER	64	1:33.08 ROGER HOEL	60	7:30.65 N.M. BERENYI	60	26:10.92 ROBERT BLAKE	68
13:01.74 DICK BOWER	63	1:33.31 THOMAS TAYLOR	62	7:38.60 C.H. KOHNKEN	61	26:44.35 LOU SILVERSTEIN	67
13:05.95 BILL HEBERT	62	1:33.53 JOHN BLECK	60	7:43.50 EDUARD SCHANER	63	26:52.54 LEE ARTH	68
13:13.20 ROGER CAMPBELL	62	1:34.87 DONALD BROWN	60	7:51.38 STEPHEN MULLINS	61	27:05.32 BRUNO WEBER	66
13:24.74 JAMES PITTS	63	1:35.35 GENE SAPPER	63	7:53.64 MILTON MARKS	62	27:42.68 TED HAARTZ	65
1500 M. FREE M E N 60-64		200 M. BRST M E N 60-64		*****		27:53.75 RICHARD DANIEL	67
20:06.80 GRAHAM JOHNSTON	91	3:08.59 JOHN KORTHEUER	91	50 M. FREE M E N 65-69		50 M. BACK M E N 65-69	
20:21.13 GRAHAM JOHNSTON	62	3:13.89 BOB BEST	60	29.17 PETER POWLISON	87	35.47 GEORGE GANDSEY	89
22:34.85 ARTHUR WELCH	60	3:14.50 JOHN KORTHEUER	62	30.40 FRANK PIEMME	68	36.40 PAUL HUTINGER	68
23:50.44 BARNEY HUNGERFORD	60	3:16.78 JOHNNY CRAWFORD	61	30.92 MILTON SENS	67	38.93 FLOYD ELIOTT	66
24:20.33 DENIS RICE	61	3:25.14 TAK ISERI	61	31.03 BOB HERITIER	65	39.64 ELI GOLDFARB	68
24:26.68 THOMAS TAYLOR	62	3:28.79 JOHN BLECK	60	31.69 WILLIAM IRWIN	65	39.84 ROGER FRANKS	66
24:28.08 C.H. KOHNKEN	61	3:29.06 ROGER HOEL	60	31.92 PAUL HUTINGER	68	40.12 RALPH PERRY	66
24:38.37 BILL HEBERT	62	3:30.35 THOMAS TAYLOR	62	32.57 ROBERT BLAKE	68	40.22 CHARLES MOSS	65
24:45.95 JOHN BLECK	60	3:31.34 ROBERT KUENY	62	32.60 CHARLES MOSS	65	40.33 GEORGE GANDSEY	69
24:58.67 BARRY BARTLE	60	3:34.55 N.M. BERENYI	60	32.74 W.H. PHILLIPS	65	40.41 BOB WHITE	66
25:11.37 BUD SCHUMACHER	63	3:36.44 DAN GRUENDER	63	32.78 RICHARD LEIGH	68	40.99 WILLIAM HAYNES	67
50 M. BACK M E N 60-64		50 M. FLY M E N 60-64		32.83 PERRY ROCKWELL	68	41.18 ROBERT BLOEBAUM	66
33.74 YOSHI OYAKAWA	93	32.19 FRANK PIEMME	85	100 M. FREE M E N 65-69		100 M. BACK M E N 65-69	
33.74 YOSHI OYAKAWA	60	33.15 CHUCK BALDWIN	63	1:08.15 JAMES WELCH	83	1:20.74 ROGER FRANKS	92
35.53 DON BROWN	60	33.66 JOHN KORTHEUER	62	1:10.78 FRANK PIEMME	68	1:21.14 PAUL HUTINGER	68
37.33 GRAHAM JOHNSTON	62	34.32 BOB BEST	60	1:11.45 BOB HERITIER	65	1:21.53 ROGER FRANKS	66
37.97 CLARKE MITCHELL	60	34.86 RON JOHNSON	61	1:12.85 ROBERT BLAKE	68	1:25.50 FLOYD ELIOTT	66
38.04 RICHARD BENNETT	62	35.01 LARRY SHANNON	60	1:13.77 FRED TRASK	65	1:27.22 ELI GOLDFARB	68
38.51 RON JOHNSON	61	35.14 HERB KERN	61	1:13.82 WILLIAM PHILLIPS	65	1:29.39 BOB WHITE	66
39.38 WILLIAM PECKHAM	64	36.89 DICK WEBBER	63	1:14.24 CHARLES MOSS	65	1:30.01 WILLIAM HAYNES	67
40.19 DOUGLAS DONER	60	37.04 ROBERT BADGER	62	1:14.30 WILLIAM IRWIN	65	1:31.98 GEORGE GANDSEY	69
40.24 ROY HEWITT	60	37.45 AARON KURTZMAN	63	1:14.33 MILTON SENS	67	1:33.66 RALPH PERRY	66
40.26 ELVIN CHOONG	60	37.47 DICK BOWER	63	1:15.61 ELMER SCHNITZER	65	1:33.74 TED HAARTZ	65
100 M. BACK M E N 60-64		100 M. FLY M E N 60-64		1:15.81 BOB WHITE	66	1:34.00 DALE WEBSTER	67
1:15.66 DON BROWN	93	1:17.39 WIN WILSON	88	200 M. FREE M E N 65-69		200 M. BACK M E N 65-69	
1:15.66 DON BROWN	60	1:21.13 MANUEL SANGUILY	60	2:32.90 PETER POWLISON	87	2:55.46 ROGER FRANKS	92
1:16.51 YOSHI OYAKAWA	60	1:22.28 BOB BEST	60	2:41.37 FRANK PIEMME	68	2:57.68 ROGER FRANKS	66
1:20.50 GRAHAM JOHNSTON	62	1:26.09 HERB KERN	61	2:41.76 BOB HERITIER	65	3:04.37 PAUL HUTINGER	68
1:23.02 RICHARD BENNETT	62	1:29.26 LARRY SHANNON	60	2:42.21 WILLIAM PHILLIPS	65	3:11.63 FLOYD ELIOTT	66
1:23.64 CLARKE MITCHELL	60	1:30.14 ARTHUR WELCH	60	2:44.36 ROGER FRANKS	66	3:16.03 BOB WHITE	66
1:26.32 ROY HEWITT	60	1:30.57 GRAHAM JOHNSON	62	2:46.33 FRED TRASK	65	3:17.91 ELI GOLDFARB	68
1:28.37 STAN MC CONNELL	61	1:31.97 JOHN LENARD	62	2:50.20 WILLIAM IRWIN	65	3:23.35 RALPH PERRY	66
1:28.47 HORACE KNOWLTON	64	1:32.00 DONALD MCBRIDE	62	2:51.08 BOB WHITE	66	3:27.13 GEORGE GANDSEY	69
1:29.28 BOB BEST	60	1:34.65 RON JOHNSON	61	2:52.12 ROBERT BLAKE	68	3:28.68 LOU SILVERSTEIN	67
1:31.36 KENNETH KIMBALL	63	1:35.44 ROBERT KUENY	62	2:56.40 ERIC YOUNGQUIST	65	3:29.57 DALE WEBSTER	67
200 M. BACK M E N 60-64		200 M. FLY M E N 60-64		2:57.98 MORGAN BYERS	65	3:31.74 TED HAARTZ	65
2:45.93 DON BROWN	93	3:00.99 JOHN MASTERS	90	400 M. FREE M E N 65-69		50 M. BRST M E N 65-69	
2:45.93 DON BROWN	60	3:20.79 HERB KERN	61	5:38.79 JAMES WELCH	83	38.28 JOSEPH KURTZMAN	91
2:53.51 GRAHAM JOHNSON	62	3:32.41 BOB BEST	60	5:42.60 FRANK PIEMME	68	38.88 CHARLES MOSS	65
3:01.80 RICHARD BENNETT	62	3:37.02 LARRY SHANNON	60	5:45.34 WILLIAM PHILLIPS	65	40.28 JOSEPH KURTZMAN	67
3:03.87 YOSHI OYAKAWA	60	3:49.39 BENJAMIN TARLTON	63	5:50.48 BOB HERITIER	65	41.07 BARTON GREENBERG	69
3:08.91 STAN MC CONNELL	61	3:51.06 GORDON GILLIN	62	5:56.11 ROGER FRANKS	66	41.26 TED HAARTZ	65
3:09.21 BOB BEST	60	3:56.23 N.M. BERENYI	60	6:07.28 CHARLES MOSS	65	42.52 MORRIS MATHEWS	65
3:13.01 ROY HEWITT	60	3:57.64 C.H. KOHNKEN	61	6:09.57 FRED TRASK	65	42.71 PAUL HUTINGER	68
3:13.14 CLARKE MITCHELL	60	4:01.35 EDUARD SCHANER	63	6:11.26 BOB WHITE	66	42.78 FRANK PIEMME	68
3:17.24 HERB KERN	61	4:07.77 WILLIAM CANNON	63	6:18.62 JOHN ALLEVA	65	43.02 LEE MIESEN	66
3:23.17 RALPH COXHEAD	64	4:08.46 JOHN BAUMAN	63	6:18.70 BRUNO WEBER	66	43.06 ARNIE FORMO	66
50 M. BRST M E N 60-64		200 M. I.M. M E N 60-64		6:21.93 ROBERT BLAKE	68	43.09 AUGUST MOTMANS	65
35.91 JOHN KORTHEUER	91	2:50.08 GRAHAM JOHNSTON	93	800 M. FREE M E N 65-69		100 M. BRST M E N 65-69	
35.93 MANUEL SANGUILY	60	2:50.08 GRAHAM JOHNSON	62	11:51.06 FRANK PIEMME	93	1:28.91 JOSEPH KURTZMAN	91
36.69 JOHN KORTHEUER	62	2:51.24 DON BROWN	60	11:51.06 FRANK PIEMME	68	1:32.24 BARTON GREENBERG	69
37.06 BOB BEST	60	3:02.58 BOB BEST	60	11:53.84 BOB HERITIER	65	1:34.63 TED HAARTZ	65
38.84 CHUCK BALDWIN	63	3:06.37 MANUEL SANGUILY	60	13:01.59 FRED TRASK	65	1:36.23 JOSEPH KURTZMAN	67
39.74 JOHNNY CRAWFORD	61	3:06.60 HERB KERN	61	13:57.24 LEE ARTH	68	1:36.77 MORRIS MATHEWS	65
40.66 TAK ISERI	61	3:16.84 JOHN LENARD	62	13:58.14 WAYNE SHADBOLT	69	1:36.88 LEE MIESEN	66
40.98 MILTON MARKS	63	3:17.73 STAN MC CONNELL	61	13:58.36 ROBERT BLAKE	68	1:37.68 FRANK PIEMME	68
41.03 THOMAS TAYLOR	62	3:19.20 ROBERT KUENY	62	14:06.78 TED HAARTZ	65	1:37.97 GEORGE MCVEY	66

TOP TEN

Long Course Meters

1:39.69 AUGUST MOTMANS 65	7:43.38 ROBERT CUNNINGHAM 65	31:23.29 BOB ACKER 72	4:18.56 RAYMOND HAKOMAKI 72
1:40.00 ARNIE FORMO 66	7:46.81 LOU SILVERSTEIN 67	32:19.00 ERNIE SMITH 72	4:19.31 WILLIAM BROCK 71
1:40.25 EDWARD RUDLOFF 69	8:08.13 ART KELLEY 67	32:45.90 TONY VITALE 71	4:20.09 RICHARD AVERY 70
200 M. BRST M E N 65-69	*****	33:54.12 JOHN CRANCH 71	4:23.86 BILL STADIG 70
3:24.00 BARTON GREENBERG 91	50 M. FREE M E N 70-74	50 M. BACK M E N 70-74	50 M. FLY M E N 70-74
3:28.20 TED HAARTZ 65	29.35 KELLEY LEMMON 84	37.49 RAY TAFT 89	35.65 RAY TAFT 89
3:30.66 BARTON GREENBERG 69	32.54 JOHN RICHARDS 71	39.97 RAY TAFT 74	37.81 JURGEN SCHMIDT 70
3:38.46 MORRIS MATHews 65	32.61 JOHN FLORANCE 70	40.85 JOHN DILLEY 72	38.73 ANDREW HOLDEN 74
3:38.92 GEORGE MCVEY 66	33.16 RAYMOND HAKOMAKI 72	42.31 CHARLES JOHNSON 73	40.37 JOHN FLORANCE 70
3:42.06 LEE ARTH 68	33.29 ANDREW HOLDEN 74	43.37 RICHARD AVERY 70	41.38 RAYMOND TAFT 74
3:42.62 ROBERT CUNNINGHAM 65	33.65 JURGEN SCHMIDT 70	43.56 ROBERT PREBLE 70	41.89 JOHN RICHARDS 71
3:43.18 JOE KURTZMAN 67	35.06 JOHN DILLEY 72	44.20 GAETANO PAVONE 70	45.27 G.RUDLOFF 70
3:43.50 EDWARD RUDLOFF 69	35.16 ROBERT PREBLE 70	45.16 EARL WALTER 72	45.68 TOM DOWELL 71
3:45.34 LEE MIESEN 66	35.36 BALINT PAPP 71	45.89 RAYMOND HAKOMAKI 72	46.20 CECIL HULL 72
3:47.23 ROGER FRANKS 66	35.41 JAY CRADDOCK 72	47.04 ELLIOT SCHOFIELD 70	47.54 DONALD GREETHAM 71
50 M. FLY M E N 65-69	35.56 DORE SCHWAB 71	47.33 GILBERT YOUNG 71	48.26 ABRASHA BRAININ 70
33.39 FRANK PIEMME 90	100 M. FREE M E N 70-74	100 M. BACK M E N 70-74	100 M. FLY M E N 70-74
34.62 JOSEPH KURTZMAN 67	1:11.61 KELLEY LEMMON 83	1:25.35 RAY TAFT 89	1:32.85 ANDREW HOLDEN 90
34.67 FRANK PIEMME 68	1:15.36 JOHN FLORANCE 70	1:30.34 RAY TAFT 74	1:39.99 ANDREW HOLDEN 74
34.73 PAUL HUTINGER 68	1:16.47 JOHN RICHARDS 71	1:32.62 JOHN DILLEY 72	1:48.54 EARL WALTER 72
36.17 PERRY ROCKWELL 68	1:17.87 ANDREW HOLDEN 74	1:40.53 JAMES EDWARDS 70	1:52.20 RAYMOND TAFT 74
37.13 WILLIAM IRWIN 65	1:18.74 RAYMOND TAFT 74	1:41.12 ANDREW HOLDEN 74	1:55.27 BILL STADIG 70
37.90 KEITH CARTER 68	1:19.92 JURGEN SCHMIDT 70	1:41.87 RAYMOND HAKOMAKI 72	1:55.38 RICHARD SMITH 73
38.04 DON HUBBARD 66	1:20.25 JAY CRADDOCK 72	1:42.76 GAETANO PAVONE 70	1:55.50 BALINT PAPP 71
38.58 TED HAARTZ 65	1:20.51 RAYMOND HAKOMAKI 72	1:44.17 CHARLES JOHNSON 73	2:10.57 ABRASHA BRAININ 70
39.56 STANLEY PRAZER 65	1:23.36 JIM EDWARDS 70	1:44.29 ROBERT PREBLE 70	2:20.02 PAUL DECOUX 73
40.00 LUMAN SUTTON 66	1:24.48 WALT LINDSTROM 70	1:45.51 GILBERT YOUNG 71	3:12.96 JIM JOHNSON 73
100 M. FLY M E N 65-69	1:25.01 DONALD GREETHAM 71	1:47.98 TOM JACKSON 72	3:48.59 T.R. JOHNSON 71
1:20.59 JOSEPH KURTZMAN 92	200 M. FREE M E N 70-74	200 M. BACK M E N 70-74	200 M. FLY M E N 70-74
1:21.75 CHARLES MOSS 65	2:44.86 KELLEY LEMMON 83	3:13.25 RAY TAFT 89	3:39.04 ANDREW HOLDEN 90
1:25.21 JOSEPH KURTZMAN 67	2:55.04 JURGEN SCHMIDT 70	3:23.18 RAYMOND TAFT 74	3:55.79 EDWARD RUDLOFF 70
1:33.80 KEITH CARTER 68	2:58.65 JOHN FLORANCE 70	3:36.47 JOHN DILLEY 72	4:22.75 BILL STADIG 70
1:34.94 WILLIAM IRWIN 65	3:00.03 JOHN RICHARDS 71	3:44.55 JAMES EDWARDS 70	5:48.51 FRANCIS BOWDON 73
1:36.89 ROGER FRANKS 66	3:00.82 RAYMOND TAFT 74	3:45.46 GAETANO PAVONE 70	6:48.92 EARL WALTER 72
1:37.67 TED HAARTZ 65	3:06.36 JIM EDWARDS 70	3:49.45 BILL STADIG 70	7:52.59 T.R. JOHNSON 71
1:39.26 LUMAN SUTTON 66	3:13.33 DONALD GREETHAM 71	3:54.86 TOM JACKSON 72	200 M. I.M. M E N 70-74
1:39.72 DON KORTEN 66	3:14.56 WALT LINDSTROM 70	3:59.17 GILBERT YOUNG 71	3:11.42 RAY TAFT 89
1:42.18 RICHARD DANIEL 67	3:19.87 CHARLES HARRIS 72	4:01.04 JOHN CRANCH 70	3:21.95 RAY TAFT 74
1:43.53 PERRY ROCKWELL 68	3:28.97 BOB ACKER 72	4:01.95 CHARLES HARRIS 72	3:25.94 JURGEN SCHMIDT 70
200 M. FLY M E N 65-69	3:29.41 DORE SCHWAB 71	4:13.05 ELLIOT SCHOFIELD 70	3:27.09 EDWARD RUDLOFF 70
3:08.79 JOSEPH KURTZMAN 91	400 M. FREE M E N 70-74	50 M. BRST M E N 70-74	3:51.32 BALINT PAPP 71
3:11.88 CHARLES MOSS 65	6:04.62 RAY TAFT 89	41.44 BENNETT ALLEN 84	3:52.13 RAYMOND HAKOMAKI 72
3:21.10 JOESPH KURTZMAN 67	6:20.87 JURGEN SCHMIDT 70	43.29 JOHN RICHARDS 71	3:54.36 JOHN WRENN 72
3:41.34 ROGER FRANKS 66	6:35.94 WILLIAM BLANCHARD 70	44.25 EDWARD RUDLOFF 70	3:56.19 RICHARD SMITH 73
3:47.54 KEITH CARTER 68	6:41.81 JOHN FLORANCE 70	44.27 TOM DOWELL 71	4:01.20 TOM MC CALL 70
3:58.45 ARTHUR KOBLSH 69	6:48.11 GILBERT YOUNG 71	44.77 JOHN FLORANCE 70	4:02.16 BILL STADIG 70
4:01.15 ART KELLEY 67	6:48.96 JIM EDWARDS 70	46.24 RALPH BROOK 74	4:19.20 BOB ACKER 72
4:15.66 LEONARD OLGUIN 67	6:52.85 FRED TAIOLI 72	46.34 BOB COWLING 70	400 M. I.M. M E N 70-74
4:32.34 FRED ECKHARDT 67	7:09.07 RICHARD SMITH 73	46.48 ABRASHA BRAININ 70	6:59.24 RAY TAFT 89
4:46.19 WARREN FOSTER 68	7:15.59 WALT LINDSTROM 70	47.54 CECIL HULL 72	7:20.87 RAY TAFT 74
4:51.53 DONALD DUNNING 67	7:21.50 DONALD GREETHAM 71	49.73 RAYMOND HAKOMAKI 72	7:36.99 EDWARD RUDLOFF 70
200 M. I.M. M E N 65-69	7:26.35 CHARLES HARRIS 72	50.06 WILLIAM BROCK 71	7:54.94 JOHN WRENN 72
2:57.61 CHARLES MOSS 93	800 M. FREE M E N 70-74	100 M. BRST M E N 70-74	8:13.51 EARL WALTER 72
2:57.61 CHARLES MOSS 65	12:36.65 FRED TAIOLI 91	1:33.20 BENNETT ALLEN 84	8:30.02 RICHARD SMITH 73
3:13.02 FRANK PIEMME 68	13:07.59 RAY TAFT 74	1:40.35 EDWARD RUDLOFF 70	8:31.22 BILL STADIG 70
3:16.66 PAUL HUTINGER 68	13:24.33 JURGEN SCHMIDT 70	1:40.84 JOHN RICHARDS 71	9:44.87 BOB ACKER 72
3:23.95 LUMAN SUTTON 66	13:26.32 FRED TAIOLI 72	1:45.78 ABRASHA BRAININ 70	13:35.10 T.R. JOHNSON 71
3:24.34 TED HAARTZ 65	13:52.63 JOHN RICHARDS 71	1:46.93 RAYMOND HAKOMAKI 72	*****
3:24.98 DON KORTEN 66	14:19.17 GILBERT YOUNG 71	1:47.26 TOM DOWELL 71	50 M. FREE M E N 75-79
3:28.47 W.H PHILLIPS 65	14:20.68 JAMES EDWARDS 70	1:48.90 CHARLES JOHNSON 73	32.50 LYLE COLLET 83
3:30.57 JOHN DAILY 65	15:03.38 PETER LEE 70	1:49.97 RALPH BROOK 74	35.00 LYNN SURLES 76
3:31.17 PERRY ROCKWELL 68	15:03.64 RICHARD SMITH 73	1:51.99 CECIL HULL 72	35.49 BARNET PHILLIPS 75
3:31.84 LEE ARTH 68	15:10.58 ELLIOT SCHOFIELD 70	1:53.31 TOM MCCALL 70	35.65 ALDO DA ROSA 75
400 M. I.M. M E N 65-69	15:18.39 JOHN WRENN 72	1:56.00 RICHARD AVERY 70	35.65 FRANK HAVLICEK 75
6:25.02 CHARLES MOSS 93	1500 M. FREE M E N 70-74	200 M. BRST M E N 70-74	35.90 OBEL JAMES 78
6:25.02 CHARLES MOSS 65	24:28.27 FRED TAIOLI 91	3:32.90 ALDO DA ROSA 88	35.94 PETE OKUMOTO 76
7:01.25 ROGER FRANKS 66	25:31.35 JURGEN SCHMIDT 70	3:41.48 EDWARD RUDLOFF 70	36.17 JERRY SIEFERT 75
7:03.32 FRANK PIEMME 68	26:36.60 FRED TAIOLI 72	3:54.81 ABRASHA BRAININ 70	36.26 ROBERT KNAPP 76
7:16.86 PAUL HUTINGER 68	27:16.58 GILBERT YOUNG 71	4:07.31 JOHN WRENN 72	36.36 HARRY CLASS 77
7:26.27 LUMAN SUTTON 66	27:47.22 RICHARD SMITH 73	4:14.03 TOM MC CALL 70	36.90 JAMES EUBANK 78
7:31.32 LEE ARTH 68	27:47.45 RAYMOND TAFT 74	4:17.11 EARL WALTER 72	100 M. FREE M E N 75-79
7:39.43 EDWARD RUDLOFF 69	28:03.32 JIM EDWARDS 70	4:18.35 TOM DOWELL 71	1:14.86 KELLEY LEMMON 87

TOP TEN

Long Course Meters

1:21.64 LYNN SURLS	76	1:37.39 EDWARD SHEA	78	1:45.74 PAUL KRUP	75	4:27.64 ALLAN SACHS	80
1:21.79 ALDO DA ROSA	75	1:38.13 NORRIS FLUKE	76	1:48.74 ALDO DA ROSA	75	4:29.52 LEONARD BRISCO	81
1:24.34 FRANK HAVLICEK	75	1:38.44 ALDO DA ROSA	75	2:06.79 DON MCCULLOUGH	77	4:38.78 JAMES MITCHELL	81
1:24.35 PETE OKUMOTO	76	1:42.12 EDWARD MORAN	75	2:08.54 WILLIAM JOHNSTON	75	400 M. FREE M E N 80-84	
1:26.31 GUS CLEMENS	75	1:42.19 ALBERT VANDEWEGHE	76	2:14.96 WILLIAM GRANT	79	7:23.09 GUS LANGNER	83
1:27.03 NORRIS FLUKE	76	1:43.37 BILL WOOSLEY	75	2:21.84 CAL SCHAEFFER	75	7:41.01 WOODY BOWERSOCK	80
1:27.03 OBEL JAMES	78	1:43.55 EDWARD JOHNSON	75	2:22.13 NELSON OTIS	77	8:05.78 DAVE MALBROUGH	80
1:27.05 ED NAKAMURA	77	1:44.93 BRION WINSHIP	75	2:37.15 JOHN JOHNSTON	77	8:34.11 DAVID MCAFFEE	83
1:27.42 JERRY SIEFERT	75	1:54.54 WILLIAM PATTEN	75	2:38.09 JACK MATTINGLY	79	8:52.77 C.B SUNDERLAND	84
1:27.51 HARRY CLASS	77	1:59.18 HANS KOLB	78	3:11.67 TONY PALMIERI	75	9:02.35 LLOYD OSBORNE	83
200 M. FREE M E N 75-79		200 M. BACK M E N 75-79		200 M. FLY M E N 75-79		9:12.48 TEX ROBERTSON	84
2:53.73 KELLEY LEMMON	87	3:25.93 EDWARD SHEA	91	3:43.56 ANTON CERER	92	9:12.77 FRED WALBOLT	80
3:05.66 ALDO DA ROSA	75	3:30.95 EDWARD SHEA	78	4:11.48 PAUL KRUP	75	9:28.17 LEONARD BRISCO	81
3:14.75 NORRIS FLUKE	76	3:36.89 NORRIS FLUKE	76	4:38.27 DON MCCULLOUGH	77	9:30.99 JAMES MITCHELL	81
3:15.91 PETE OKUMOTO	77	3:41.24 ALBERT VANDEWEGHE	76	5:33.51 WILLIAM JOHNSTON	75	10:12.48 OTTO HAHN	80
3:16.21 AUSTIN NEWMAN	77	3:47.75 EDWARD MORAN	75	5:43.15 JOHN JOHNSTON	77	800 M. FREE M E N 80-84	
3:16.66 OBEL JAMES	78	3:48.04 JOHN MERRILL	76	8:00.59 JOE RUDDLEY	78	15:53.13 GUS LANGNER	85
3:17.96 FRANK MURPHY	75	3:51.63 BRION WINSHIP	75	200 M. I.M. M E N 75-79		16:49.05 DAVE MALBROUGH	80
3:19.01 EDWARD MORAN	75	3:55.62 BILL WOOSLEY	75	3:30.50 KELLEY LEMMON	87	17:12.84 WOODY BOWERSOCK	80
3:24.31 GUS CLEMENS	75	4:13.02 JIM TRIOLO	79	3:33.04 ALDO DA ROSA	75	18:34.77 LLOYD OSBORNE	83
3:26.40 DICK GUIDO	76	4:18.55 MICHAEL OFFNER	78	3:49.91 NORRIS FLUKE	76	19:12.74 TEX ROBERTSON	84
3:29.40 JERRY SIEFERT	75	4:20.19 ROGER CHAMBERLAIN	76	3:55.01 FRANK HAVLICEK	75	19:58.41 JAMES MITCHELL	81
400 M. FREE M E N 75-79		50 M. BRST M E N 75-79		4:14.05 JERRY SIEFERT	75	20:06.67 LEONARD BRISCO	81
6:27.76 ARTHUR RULE	81	43.61 BENNETT ALLEN	89	4:22.46 RUSS WITTE	76	21:48.87 RICHARD KANE	82
6:43.84 ALDO DA ROSA	75	44.32 PAUL KRUP	75	4:26.38 NELSON OTIS	77	27:56.30 LARRY HART	81
6:55.18 NORRIS FLUKE	76	44.83 ALDO DA ROSA	75	4:27.39 ROGER CHAMBERLAIN	76	1500 M. FREE M E N 80-84	
6:55.80 FRANK MURPHY	75	46.83 RUSS WITTE	76	4:41.74 WILLIAM GRANT	79	28:54.95 GUS LANGNER	83
7:06.70 PETE OKUMOTO	76	47.63 BENNETT ALLEN	79	4:47.27 WILLIAM JOHNSTON	75	31:13.13 HERBERT HOWE	81
7:07.68 AUSTIN NEWMAN	77	48.27 BRUD CLEVELAND	75	4:52.79 JOHN JOHNSTON	77	32:01.67 WOODY BOWERSOCK	80
7:13.75 LYNN SURLS	76	49.69 FRANK HAVLICEK	75	400 M. I.M. M E N 75-79		32:20.05 DAVID MCAFFEE	83
7:16.29 EDWARD MORAN	75	49.72 JERRY EVERALL	78	7:33.32 ANTON CERER	92	35:57.13 FRED WALBOLT	80
7:16.82 OBEL JAMES	78	49.76 CAL SCHAEFFER	75	7:42.59 ALDO DA ROSA	75	50 M. BACK M E N 80-84	
7:23.68 DICK GUIDO	76	50.56 EDWIN WOLPAW	78	8:13.65 NORRIS FLUKE	76	45.69 ART HARGRAVE	87
7:27.32 JERRY SIEFERT	75	50.69 JOHN LE VETT	76	8:46.30 DON MCCULLOUGH	77	47.19 DAVE MALBROUGH	80
800 M. FREE M E N 75-79		100 M. BRST M E N 75-79		9:24.73 NELSON OTIS	77	47.35 WOODY BOWERSOCK	80
13:35.96 HERBERT HOWE	87	1:39.62 ALDO DA ROSA	93	10:22.21 WILLIAM JOHNSTON	75	52.51 FREDERICK HAUFF	82
13:59.15 ALDO DA ROSA	75	1:39.62 ALDO DA ROSA	75	10:35.19 JOHN JOHNSTON	77	55.40 JACK HOEY	83
14:37.14 NORRIS FLUKE	76	1:43.41 PAUL KRUP	75	10:55.75 N.H. SKJERSAA	77	56.93 JOHN GLENN	82
14:39.89 EDWARD MORAN	75	1:46.44 RUSS WITTE	76	*****		58.63 CHARLES SALIE	80
14:47.19 PETE OKUMOTO	77	1:50.08 BENNETT ALLEN	79	50 M. FREE M E N 80-84		59.46 SYD HENDY	80
14:57.72 FRANK MURPHY	75	1:53.09 DON MCCULLOUGH	77	33.88 WOODROW BOWERSOCK	93	1:01.81 ALLAN SACHS	80
16:08.84 GEORGE RAFTER	76	1:54.90 BRUD CLEVELAND	75	33.88 WOODY BOWERSOCK	80	1:03.33 TEX ROBERTSON	84
16:38.62 HAROLD SEXTON	77	1:55.55 JOHN LE VETT	76	37.21 KELLEY LEMMON	81	1:04.13 ANDREW HAAPANEN	82
16:41.69 NELSON OTIS	77	1:56.28 JERRY EVERALL	78	38.87 GERSON SOBEL	83	100 M. BACK M E N 80-84	
17:20.99 GENE CROSSETT	79	1:56.28 MICHAEL OFFNER	78	40.89 BERT KASSELL	80	1:45.81 DAVE MALBROUGH	93
18:56.80 FRANK TILLOTSON	78	1:58.28 CAL SCHAEFFER	75	42.79 DAN DOTTERWEICH	84	1:45.81 DAVE MALBROUGH	80
1500 M. FREE M E N 75-79		200 M. BRST M E N 75-79		44.15 DAVI MCAFFEE	83	1:54.70 WOODY BOWERSOCK	80
25:41.55 HERBERT HOWE	87	3:43.59 ALDO DA ROSA	93	44.22 WILLIAM KIRAR	81	2:01.41 JACK HOEY	83
26:28.88 ALDO DA ROSA	75	3:43.59 ALDO DA ROSA	75	44.33 ALLAN SACHS	80	2:03.70 CARL THORNBURG	81
27:33.58 NORRIS FLUKE	76	3:55.91 DON MCCULLOUGH	77	44.61 JOHN GLENN	82	2:04.56 CHARLES SALIE	80
28:21.56 FRANK MURPHY	75	3:59.77 PAUL KRUP	75	45.00 FRANK BELLAIRE	83	2:13.97 JOHN GLENN	82
29:51.88 DEXTER WOODFORD	79	4:22.67 BRUD CLEVELAND	75	100 M. FREE M E N 80-84		2:16.41 DAVID MCAFFEE	83
30:36.09 JOHN WOODS	75	4:23.30 MIKE OFFNER	78	1:22.50 WOODROW BOWERSOCK	93	2:17.64 SYD HENDY	80
30:51.06 JOHN MERRILL	76	4:28.00 NELSON OTIS	77	1:22.50 WOODY BOWERSOCK	80	2:24.84 JAMES MITCHELL	81
31:07.41 HAROLD SEXTON	78	4:33.63 JERRY EVERALL	78	1:29.01 KELLEY LEMMON	81	2:31.49 DAN DOTTERWEICH	84
32:02.68 N.H. SKJERSAA	77	4:40.70 ROGER CHAMBERLAIN	76	1:34.01 GERSON SOBEL	83	200 M. BACK M E N 80-84	
34:06.00 JOHN JOHNSTON	77	5:04.75 JOHN JOHNSTON	77	1:40.69 DAVID MCAFFEE	83	3:58.25 CHARLES SALIE	92
34:52.94 HENRY SHOSTCHUK	75	5:21.67 EDWARD SLEZAK	79	1:43.99 BERT KASSELL	80	4:03.32 DAVE MALBROUGH	80
50 M. BACK M E N 75-79		50 M. FLY M E N 75-79		1:45.30 ALLAN SACHS	80	4:16.88 WOODY BOWERSOCK	80
40.47 ARTHUR HARGRAVE	82	41.25 KELLEY LEMMON	87	1:49.86 DAN DOTTERWEICH	84	4:22.55 JACK HOEY	83
43.32 EDWARD SHEA	78	42.16 PAUL KRUP	75	1:52.25 C.B SUNDERLAND	84	4:26.65 CHARLES SALIE	80
43.51 BILL WOOSLEY	75	44.61 ROBERT KNAPP	76	1:52.49 TEX ROBERTSON	84	4:27.30 CARL THORNBURG	81
44.28 ALDO DA ROSA	75	46.37 FRANK HAVLICEK	75	1:52.56 FRANK BELLAIRE	83	4:50.37 SYD HENDY	80
44.38 ROBERT KNAPP	76	46.42 ALDO DA ROSA	75	200 M. FREE M E N 80-84		5:24.82 JAMES MITCHELL	81
44.74 EDWARD JOHNSON	75	48.39 WILLIAM JOHNSTON	75	3:31.79 GUS LANGNER	83	5:25.37 JOHN GLENN	82
45.50 ALBERT VANDEWEGHE	76	48.42 EDWIN WOLPAW	78	3:33.38 GERSON SOBEL	83	5:56.83 ALLAN SACHS	80
45.88 BRION WINSHIP	75	48.62 GEORGE RAFTER	76	3:35.83 WOODY BOWERSOCK	80	6:04.17 FRED WALBOLT	80
47.20 JERRY SIEFERT	75	49.40 WILLIAM GRANT	79	3:53.66 DAVID MCAFFEE	83	50 M. BRST M E N 80-84	
48.44 OBEL JAMES	78	50.93 CAL SCHAEFFER	75	4:07.15 C.B SUNDERLAND	84	49.49 BILL SHOTT	90
50.79 WILLIAM GRANT	79	52.75 JACK MATTINGLY	79	4:10.95 TEX ROBERTSON	84	50.26 KELLEY LEMMON	81
100 M. BACK M E N 75-79		100 M. FLY M E N 75-79		4:12.93 FRED WALBOLT	80	57.45 DAN DOTTERWEICH	84
1:32.92 ARTHUR HARGRAVE	82	1:39.80 ANTON CERER	92	4:13.65 LLOYD OSBORNE	83	1:01.09 FREDERICK HAUFF	82

TOP TEN

Long Course Meters

1:01.54	WOODY BOWERSOCK	80	9:52.69	GUS LANGNER	89	200 M. FREE M E N 90-94	
1:03.48	JOHN GLENN	82	12:14.33	DON NEEFE	85	4:28.34	GUS LANGNER 93
1:07.46	OTTO HAHN	80	800 M. FREE M E N 85-89			4:28.34	GUS LANGNER 90
1:11.37	ANDREW HAAPANEN	82	17:11.21	GUS LANGNER	88	400 M. FREE M E N 90-94	
1:11.81	LARRY HART	81	NO SWIMMERS			9:44.11	GUS LANGNER 93
1:12.39	RUFUS CLARK	82	1500 M. FREE M E N 85-89			9:44.11	GUS LANGNER 90
1:13.99	CARL THORNBURG	80	33:08.42	GUS LANGNER	89	800 M. FREE M E N 90-94	
100 M. BRST M E N 80-84			NO SWIMMERS			20:13.74	GUS LANGNER 93
1:56.31	KELLEY LEMMON	93	50 M. BACK M E N 85-89			20:13.74	GUS LANGNER 90
1:56.31	KELLEY LEMMON	81	58.07	JIM PENFIELD	93	1500 M. FREE M E N 90-94	
2:18.39	FREDERICK HAUFF	82	58.07	JIM PENFIELD	85	36:47.02	GUS LANGNER 93
2:24.48	DAN DOTTERWEICH	84	1:05.42	PETER JURCZYK	87	36:47.02	GUS LANGNER 90
2:41.47	LARRY HART	81	1:10.46	AL KALLUNKI	88	50 M. BACK M E N 90-94	
2:44.76	JOHN GLENN	82	1:11.65	GUS LANGNER	89	1:10.74	GUS LANGNER 93
2:59.08	OTTO HAHN	80	1:13.27	JOE KAUFMAN	88	1:10.74	GUS LANGNER 90
3:55.40	J RAY O'CONNELL	81	1:14.68	HARRY JAGGERS	86	100 M. BACK M E N 90-94	
200 M. BRST M E N 80-84			1:19.28	DON NEEFE	85	3:02.03	GUS LANGNER 93
4:25.69	HAROLD PERRY	92	1:25.48	ABE OLANOFF	87	3:02.03	GUS LANGNER 90
5:28.91	CARL THORNBURG	81	100 M. BACK M E N 85-89			200 M. BACK M E N 90-94	
5:30.44	RUFUS CLARK	82	2:07.06	JIM PENFIELD	93	7:18.52	GUS LANGNER 93
5:57.03	LARRY HART	81	2:07.06	JIM PENFIELD	85	7:18.52	GUS LANGNER 90
6:36.67	JOHN GLENN	82	2:33.85	PETER JURCZYK	87	50 M. BRST M E N 90-94	
50 M. FLY M E N 80-84			2:37.88	JOE KAUFMAN	88	1:18.31	GUS LANGNER 93
52.05	JESSE COON	91	2:49.65	DON NEEFE	85	1:18.31	GUS LANGNER 90
56.31	JESSE COON	82	2:54.15	HARRY JAGGERS	86	100 M. BRST M E N 90-94	
57.77	WOODROW BOWERSOCK	80	2:56.50	GUS LANGNER	89	3:09.64	GUS LANGNER 93
1:34.94	LEE 'KIP' KING	80	2:57.05	AL KALLUNKI	88	3:09.64	GUS LANGNER 90
100 M. FLY M E N 80-84			200 M. BACK M E N 85-89			200 M. BRST M E N 90-94	
2:21.06	JESSE COON	91	4:43.49	JIM PENFIELD	92	6:24.54	GUS LANGNER 93
2:27.12	JESSIE COON	82	4:43.49	JIM PENFIELD	85	6:24.54	GUS LANGNER 90
2:46.15	CARL THORNBURG	81	5:19.44	PETER JURCZYK	87	*****	
200 M. FLY M E N 80-84			5:34.90	JOE KAUFMAN	88	50 M. FREE M E N 95-99	
5:36.65	JESSE COON	92	6:16.64	DON NEEFE	85	1:20.52	TOM LANE 89
5:42.03	JESSE COON	82	6:20.75	HARRY JAGGERS	86	1:35.45	TOM LANE 99
200 M. I.M. M E N 80-84			6:31.88	GUS LANGNER	89	100 M. FREE M E N 95-99	
4:22.70	HERB EISENSCHMIDT	87	50 M. BRST M E N 85-89			3:30.59	TOM LANE 92
4:27.37	WOODY BOWERSOCK	80	1:01.47	AL KALLUNKI	89	4:08.40	TOM LANE 99
5:26.63	JESSIE COON	82	1:09.67	AL KALLUNKI	88	50 M. BACK M E N 95-99	
400 M. I.M. M E N 80-84			1:21.46	GUS LANGNER	89	1:18.91	TOM LANE 89
10:29.63	JESSE COON	91	1:25.95	ABE OLANOFF	87	1:32.81	TOM LANE 98
10:54.14	JESSE COON	82	1:55.80	HAROLD HOFFMANN	85	100 M. BACK M E N 95-99	
11:01.55	CARL THORNBURG	81	100 M. BRST M E N 85-89			3:19.14	TOM LANE 92
*****			2:23.06	JIM PENFIELD	93	4:13.21	TOM LANE 99
50 M. FREE M E N 85-89			2:23.06	JIM PENFIELD	85	50 M. BRST M E N 95-99	
42.09	FRANK BRASINGTON	93	3:02.36	GUS LANGNER	89	2:03.52	TOM LANE 89
42.09	FRANK BRASINGTON	85	3:04.54	ABE OLANOFF	87	NO SWIMMERS	
46.70	JIM PENFIELD	85	200 M. BRST M E N 85-89			*****	
51.29	GUS LANGNER	89	5:35.03	AL KALLUNKI	89	50 M. FREE M E N 100 +	
54.50	PETER JURCZYK	87	5:37.67	JIM PENFIELD	85	2:22.05	EDWIN THOMAS 93
55.87	JOHN MAXWELL	85	6:11.19	AL KALLUNKI	88	2:22.05	EDWIN THOMAS 100
59.68	DON NEEFE	85	6:42.85	ABE OLANOFF	87	*****	
1:02.40	JOE KAUFMAN	88	50 M. FLY M E N 85-89				
1:06.48	HARRY JAGGERS	86	1:04.95	JIM PENFIELD	93		
1:11.01	HAROLD HOFFMANN	85	1:04.95	JIM PENFIELD	85		
100 M. FREE M E N 85-89			1:33.98	ABE OLANOFF	87		
1:43.03	GUS LANGNER	88	100 M. FLY M E N 85-89				
1:52.60	FRANK BRASINGTON	85	3:23.06	ABE OLANOFF	91		
1:57.56	JIM PENFIELD	85	NO SWIMMERS				
2:04.78	GUS LANGNER	89	200 M. I.M. M E N 85-89				
2:13.17	PETER JURCZYK	87	5:32.99	JIM PENFIELD	93		
2:21.61	JOE KAUFMAN	88	5:32.99	JIM PENFIELD	85		
2:24.48	JOHN MAXWELL	85	6:30.47	ABE OLANOFF	87		
2:39.93	HARRY JAGGERS	86	400 M. I.M. M E N 85-89				
2:52.93	HAROLD HOFFMANN	85	12:27.27	ABE OLANOFF	91		
200 M. FREE M E N 85-89			NO SWIMMERS				
3:48.91	GUS LANGNER	88	*****				
4:32.52	GUS LANGNER	89	50 M. FREE M E N 90-94				
4:45.76	JIM PENFIELD	85	48.70	GUS LANGNER	93		
5:15.92	JOE KAUFMAN	88	48.70	GUS LANGNER	90		
5:29.35	DON NEEFE	85	100 M. FREE M E N 90-94				
400 M. FREE M E N 85-89			1:57.91	GUS LANGNER	93		
8:14.50	GUS LANGNER	88	1:57.91	GUS LANGNER	90		

TOP TEN

Long Course Meters

***** RELAYS: WOMEN 200 M. FREE ***** 76 - 99	AMY CHRISTENSON 24 JESSICA ZUFOLO 25 DEBRA PITTS 30 HEIDI EBEL 32 WAC 2:44.44 KATHY YOUNG 28 ELIZABETH SWID 29 TOBI BOSSIE 34 MAILE KALINOWSKI 27	SUE HARRINGTON LOS ALTOS 2:05.09 AIMEE LEHR 26 CAROLYN BOAK 48 KRISTINA KING 45 ARLENE PROEBSTING 50 MINNESOTA 2:11.59 PUJALET DEVITT 36 MARY WINDRATH 40 PAMELA OGDEN 36 MARSH SOUCHERAY 52 MISSOURI VALLEY 2:11.79 LAURA CALWELL 43 SHARON MAYO 36 LINDA MCHENRY 46 TERES MCGIVERIN 36 LAKESIDE 2:16.48 JEAN RUEFF 35 WENDY MEDLEY 39 A.WRIGHT BELKNAP 42 JEAN HENDERSON 46 SOUTH TEXAS 2:20.38 CATHERINE DANIEL 43 JAMIE STEWART 44 M.MARCANTONIO 43 CAROL FITZSIMMONS 39 ST. PETE 2:23.57 MARY CONWAY 42 ELAINE BROMWICH 50 M VAN EVERY 52 TERRI HOPPENRATH 36 SAN MATEO 2:25.98 VAL DUNN 48 DONNA DUNN 45 ROSE MCNALLY 45 PAM CATLING 35 SAN DIEGO 2:31.70 VIRGINIA BURNS 42 LENORE CEITHAML 44 LAURA MELDRUM 40 DIANA DOLAN-EVANS 35 ST. PETE 2:36.02 COLLEEN EGAN 40 C.T. SWANSON 31 PAM GEIGER 40 JAYNE LAMBKE 54 WALNUT CREEK 2:37.39 CAROL LAIRD 51 JANET KINNEY 52 SUZANNE ANGIOLI 45 KARNE ROSENKILDE 27	KARLYN PIPES 31 O*H*I*O MASTERS 2:53.01 PAM BECK 36 DORIS LOCKER 49 LUISE EASTON 54 LILLY KRON 61 ST. PETE 2:53.82 K.A. BEARULIEU 38 MARGIE HUTINGER 53 KATE KNIGHT-PERRY 58 J.G. PIPER 56 HEARTLAND 2:59.28 JUDY TILARO 58 NANCY REED 66 M.VANDERHAUG 51 CAROL SING 51 MINNESOTA 3:02.52 BARB NELSON 60 MARIANN SCHULZE 56 MARILYN LENTZ 60 KATHIE THEIS 61 OMAHA 3:03.56 MARGRETTA DWYER 58 PATT HARKREADER 57 JUDY KENNEDY 55 JANE OBERG 55 BOLT 3:10.83 BARBARA BOWER 55 MARGARET BROU 70 ELLEN HALL 42 VICKI BUCCINO 47 CATM 3:26.98 NANCY DURSTEIN 63 LISA EVANS 37 WINNIE WALTER 72 ALICE YUNGERT 66 240-279 R:NEW ENGLAND 88 2:35.32 DOROTHY CARR CLARA WALKER BILLIE BURRILL DIANNE REED O*H*I*O 2:42.35 BETTY RUSS 66 LILLY KRON 61 NANCY WAITE 59 PRUDENCE HALL 55 ST. LOUIS 2:46.27 CHERYL CORBETT 61 REGAN KENNER 69 CAROL TAYLOR 64 ARDETH MUELLER 52 WALNUT CREEK 2:59.08 BARBARA JORDAN 56 DONNA MONROE 59 ELFRIEDE ROGERS 65 JEAN DUNCAN 60 LINCOLN 3:04.32 HANNELORE SNYDER 63 CLARICE ROSSI 55 LYNNETTE GAZA 49 LOUISE DONOVAN 75 HOLMES LUMBER 3:06.51 MARJORIE NEWMAN 69 JOAN GLARATON 66 GERTRUD ZINT 75 FLORENCE CARR 67 ROCKY MOUNTAIN 3:58.48 SALLY RYCKMAN 81 FRANCES HOLMES 66 LOIS ELLERT 78
R:UNIV SAN FRAN 92 1:59.29 CYNTHIA HINSHAW JANET HAUER NATALIE EFFA BRENDA WICKLUND WALNUT CREEK 2:03.81 YASUKO KARSTENS 22 MICHELLE GHEGERRI 24 WENDY INGRAHAM 29 KAREN HEARD 23 OREGON 2:20.71 JENNIFER DEWALD 99 DANA WALLING 26 KATHERINE MCCALL 23 DEBORAH HEIM 24 VENICE 2:33.51 NELL REGAN 23 MEREDITH TAKARA 23 MELISA WEISS 28 LARA FOREMAN 24	120-159 R:LONE STAR 87 1:53.05 MONICA BURK BRIGITTE HEUER L. MORRISON-CASEY JACKI HIRSTY ST. LOUIS 1:59.58 LESLIE COOPER 33 CINDY LYNCH 25 CINDY ECKENRODE 31 LORI PAYNE 34 MINNESOTA 1:59.77 AMY ROE 26 ANNETTE JAGGER 32 SARAH EICHER 37 MARY DUNLEVY 30 WALNUT CREEK 1:59.90 SUZANNE HEIM 35 DEBBI FLANSBURG 37 PATTY LANDERS 36 MICHELLE GHIGGERI 24 S.E.METRO 2:00.91 TAMARA GREWENOW 25 JUDITH LALLIER 34 LISA TINUCCI 28 RANDI NEHRING 33 LINCOLN 2:01.41 CYNTHIA JONES 43 MARY JO FERRIS 32 JULIE BAUBLIS 25 SUSAN STANLEY 26 LAKESIDE 2:04.39 SUSAN AUGUSTUS 26 AMY POPE 32 MARY CHRIS CURL 36 MELINDA SCHMITT 34 ST. PETE 2:05.38 LORI STAUCH 28 TISH OLEKSY 31 ANNE PAGE 45 LISA FLANAGAN 30 OMAHA 2:08.63 SUSAN NEEDHAM 32 BARBARA KRAUSE 34 TRISH HARTIGAN 38 JEAN APKER 33 HOLMES LUMBER 2:10.00 MARY HOLDERMAN 26 KATHY STEELE 29 GINA AGUILAR 34 E.J. BEATTIE 56 MINNESOTA 2:12.06 LINNEA ASP 34 KATHRINE ERICKSON 36 KIRSTEN LEAF 32 SARAH HROMADA 32	100-119 R:OREGON 92 1:52.47 SHANNON HERINGER GRACIE GODDARD LEISSA MILLS LINDA FINLEY ORLM 2:03.71 DANIELLE SIRBU 19 DEBRA HANSON 29 HEATHER O'BRIEN 30 EILEEN HARTLE 32 DAVIS AQUATIC 2:04.74 CHRIS CHICHESTER 30 CHRIS SCHULTZ 22 CHRIS WINN 27 JENNIFER NORRIS 26 BAYLOR/L STAR 2:05.56 LISA PALMISANO 26 VAL HAGUE 32 SHARON PHILLIPS 26 MICHELLE CHOW 25 HEARTLAND 2:06.37 VICKY DAVIDSON 28 DIANE MENDOZA 32 REBECCA JACKMAN 30 JONI SAITO 29 LAKESIDE 2:10.85 SUZANNE HAWKINS 26 PAMELA HAEBERLIN 29 CAROLINE DONNELLY 31 LESLIE ENANDER 32 CRAW 2:13.85 PAIGE HARPER 27 KAREN ROGERS 26 GINA LEGGIO 20 SANDY COLBY 30 OREGON 2:18.97 KATHY ISAACS 25 KATHERINE MCCALL 24 KATHI BULLOCK 39 DEBORAH HEIM 24 S.E.METRO 2:21.47 LEIGH BENSON 22 KATHLEE PEARSON 35 ANNE TRAULEY 39 MICHELLE WHALE 23 NCYM 2:29.24	200-239 R:LOS ALTOS 92 2:09.35 CAROLYN BOAK ARLENE PROEBSTING DELLA SEHORN LAURA VAL DC MASTERS 2:21.55 JOANN LEILICH 54 BARBAR ZAREMSKI 56 BARBARA FRID 51 NANCY KIRKENDALL 50 VIRGINIA 2:24.84 JUDY DECKER 51 BETSY DURRANT 51 LUCILLE GRIFFIN 55 NANCY MILLER 43 SAN DIEGO 2:37.99 BETSY JORDAN 56 SUSAN RITTENHOUSE 55 BOBBI TURCOTTE 66

TOP TEN

Long Course Meters

AMY KNOTT	26	LINDA TANKERSLEY	30	PATTY STARKS	33	ELAINE BROMWICH	50
280-319		KATIE BURNS	27	KELLI DOLE	35	MARY CONWAY	42
R:WALNUT CREEK	93 3:15.26	GMKW	2:19.52	BAYLOR/L STAR	2:21.46	WISCONSIN	2:58.50
JEAN DURSTON		ROBIN BELCHER	31	ROXANNE ANDERES	37	DORIS KLITZKE	58
SALLY JOY		LIESA BENN	28	VAL HAGUE	32	CANDY CHRISTENSON	46
JOAN ALEXANDER		KIM WILKINSON	29	MICHELLE CHOW	25	EDITH JACOBSEN	45
BETTY MCMILLAN		SUZANNE WILKINSON	25	LISA PALMISANO	26	NANCY KRANPITZ	48
WALNUT CREEK	3:15.26	ORLM	2:23.39	MINNESOTA	2:23.46	HOT	3:01.20
JEAN DURSTON	79	AMANDA HALL	24	ANNETTE JAGGER	32	M.SCHAEFER	38
SALLY JOY	76	CAROLINE GATTO	32	KATHRINE ERICKSON	36	S.KNIEST	38
JOAN ALEXANDER	61	HEATHER O'BRIEN	30	MARY DUNLEVY	30	JUDY GILLIES	45
BETTY MCMILLAN	64	EILEEN HARTLE	32	SARAH HROMADA	32	K.HUHLAND	39
WALNUT CREEK	3:19.56	GREENVILLE	2:26.27	ST. PETE	2:24.34		
MARY JANE REEVES	76	BETH SCHEIMANN	31	JUDY STEFANICK	42	200-239	
PAT PREVETZ	72	CHRISTINA DEKRAY	26	LISA FLANAGAN	30	R:LOS ALTOS	92 2:28.26
JAE HOWELL	70	LELIA REYNOLDS	26	TISH OLEKSY	31	DELLA SEHORN	
ANN PISCIOTTA	62	CLAIRE VOLMAN	30	ANNE PAGE	45	CAROLYN BOAK	
HOLMES LUMBER	3:23.41	HOT	2:26.45	SOUTH TEXAS	2:25.55	LAURA VAL	
FLORENCE CARR	68	CAROLE FUNK	33	JAN GIRARD	33	ARLENE PROEBSTING	
M.R. NEWMAN	69	PAMELA KING	19	HUDDIE MURRAY	36	DC MASTERS	2:37.37
JUNE REYNOLDS	71	RANE SMITH	29	REBECCA PYLE	37	NANCY KIRKENDALL	50
RACHEL ERWIN	73	BECKI MAJOR	29	JAN SCHWAPPE	30	JOANN LEILICH	54
LAKESIDE	3:38.11	ALHAMBRA	2:29.57	OMAHA	2:30.33	BARBARA FRID	51
CAROL FERGUSON	61	TINA ESSEX	22	JEAN APKER	33	BARBARA ZAREMSKI	56
MARY JANE MULLINS	62	ELAINE FONG	35	TRISH HARTIGAN	38	VIRGINIA	2:41.33
DOROTHY RIORDAN	81	JOAN VER HALEN	24	BARBARA KRAUSE	34	JUDY DECKER	51
MEME HABICH	78	KERRI NAUFUL	36	SUSAN NEEDHAM	32	BETSY DURRANT	51
DC MASTERS	3:42.51	LAKESIDE	2:29.95			NANCY MILLER	43
LORRAINE MURPHY	75	JEAN RUEFF	35	160-199		LUCILLE GRIFFIN	55
RUTH THORSEN	73	SUZANNE HAWKINS	26	R:RMM	92 2:15.86	SMS	2:51.64
MARY LATHRAM	78	PAMELA HAEBERLIN	29	SHARON LAHEY		SCOTTIE HOLLIDAY	59
ANNE WALKER	77	SUSAN AUGUSTUS	26	CATHY DROZDA		DEBORAH WALKER	42
ROCKY MOUNTAIN	3:50.01	PLANO WETCATS	2:36.46	JUDY REED		SUZY CARLSON	51
AGOTA FROHS	73	S STEINHILBER	23	MARCY BULLOCK		B.CULBERTSON	56
CATHY WRENN	66	MICHELLE CLARK	31	LOS ALTOS	2:21.27	O*H*I*O	2:53.67
A HOTTINGER	71	SUNNY SMILEY	23	AIMEE LEHR	26	JOANNE BOWSER	39
LUELLA HEATH	73	MELISSA HEWSON	30	CAROLYN BOAK	48	LILLY KRON	61
ST. PETE	3:53.14	CRAW	2:39.36	KRISTINA KING	45	PRUDENCE HALL	55
MARIA MCKECHNIE	88	CYNTHIA ROBIDOUX	31	ARLENE PROEBSTING	50	NANCY WAITE	59
WIN KENNEDY	80	PAIGE HARPER	27	LINCOLN	2:23.75	OMAHA	2:58.07
KAY SCHIMPF	76	SANDY COLBY	30	MARY POHLMANN	48	MARIANA PHIPPS	49
SANDY STEER	54	GINA LEGGIO	20	C STONESIFER	40	MARY MOELLER	43
*****				IRENE DAVID	49	JANE OBERG	55
RELAYS: WOMEN 200 M. MEDLEY		120-159		MICHELLE DAVID	23	JUDY KENNEDY	55
*****		R:D C MASTERS	87 2:11.61	SAN DIEGO	2:25.48	ST. PETE	2:58.78
76 - 99		SUE SKIFF		BETSY JORDAN	56	MARGARET VANEVERY	52
R:UNIV SAN FRAN	92 2:12.59	SUZANNE O'HARA		DIANA DOLAN-EVANS	35	J.G. PIPER	56
CYNTHIA HINSHAW		C. R.-PROSCHE		BARBARA DUNBAR	44	JAYNE LAMBE	53
JANET HAUER		BETH O'CONNOR		KARLYN PIPES	31	KATE KNIGHT-PERRY	58
NATALIE EFFA		ST. LOUIS	2:15.44	MINNESOTA	2:29.27	ST. LOUIS	3:01.01
BRENDA WICKLUND		CATHERINE KOHN	40	PUJALET DEVITT	36	ANNALOU CARRIER	72
VENICE	2:50.91	SUSAN RICHMOND	32	JAN TRUCHAN	40	DORIS PETERS	70
NELL REGAN	23	CINDY ECKENRODE	31	MARSHA SOUCHERAY	52	LESLIE COOPER	33
LARA FOREMAN	24	MARY GRACE HUBER	31	MARY WINDRATH	40	LORI PAYNE	34
MEREDITH TAKARA	23	LINCOLN	2:16.88	LAKESIDE	2:35.59	SAN DIEGO	3:18.37
MELISA WEISS	28	MARY JO FERRIS	32	MARY GRAVES	36	BOBBI TURCOTTE	66
100-119		JANE ROBIE	35	A.WRIGHT BELKNAP	42	ALICIA COLEMAN	68
R:HOLMES	88 2:06.67	PATTY REDIG	33	WENDY MEDLEY	39	LAURA MELDRUM	40
BETH MAUER		JULIE BAUBLIS	25	JEAN HENDERSON	46	VIRGINIA BURNS	42
DEB WALKER		WALNUT CREEK	2:19.46	MISSOURI VALLEY	2:39.25	CATM	3:53.90
TISH BUCHER		PATTY LANDERS	36	LAURA CALWELL	43	NANCY DURSTEIN	63
MARY HOLMES		SUZANNE HEIM	35	TERESA MCGIVERIN	36	LISA EVANS	37
S.E.METRO	2:16.05	DEBBI FLANSBURG	37	LINDA MCHENRY	46	WINNIE WALTER	72
RANDI NEHRING	33	MICHELLE GHIGGERI	24	SHARON MAYO	36	ALICE YUNGERT	66
TAMARA GREWENOW	25	LAKESIDE	2:20.75	SOUTH TEXAS	2:41.01	HEARTLAND	4:13.37
JUDITH LALLIER	34	MARY CHRIS CURL	36	CAROL FITZSIMMONS	39	M.VANDERHAUG	51
LEIGH BENSON	22	CAROLINE DONNELLY	31	M.MARCANTONIO	43	ELFRIEDE LEHTO	60
XTC	2:18.64	AMY POPE	32	KARLENE WISE	39	NANCY REED	66
CY ZACK	27	MELINDA SCHMITT	34	KATHERINE DANIEL	43	TRISHA HUNTER	59
KRISTEN DOMIS	26	HEARTLAND	2:21.17	ST. PETE	2:49.14		
		VICKY DAVIDSON	28	TERRI HOPPENRATH	36	240-279	
		DIANE MENDOZA	32	M-VAN EVERY	52	R:ST. LOUIS	93 2:51.91

TOP TEN

Long Course Meters

REGAN KENNER		RELAYS: WOMEN 400 M. FREE		JEANNE CHO	43	LISA TALLMAN	
CAROL TAYLOR		*****		MALCHIA OLSHAN	62	DEBBIE FLANSBURG	
ARDETH MUELLER		76 - 99		CAROLE BORLAND	50	WENDY INGRAHAM	
CHERYL CORBETT		R:SACRAMENTO	92 4:32.12			WALNUT CREEK	5:17.90
ST. LOUIS	2:51.91	DONNA NICHOLAS		200-239		PAM BOSCOVICH	30
REGAN KENNER	69	SUE LOWRIE		R:SAN DIEGO	90 5:27.04	KIM COLLENTINE	27
CAROL TAYLOR	64	LISA CHRISTO		ADRIENNE PIPES		YASUKO KARSTENS	22
ARDETH MUELLER	52	MINDY WRIGHT		BETSY JORDAN		M.GHIGGERRI	24
CHERYL CORBETT	61	VENICE	6:06.12	BARBARA DUNBAR		DAVIS AQUATIC	5:30.23
NEW ENGLAND	3:00.93	NELL REGAN	23	JEANNE LITTLE		LISA STRAMPACH	34
MARIAN COAKLEY	55	MEREDITH TAKARA	23	LAKESIDE	5:48.85	CHRIS SCHULTZ	22
CLARA WALKER	67	MELISA WEISS	28	JEAN HENDERSON	46	CHRIS CHICHESTER	30
SUSAN LIVINGSTON	55	LARA FOREMAN	24	CAROL FERGUSON	61	JENNIFER BLAKE	24
JOAN MCINTYRE	64			WENDY MEDLEY	39	RINCONADA	5:45.75
COLONIALS 1776	3:13.78	100-119		MARY ANN STONE	59	CHRIS KANAZAWA	26
JEANNE MERRYMAN	70	R:DAVIS AQUATIC	92 4:27.84	ST. PETE	6:40.34	RACHEL GOLDEN	26
PATRICIA TULLMAN	56	C.CHICHESTER		BARBARA ALLEN	59	ONDINE PARKER	26
JEAN TROY	66	MELISSA BEATY		B.J. TUCKER	58	JUDITH SCHWARTZ	38
MARY ANN MCCLAIN	52	KIM MCCORD		MARY KNIGHT-PERRY	56		
LINCOLN	3:15.66	JENNIFER NORRIS		J.G. PIPER	56	120-159	
CLARICE ROSSI	55	NO RELAY TEAMS		O*H*I*O MASTERS	6:49.45	R:WALNUT CREEK	91 5:00.94
HANNELOR SNYDER	63			LUISE EASTON	54	PAM BOSCOVICH	
BETTY BENNETT	50	120-159		DORIS LOCKER	49	WENDY INGRAHAM	
LOUISE DONOVAN	75	R:SAN DIEGO	89 4:26.76	MARIANNE BROGAN	58	DEBBIE FLANSBURG	
HOLMES LUMBER	3:17.52	CATHY NEVILLE		GLORIA BRITTON	40	CATHY COOLEY	
FLORENCE CARR	67	MARILYN FINK				GOLD COAST	5:54.06
GERTRUD ZINT	75	BARBARA DUNBAR		240-279		ROSA MEYER	31
MAG BOWEN	34	BETH KNIGHT		R:WALNUT CREEK	92 6:15.17	DEB LAKE	29
JOAN GLARATON	66	HEARTLAND	4:38.72	BETTY BARABASH		LIL HANEMAN	38
O*H*I*O MASTERS	3:31.56	VICKY DAVIDSON	28	JOAN ALEXANDER		B.EDELMAIER	46
LUISE EASTON	54	KELLI DOLE	35	ANN PISCIOTTA		HEARTLAND	6:12.96
M.J. AMSBARY	68	PATTY STARKS	33	BARBARA JORDAN		KELLI DOLE	35
LILLY KROM	61	REBECCA JACKMAN	30	SAN DIEGO	6:22.20	JONI SAITO	29
BETTY KAKOS	62	ALHAMBRA	5:13.27	DIANA SILVA	71	REBECCA JACKMAN	30
SANTA BARBARA	3:44.14	JAIMI LUMBERT	34	BOBBI TURCOTTE	65	DIANA STOCKDALE	35
PEGGY SANBORN	66	ELINOR CHARLTON	34	JANET LAMOTT	57	WILDCAT	6:31.52
SHIRLEY ERICKSON	69	KERRI NAUFUL	36	BETSY JORDAN	56	BECKY WECHSLER	31
GRACE ALTUS	69	ELAINE FONG	35	HEARTLAND	8:09.46	MEG SMATH	36
RUTH BAAR	70	GOLD COAST	5:14.88	ANN MARTIN	63	GAIL O'MALLEY	38
ATOM	4:20.02	ROSA MEYER	31	NANCY REED	66	KERRY WALLACE	22
VIRGINIA WILLIAMS	72	DEB LAKE	29	TRISH HUNTER	59	GOLD COAST	7:28.62
PENNY WEAVER	58	LIL HANEMAN	38	JUDY TILARO	58	RORIE ANDERSON	42
ANITA MCINTOSH	56	B.EDELMAIER	46			KAY JONES	27
JEAN COOK	74	WILDCAT	6:03.31	280-319		LISA SHOPE	34
		BECKY WECHSLER	31	R:WALNUT CREEK	89 8:01.05	MAUREEN PERRY	34
280-319		KAREN MARSHALL	42	JAE HOWELL			
R:WALNUT CREEK	93 3:38.67	CAROL MOLINARI	40	JEAN DURSTON		160-199	
BARBARA JORDAN		KERRY WALLACE	22	SALLY JOY		R:SAN DIEGO	89 5:24.49
SALLY JOY		GOLD COAST	6:16.46	MARY JANE REEVES		BETSY JORDAN	
JAE HOWELL		RORIE ANDERSON	42	ST. PETE	9:58.90	SUSIE LEIPER	
JEAN DURSTON		KAY JONES	27	M.B. MCKECHNIE	88	BARBARA DUNBAR	
WALNUT CREEK	3:38.67	LISA SHOPE	34	MARY BOAZ	64	MARILYN FINK	
BARBARA JORDAN	56	MAUREEN PERRY	34	WIN KENNEDY	79	SANTA CRUZ	6:30.42
SALLY JOY	76			SANDY STEER	53	MARGERY MEYER	70
JAE HOWELL	70	160-199		*****		AMY DEARMOND	24
JEAN DURSTON	79	R:SAN DIEGO	93 4:37.01	RELAYS: WOMEN 400 M. MEDLEY		MARGUERITE MEYER	34
HOLMES LUMBER	4:08.39	BETSY JORDAN		*****		LISA SMITH	35
M.R. NEWMAN	69	BARBARA DUNBAR		76 - 99		RINCONADA	7:11.70
FLORENCE CARR	68	KARLY PIPES		R:SACRAMENTO	92 5:07.42	CAROL REMEN	54
JUNE REYNOLDS	71	BETH KNIGHT		MINDY WRIGHT		NANCY BROOKS	50
RACHEL ERWIN	73	SAN DIEGO	4:37.01	LISA CHRISTO		SUSAN SPRINGER	54
LAKESIDE	4:22.80	BETSY JORDAN	56	SUE LOWREI		KATHY CARL	40
DOROTHY RIORDAN	81	BARBARA DUNBAR	44	DONNA NICHOLAS			
CAROL FERGUSON	61	KARLYN PIPES	31	VENICE	6:26.50	200-239	
MARY JANE MULLINS	62	BETH KNIGHT	33	NELL REGAN	23	R:D C MASTERS	91 5:48.73
MEME HABICH	78	GOLD COAST	6:27.51	LARA FOREMAN	24	BARBARA FRID	
DC MASTERS	4:32.43	SUSAN JACKSON	42	MEREDITH TAKARA	23	JOANN LEILICH	
MARY LATHRAM	78	RORIE ANDERSON	42	MELISA WEISS	28	ANN SVANSON	
RUTH THORSEN	73	M.SANFORD-CHRLTN	50			JAYNE BRUNNER	
LORRAINE MURPHY	75	SUSAN LUDWIG	35	100-119		LAKESIDE	6:55.22
ANNE WALKER	77	OJAI	7:22.03	R:WALNUT CREEK	92 4:55.59	JEAN HENDERSON	46
*****		DONNA LECHMAN	35	PAM BOSCOVICH		CAROL FERGUSON	61

TOP TEN

Long Course Meters

WENDY MEDLEY	39	CHRIS SCHULTZ	22	PAT PREVETZ	72	LINCOLN	1:39.63
MARY ANN STONE	59			JEAN DURSTON	79	ROBERT YOUNG	28
ST. PETE	7:52.79	120-159		JAE HOWELL	70	TED SOLTYS	33
BARBARA ALLEN	59	R:SAN DIEGO	90 9:48.97	ELFRIEDE ROGERS	65	TOM REDIG	32
J.G. PIPER	56	RHONDA HRONESH		*****		THOMAS SMITH	28
B.J. TUCKER	58	CATHY NEVILLE		RELAYS: M E N 200 M. FREE		HOUSTONIAN	1:42.69
KATE KNIGHT-PERRY	56	BETH KNIGHT		*****		JEFF HOLBROOK	34
HEARTLAND	8:48.88	BARBARA DUNBAR		76 - 99		ALAIN SAURY	26
JUDY TILARO	58	WALNUT CREEK	10:40.60	R:OLYMPIC CLUB	93 1:41.14	DAVID GUTHRIE	33
VIRGINIA BENDIK	40	PAM BOSCOVICH	30	GARY ANTONICK		ROBERT KILLEEN	31
CAROL SING	51	ANN BERBERI	37	ERIC TARBELL		ST. PETE	1:42.83
NANCY REED	66	LAURIE MCKINNEY	28	STEPHEN GOTH		TIM MCGINNIS	35
		SUZANNE HEIM	34	JIM MURRAY		CHRIS OLDEN	31
240-279		GOLD COAST	11:15.35	THE OLYMPIC CLB	1:41.14	JOHN EDWARDS	44
R:WALNUT CREEK	92 6:50.38	ROSA MEYER	31	GARY ANTONICK	30	BRIAN VAILE	31
BARBARA JORDAN		DEB LAKE	29	ERIC TARBELL	21	MINNESOTA	1:43.02
ANN PISCIOTTA		LIL HANEMAN	38	STEPHEN GOTH	24	SCOTT MALM	34
JOAN ALEXANDER		B.EDELMAIER	46	JIM MURRAY	24	MIKE HALPENNY	29
BETTY BARABASH		HEARTLAND	11:32.25	TEAM	1:42.54	TIM DALY	35
WALNUT CREEK	7:42.24	ELFRIEDE LEHTO	60	GREG BURNS	19	DENNIS MATTAI	35
BARBARA JORDAN	56	KELLI DOLE	35	MICKEY MITALY	22	ORLM	1:43.23
JOAN ALEXANDER	61	REBECCA JACKMAN	30	JOHN CARR	23	PAUL ROBINSON	25
DONNA MONROE	59	STACY JOHNSON	30	ANTHONY ZARKA	23	DANIEL HAYES	29
JEAN DURSTON	79			NCAM	1:50.35	C.D. MILTENBERGER	41
O*H*I*O MASTERS	7:44.92	160-199		JOHNNY LAVENDER	24	L.J. MEISENHEIMER	35
M.J. AMSBARY	68	R:SAN DIEGO	91 10:33.64	JON HOWELL	25	HOUSTONIAN	1:45.12
LILLY KRON	61	BETASY JORDAN		ANYD JACKSON	26	JOHN SMITH	31
MARIANNE BROGAN	58	BARBARA DUNBAR		JEFF BEEMER	23	MIKE GIROD	30
LUISE EASTON	54	MARILYN FINK				JEFF FREY	31
SAN MATEO	8:03.93	BETH KNIGHT		100-119		LANCE GORDON	36
DONNA DUNN	45	SAN MATEO	12:29.41	R:HOUSTONIAN CLUB90	1:36.15	WALNUT CREEK	1:45.50
HILDA BUEL	79	NITSA SWAIN	35	JAMES PRUNGLE		STEVEN BREITER	37
VAL DUNN	43	DONNA DUNN	45	STUART KNOWLES		THOMAS FRISTOE	33
AUDREY ETIENNE	76	VALERIE DUNN	43	JEFF FREY		KERRY O'BRIEN	36
RINCONADA	9:14.94	ROSEMARY MCNALLY	45	JOHN SMITH		LEIF LUNSFORD	23
MARTY BARRY	60			WALNUT CREEK	1:45.25	DAVIS AQUATIC	1:46.04
NAN BLACKLEDGE	68	200-239		TOM FRISTOE	33	CHRISTOP MORGAN	22
JANINE OLSON	53	R:SAN DIEGO	90 11:58.26	JEFFF RODGERS	26	ANDRE MCPHERSON	46
ELLEN TAIT	82	ADRIENNE PIPES		TOM ORTEGA	25	MICHAEL COLLINS	27
		BETSY JORDAN		LEIF LUNSFORD	23	GREGORY JOHNSON	36
280-319		JEANNE LITTLE		S.E.METRO	1:47.21	SOUTH TEXAS	1:46.06
R:WALNUT CREEK	93 8:32.38	BARBARA DUNBAR		CAREY REHDER	28	LARRY WOOD	39
PAT PREVETZ		ST. PETE	14:51.29	ERIK ERBE	28	B.RANSOM-NELSON	40
JAE HOWELL		B.J. TUCKER	58	JEFF SHEA	30	TOM DUNDON	33
ANN PISCIOTTA		BARBARA ALLEN	59	MATT STEVENS	33	PETE NUNAN	35
MARY JANE REEVES		SANDY STEER	53	OMAHA	1:48.78		
WALNUT CREEK	8:32.38	KATE KNIGHT-PERRY	56	ANDY GALE	26	160-199	
PAT PREVETZ	72	HEARTLAND	17:36.77	SEAN LARSON	24	R:HOLMES	90 1:39.27
JAE HOWELL	70	CECILY MC NEIL	48	TODD SAMLAND	31	JAMES DILLEY	
ANN PISCIOTTA	62	TINA DANIELS	36	JOHN APKER	32	C. MILTENBERGER	
MARY JANE REEVES	76	ELFRIEDE LEHTO	60	ARKANSAS	1:51.64	RICHARD ABRAHAMS	
*****		TRISHA HUNTER	59	JEFF DUGDALE	21	TIMOTHY GARTON	
RELAYS: WOMEN 800 M. FREE				IAN BULLOCK	34	THE OLYMPIC CLB	1:43.04
*****				MIKE GOODPASTER	21	STEVE CLARK	50
76 - 99				JOHN MCGOUGH	29	JAMES ELDER	50
R:DAVIS	92 10:56.32	240-279		SANTA CRUZ	1:54.49	MIKE KECK	33
CHRIS WINN		R:WALNUT CREEK	92 13:28.86	DOUG PETRIE	24	STUART CORLISS	37
JENNIFER BLAKE		BETTY BARABASH		MICKEY WENDER	26	THE OLYMPIC CLB	1:46.66
JENNIFER NORRIS		JOAN ALEXANDER		MARTIN LIVESY	28	TIM BIRNIE	47
TINA WALLIS		ANN PISCIOTTA		GORDON SMITH	38	ROBERT STRAND	47
NO RELAY TEAMS		BARBARA JORDAN				JOHN FOOTE	42
		SAN DIEGO	16:05.88			RANDY WILLIAMS	42
100-119		BOBBI TURCOTTE	66	120-159		TEAM OHIO	1:47.96
R:WALNUT CREEK	89 9:50.91	ADRIENNE PIPES	59	R:LONE STAR	86 1:37.43	THOMAS OLANDER	51
CAROL LEE-HELTZEL		ALICIA COLEMAN	68	DAVID HAGUE		ORRIN NORDSTROM	52
CATHEY COOLEY		SUSAN RITTENHOUSE	55	TRIP HEDRICK		JOHN PEARSON	27
DEBBIE FLANSBURG				BUCK SMITH		JOE REINHARDT	32
AMY REIGER		280-319		JIM MONTGOMERY		HOUSTONIAN	1:50.52
DAVIS AQUATIC	10:30.29	R:WALNUT CREEK	92 16:17.09	BAYLOR/L STAR	1:38.02	RICHARD ENRIGHT	40
CHRIS CHICHESTER	30	JEAN DURSTON		STEVEN REED	25	ED LEWIS	45
CHRIS WINN	27	MARY JANE REEVES		BOBBY PATTEN	30	BOB BAILIE	57
LISA STRAMPACH	34	JAE HOWELL		JAY YARID	30	RUSSELL KNEIPP	24
		DONNA MONROE		TRIP HEDRICK	39		
		WALNUT CREEK	17:03.31				

TOP TEN

Long Course Meters

MINNESOTA	1:52.43	SMS	2:04.44				ANTHONY ZARKA	23
LARRY NYMAN	40	JAMES DONNELLY	44	280-319			HOT	2:22.40
RIAN GRESETH	31	BALINT PAPP	71	R:LAM	92	2:10.75	SCOT WILLIAMS	22
ROBERT DAVIDSON	45	HENRY GLANCY	55	JOHN RICHARDS			MATT DUKE	22
ROBIN KLEFFMAN	45	RICK WALKER	42	JAY CRADDOCK			M.LINEBARIER	25
LAKESIDE	1:52.55	VIRGINIA	2:05.25	JACK MCCANN			JOHN ARGRAVES	19
RUSSEL WILLIAMS	33	CHUCK WILMORE	58	HUGH RICHARDS				
JOHN NOLAN	44	WILLIAM IRWIN	65	SAN MATEO	2:24.07		100-119	
WILLIAM TINGLEY	43	EDWIN MCCOWAN	45	EDWARD MORAN	75		R:HOUSTONION CLUB90	1:48.46
ROBERT RUEFF	46	JIM MILLER	43	FRED TAIOLI	72		CLAY BRITT	
SANTA CRUZ	1:52.57	SAN DIEGO	2:06.25	ROBERT CUNNINGHAM	65		DEAN PUTTERMAN	
BILL DRULIAS	41	BILL EARLEY	56	RAY TAFT	74		ROBERT KILLEEN	
JOHN SULTON	46	JOHN GOODE	59	SAN DIEGO	2:44.09		JAMES PRINGLE	
JIM DEMING	34	DONALD BAKER	62	MILTON SENS	67		ORLM	1:58.62
JOEL WILSON	44	DARRELL RUCKER	35	JERRY SIEFERT	75		PAUL ROBINSON	25
THE OLYMPIC CLB	1:53.02			TOM DOWELL	71		F.CHARMFOROOSH	27
MIKE GARIABALDI	47	240-279		RAYMOND SPENCER	70		DANIEL HAYES	29
CHARLES YOURD	41	R:GOST	92	HOLMES LUMBER	2:51.43		L.J. MEISENHEIMER	35
RICHARD BASSI	52	THOMAS OLANDER		TELFAIR MAHAFFY	57		S.E.METRO	2:01.65
EDWARD RUDLOFF	46	SID HALL		DICK LYMAN	74		JEFF SHEA	30
WALNUT CREEK	1:53.70	KEITH CARTER		BRUD CLEVELAND	75		CAREY REHDER	28
JIM KING	46	JOHN FLORANCE		F.H. TILLOTSON	78		MATT STEVENS	33
DON DAVIS	48	MINNESOTA	2:06.91	LONG BEACH	2:52.83		ERIK ERBE	28
DAVID AHLMAN	42	JAMES WHITE	51	WOODY BOWERSOCK	80		OMAHA	2:04.19
KEVIN WARD	36	MARK LITMAN	48	BRION WINSHIP	75		SEAN LARSON	24
BAYLOR/L STAR	1:53.89	RAYMOND HAKOMAKI	72	JOHN GLENN	82		TODD SAMLAND	31
DAVID HAGUE	39	EDWARD JOHNSON	75	EMILE ACHEE	66		JOHN APKER	32
ROBERT LANIUS	41	TEAM OHIO	2:08.65	ST. PETE	2:53.47		ANDY GALE	26
LARRY WOOD	40	PETE OKUMOTO	77	ROBERT ATWOOD	73			
BERRY HAMILTON	40	THOMAS TRIPP	51	JOHN JOHNSTON	77		120-159	
		JOHN FLORANCE	70	ROBERT PATTON	71		R:BAYLOR/L STAR 93	1:50.89
200-239		YOSHI OYAKAWA	60	ABRASHA BRAININ	70		JAY YARID	
R:OLYMPIC CLUB 92	1:47.65	NEW ENGLAND	2:11.90	ST. PETE	3:41.03		BERRY HAMILTON	
ROBERT STRAND		WAYNE PICKERING	56	JOE BAKER	54		BOBBY PATTEN	
DONALD HILL		JAMES EDWARDS	70	JAMES MITCHELL	81		STEVEN REED	
JAMES ELDER		TED HAARTZ	65	FRED WALBOLT	80		BAYLOR/L STAR	1:50.89
BOB MOMSON		PHILLIP WHITTEN	50	KERMIT HOTVEDT	78		JAY YARID	30
LOS ALTOS	1:50.62	SAN DIEGO	2:16.07				BERRY HAMILTON	40
KEEFE LODWIG	50	GORDON GILLIN	62	320-359			BOBBY PATTEN	30
THOMAS BOAK	50	JERRY SIEFERT	75	R:LONG BEACH 92	2:59.65		STEVEN REED	25
ROBERT PROEBSTING	56	DON HUBBARD	66	DON NEEFE			WALNUT CREEK	1:54.63
EDWARD CAZALET	51	WILLIE WACHOB	40	JOHN GLENN			STEVEN BREITER	37
MINNESOTA	1:57.62	COLONIALS-1776	2:18.13	LIONEL PEREIRA			THOMAS FRISTOE	33
JACK LEIGH	62	HENRY SHOSTCHUK	75	WOODY BOWERSOCK			DAVE CADEMARTORI	27
RICHARD LEIGH	68	B HUNGERFORD	60	BAYLOR/L STAR	2:57.21NV		LEIF LUNSFORD	23
NATHAN LEIGH	37	ROBERT HARRIS	67	BENNETT ALLEN	79		MINNESOTA	1:57.21
JAY LEIGH	34	ROBERT KROTEE	38	TEX ROBERTSON	84		MARK WHITESIDE	28
SAN MATEO	1:59.99	OREGON	2:19.34	JESSIE COON	82		JEFFREY KENNEDY	33
RAWDY BROWN	45	ARTHUR WELCH	60	GUS CLEMENS	75		JOHN MCCALL	41
STANLEY PANKO	55	EARL WALTER	72	DC MASTERS	3:24.61		TIM DALY	35
DICK PETERSON	56	GILBERT YOUNG	71	SIDNEYSAPERSTEIN	77		HOUSTONIAN	1:59.21
DONALD GALINE	47	RICHARD BOYD	50	DAVID MCAFEE	83		RUSSELL KNEIPP	24
WALNUT CREEK	2:00.48	MICHIGAN	2:22.12	BERT KASSELL	80		RICHARD ENRIGHT	40
CARY KENT	41	DONALD KROEGER	49	KELLEY LEMMON	81		ROBERT KILLEEN	31
MIKE MILLIMAN	58	CHARLES MOSS	65	*****			ALAIN SAURY	26
DON BROWN	60	HAM MORNINGSTAR	76	RELAYS: M E N 200 M. MEDLEY			CRAW	1:59.73
JAMES KING	46	CHARLES BELKNAP	68	*****			NEIL HARPER	28
MICHIGAN	2:01.89	WALNUT CREEK	2:22.81	76 - 99			STEVE HECK	43
THOMAS HUNT	46	MIKE MILLIMAN	58	R:UNIV SAN FRAN 92	1:52.24		DEAN PRZYMUS	32
CHARLES MAAS	59	ERNIE SMITH	72	ANDREW GELLER			TERRY JAYNES	37
DENNIS MCMANUS	45	DON BROWN	60	JOHN HARLOW			DAVIS AQUATIC	1:59.98
ROBERT ISBISTER	52	JACK LANCE	50	GREG MACKEM			GREGORY JOHNSON	36
DC MASTERS	2:01.94	ORLM	2:23.32	GARY YANG			MICHAEL COLLINS	27
BRUCE FISHER	45	GEORGE MANN	55	THE OLYMPIC CLB	1:54.86		CHRIS MORGAN	22
FRANK MURPHY	75	ROY HEWITT	60	GARY ANTONICK	30		ANDREW MCPHERSON	46
JOHN CALVERT	47	JIM CONGER	73	ERIC TARBELL	21		PSC	2:00.70
FRED MUNSON	35	VICTOR SIRBU	55	JIM MURRAY	24		D.BAKER	32
ST. PETE	2:03.99	THE OLYMPIC CLB	2:28.57	STEPHEN GOTH	24		TODD SPENCER	33
HAROLD FERRIS	62	STEVE JONES	47	TEAM	1:54.94		D.ARTHUR	24
GARY TRIMBLE	50	DENIS RICE	61	GREG BURNS	19		SCOTT O'CONNOR	35
C.H. KOHNKEN	61	EDWARD RUDLOFF	70	GREG STELLE	26		MINNESOTA	2:00.84
JEFF SALOMON	32	WILLIAM CALLENDER	65	A.T. COSTANTINI	22		PAUL WINDRATH	39

TOP TEN

Long Course Meters

JOSEPH VRUDNY	28	R:OLYMPIC CLUB	92	2:00.25	COLONIALS-1776	2:25.95	ST. PETE	4:44.00
DENNIS MATTAI	35	JAMES BEGLINGER			ROGER FRANKS	66	FRED WALBOLT	80
KEN APEL	31	ROBERT STRAND			NORMAN GARSOE	69	JAMES MITCHELL	81
TEAM	2:02.03	STEVE CLARK			ROBERT KROTEE	38	ROBERT PATTON	71
THOMAS SMITH	31	DONALD HILL			ROBERT HARRIS	67	KERMIT HOTVEDT	78
A.(JR.) POCHE	38	THE OLYMPIC CLB		2:12.55	SOUTHERN CAL.	2:26.24		
PAUL WISE	37	RICHARD BASSI		52	GEORGE BRINTON	69	320-359	
MICKY MITALY	22	EDWARD RUDLOFF		70	WAYNE MCCAULEY	45	R:LONG BEACH	92 3:58.14
IOWA	2:02.79	RANDY WILLIAMS		42	JURGEN SCHMIDT	70	DON NEEFE	
KEN BRENTON	34	JAMES ELDER		50	FRANK PIEMME	68	JOHN GLENN	
WARREN TUNWALL	32	HOUSTONIAN		2:12.66	NEW ENGLAND	2:29.21	WOODY BOWERSOCK	
LYNN MANNING	36	HENRY MECREDEY		46	PHILLIP WHITTEN	50	LIONEL PEREIRA	
BARRON CUDDA	38	WES SMITH		64	TED HAARTZ	65	BAYLOR/L STAR	3:22.86NV
		DUDLEY TARLTON		63	WAYNE PICKERING	56	TEX ROBERTSON	84
		DIETRICH BOLZ		53	JAMES EDWARDS	70	BENNETT ALLEN	79
160-199		SAN MATEO		2:16.95	LINCOLN	2:30.79	JESSIE COON	82
R:OLYMPIC CLUB	93	DONALD GALINE		47	EDWARD SHEA	78	GUS CLEMENS	75
TIM BIRNIE		STANLEY PANKO		55	DIETER KULICKE	52	*****	
STUART CORLISS		RAWDY BROWN		45	KURT MOEHLMANN	41	RELAYS: M E N 400 M. FREE	
JEFF STILING		DICK PETERSON		56	ROBERT PREBLE	70	*****	
STEVE CLARK		WALNUT CREEK		2:19.38	TEAM OHIO	2:31.08	76 - 99	
THE OLYMPIC CLB	1:54.45	MIKE MILLIMAN		58	YOSHI OYAKAWA	60	R:EMPIRE	92 4:11.98
TIM BIRNIE	47	DON BROWN		60	JOHN FLORANCE	70	SCOTT HIROSE	
STUART CORLISS	37	JAMES KING		46	THOMAS TRIPP	51	DAVID GUION	
JEFF STILING	33	CARY KENT		41	PETE OKUMOTO	77	ALEXANDER HALL	
STEVE CLARK	50	SMS		2:19.56	SAN DIEGO	2:32.14	JACK MACKENROTH	
TEAM OHIO	2:02.13	JAMES DONNELLY		44	GORDON GILLIN	62	NO RELAY TEAMS	
JOE REINHARDT	32	RICK WALKER		42	PETER RIDDLE	55		
JOHN PEARSON	27	C.D. NIELSEN		47	DONALD HUBBARD	66	100-119	
ORRIN NORDSTROM	52	BALINT PAPP		71	DONALD BAKER	62	R:WALNUT CREEK	92 3:45.83
THOMAS OLANDER	51	MICHIGAN		2:19.66	OREGON	2:39.77	CHRIS BOND	
BAYLOR/L STAR	2:04.32	THOMAS HUNT		46	EARL WALTER	72	JIM MIDDLETON	
STEPHEN BOSTER	42	DONALD KROEGER		49	RICHARD BOYD	50	STEVE STAHL	
BERRY HAMILTON	41	THOMAS MOYER		45	ARTHUR WELCH	60	DAVE CADEMATORI	
DAVID HAGUE	39	JOHN RIES		61	GILBERT YOUNG	71	NO RELAY TEAMS	
TRUETT SMITH	42	GREATER INDIANA		2:21.03	O*H*I*O	2:42.79		
MICHIGAN	2:05.14	GEORGE QUIGLEY		53	JOHN DAILY	65	120-159	
FRANK THOMPSON	41	MEL GOLDSTEIN		54	PAUL KRUP	75	R:TEXAS SWIMAST	89 3:50.76
STEVE HANSEN	41	DAVID TANNER		43	DUANE GRASSELL	36	WENDELL SMITH	
LEONA BROCKHAHN	43	JERRY MYERS		55	DEXTER WOODFORD	79	LARRY WOOD	
DAVID SHEPHERD	37	ST. PETE		2:21.85			CHRIS WALKER	
LAKESIDE	2:06.89	PAUL HUTINGER		68			SAM SEIPLE	
WILLIAM TINGLEY	43	GARY TRIMBLE		50	280-319		HOUSTONIAN	4:02.23
JAMES GOODWIN	46	BILL STEPHENS		41	R:OREGON	92 2:34.57	KURT SMITH	32
JOHN NOLAN	44	D.(JR.) GREELE		50	FLOYD ELIOTT		GARY QUINN	35
RUSSELL WILLIAMS	33	SAN DIEGO		2:23.15	BOB MORRISON		TOM REUDY	38
MINNESOTA	2:08.44	JOHN GOODE		59	ANDREW HOLDEN		BRUCE HATTON	36
WAYDE MULHERN	34	ERIC NEILSEN		27	GERALD HUESTIS		VENICE	4:06.43
ROBERT DAVIDSON	45	BILL EARLEY		56	SAN MATEO	2:47.17	MATT SEEGER	35
GEORGE BOWLIN	41	DONALD BAKER		62	EDWARD MORAN	75	DAVID COCKER	35
JOE VON DRASEK	40	ST. LOUIS		2:24.44	ROBE CUNNINGHAM	65	DAVID KASTIGAR	29
MINNESOTA	2:09.20	CHRIS BERRIEN		39	RAY TAFT	74	BRUCE STAHL	35
THOMAS RUSHFELDT	42	WILLIAM CANNON		63	FRED TAIOLI	72	MINNESOTA	4:23.43
JOHN EVERS	39	SCOTT HALLIBURTON		31	SAN DIEGO	3:07.32	BILL CENTNER	40
PHIL ROGOSHESKE	48	ROBERT BLAKE		68	JERRY SIEFERT	75	NATE LEIGH	37
MARK TRAMPF	35				TOM DOWELL	71	PAUL PERRY	35
BOLT	2:09.49				FRED WADSWORTH	64	STEVE NELSON	40
L SCHMITT	24	240-279			RAYMOND SPENCER	70	GOLD COAST	4:28.92
HUGH FLEMING	43	R:LINCOLN	91	2:21.20	HOLMES LUMBER	3:10.41	ED AMES	23
DEAN EKBERG	37	GEORGE GANDSEY			F.H. TILLOTSON	78	MARK JONES	31
DICK BOWER	63	BILL MULLIKEN			BRUD CLEAVELAND	75	FRED PERRY	34
BAYLOR/L STAR	2:11.02	PAUL HUTINGER			TELFAIR MAHAFFY	57	DAVID OWEN	41
RICHARD HAAS	43	SAM KOOISTRA			DICK LYMAN	74	HOUSTONIAN	4:29.37
JOHNNY CRAWFORD	61	MINNESOTA		2:21.67	ST. PETE	3:31.39	MARK SPRATT	37
PETER MICHEL	50	RAYMON HAKOMAKI		72	ROBERT ATWOOD	73	THOMAS WILSON	38
ROBERT HUDEK	31	VIRGIL LUKEN		50	ABRASHA BRAININ	70	JORGE ALATORRE	28
HOUSTONIAN	2:12.66	ROBIN KLEFFMAN		45	JOHN JOHNSTON	77	MICHAEL MEALIFFE	53
JOE STEVENS	42	EDWARD JOHNSON		75	C.H. KOHNKEN	61	HEARTLAND	4:45.00
RICHARD ENRIGHT	40	MICHIGAN		2:25.44	LONG BEACH	3:33.85	MOZE MOSSAY	39
BOB BAILE	57	HUGH RODDIN		51	LOUIS GIBERSON	72	MIKE TOPE	37
MIKE HARRIS	46	CHARLES MOSS		65	JOHN GLENN	82	RON SCHAFFER	35
		CHARLES MAAS		59	WOODY BOWERSOCK	80	STEVEN SAPPER	35
200-239		BOB HERITIER		65	BRION WINSHIP	75		

TOP TEN

Long Course Meters

VENICE	4:48.04	JIM SHAW		ED AMES	23	HEARTLAND	6:47.30
TERENCE YOUNG	27	ALDO DA ROSA		MARK JONES	31	RON CATTON	48
GREG EVANS	40	ELI GOLDFARB		FRED PERRY	34	RON WILLIAMSON	54
JERRY LOZANO	40	DICK BENNETT		OREGON	5:07.70	DAVID BUTLER	45
JOHN KOCKER	38	SAN DIEGO	6:00.69	JOHN ZELL	36	RUDOLPH SAPPER	60
ROSE BOWL	4:50.05	JERRY SIEFERT	75	DAVID COBB	33		
JAY LOPEZ	32	DON HUBBARD	66	MIKE DAVIS	39	240-279	
BRENNAN BYERS	37	GORDON GILLIN	62	STEPHEN HARGER	34	R:RINCONADA	91 5:31.14
MIKE RAVEN	42	PETER RIDDLE	55	ALHAMBRA	5:08.41	ELI GOLDFARB	
ROBERT BREITEL	25			TYRONE BROWN	29	ALDO DA ROSA	
		280-319		PIERRE SMITH	38	DAVID LEVINSON	
160-199		R:OREGON	93 5:41.34	FABIO ASTUDILLO	40	ED KERSWILL	
R:LOS ALTOS	89 4:03.69	EARL WALTER		STEVE LATTA	25	RINCONADA	6:21.18
BOB PROEBSTING		FLOYD ELIOTT		HEARTLAND	6:15.30	ELI GOLDFARB	68
DICK THOMAS		GIL YOUNG		CHUCK HARTJE	34	ALDO DA ROSA	75
ED CAZALET		ANDREW HOLDEN		MOZE MOSSAY	39	ANGIE MATMANS	65
TIM MAXIMOFF		OREGON	5:41.34	DAVID SAPPER	38	DICK BENNETT	62
HEARTLAND	4:24.38	EARL WALTER	72	STEVEN SAPPER	35	SAN DIEGO	6:55.86
LEE MENCH	40	FLOYD ELIOTT	66			BILL EARLEY	56
MARK SPRATT	37	GILBERT YOUNG	71	160-199		DON HUBBARD	66
DAVID SAPPER	38	ANDREW HOLDEN	74	R:CAL TECH-PAC	87 4:39.43	JOHN GOODE	59
JERRY O'MARA	46	*****		R. HOOPER		DONALD NELLIS	67
GOLD COAST	4:24.95	RELAYS: M E N 400 M. MEDLEY		G. DOWNS			
NICK TUSSING	45	*****		M. COOPER		280-319	
ROBERT BOX	45	76 - 99		R. WISNER		R:COLONIALS	90 6:30.60
DAVID OWEN	41	R:EMPIRE	92 4:40.23	WALNUT CREEK	4:49.22	ROGER FRANKS	
DAVID SCOTT	45	SCOTT HIROSE		DAVID AHLMAN	42	NORMAN GARSOE	
JERSEY MASTERS	4:31.31	JACK MACKERROTH		DON DAVIS	48	BIRCH DAVIDSON	
RICHARD WALLACE	45	ALEXANDER HALL		DENNIS SHANNON	40	FRANK BELLAIRE	
ED NESSEL	48	MARK SCHOOF		CARY KENT	41	OREGON	6:39.43
RICHARD ALEXANDER	49	NO RELAY TEAMS		RINCONADA	4:53.92	FLOYD ELIOTT	66
RICHARD BOHAN	42			JOHN SELMER	47	EARL WALTER	72
ROSE BOWL	4:32.66	100-119		FRED FARLEY	39	ANDREW HOLDEN	74
PAUL LOFTHOUSE	45	R:SANTA BARBARA	88 4:18.93	KEN FATTLAR	36	GILBERT YOUNG	71
GARY LANGENDOEN	47	A. GOLDSCHMIDT		JIM SHAW	52	SAN MATEO	7:11.37
BOB COALE	53	WILLIAM CORRIGAN		JERSEY MASTERS	5:31.68	RAY TAFT	74
WALTER HITCH	40	MATTHEW LUM		ED NESSEL	48	WALT WELLS	75
BERKELEY ACM	5:08.74	GREGORY BAXTER		RICHARD BOHAN	42	ROBERT CUNNINGHAM	65
MARK KUHN	39	VENICE	4:42.46	TOM BLACKBURNE	40	FRED TAOLI	72
GLEN DIENER	42	DAN BORTON	25	RICHARD WALLACE	45	*****	
STAN ASHARE	53	DAVID KASTIGAR	29	HEARTLAND	5:33.39	RELAYS: M E N 800 M. FREE	
PETER MC COY	42	TERENCE YOUNG	27	DOUGLAS SELBY	48	*****	
GOLD COAST	6:22.12	BRUCE STAHL	35	JERRY O'MARA	46	76 - 99	
JOE HUTTO	41			A. MAC HALL	34	R:DAVIS	89 9:11.58
CHUCK BLEVINS	46	120-159		MICHAEL SAPPER	37	MIKE COLLINS	
SHEP RICHARD	50	R:TEXAS SWIMAST	89 4:20.98	RINCONADA	6:04.23	JEFF BAILEY	
JOE BORDEN	49	JOHN KRUMNOW		DAVE MARKER	35	JEFF HICKS	
		RICK ENRIGHT		JOHN JAY	36	TOM MCNAMARA	
200-239		SAM SEIPLE		C. FAIRCHILDS	68	NO RELAY TEAMS	
R:OREGON	92 4:28.75	LARRY WOOD		JIM WANDERER	27		
BERT PETERSEN		DAVIS AQUATIC	4:40.21			100-119	
ROBERT SMITH		GREG JOHNSON	35	200-239		R:LYNBROOK	89 8:36.26
TOM FANNING		MICHAEL COLLINS	27	R:OREGON	92 5:01.24	ROY WESSBACHER	
RICHARD BOYD		ANDY MCPHERSON	46	ROBERT SMITH		BRENT MCKIN	
DC MASTERS	4:29.38	CHRIS MORGAN	22	RICHARD BOYD		JOHN SCHMIDT	
LEE BETTIS	55	SAN MATEO	4:48.30	BERT PETERSEN		BRYAN PAUL	
ROBERT BENNETT	50	ERICH RASIMUS	28	TOM FANNING		NO RELAY TEAMS	
ROBERT CASEY	48	CRAIG SIHNER	33	MICHIGAN	5:05.76		
JOHN CALVERT	47	BRENT WASHBURNE	31	FRANK THOMPSON	41	120-159	
SAN DIEGO	5:01.52	MARK CANEPA	28	JOHN STENROOS	30	R:HEARTLAND	92 8:48.95
JOHN GOODE	59	SANTA CRUZ	5:02.35	CHARLES MOSS	65	MIKE TOLMAN	
BILL EARLEY	56	JOEL WILSON	44	BOB HERITIER	64	JEFF REILLY	
DONALD BAKER	62	MARTIN LIVESEY	27	SAN MATEO	5:11.07	RANDY EICKHOFF	
DARRELL RUCKER	35	JOHN PARKER	29	DON GALINE	47	LEE MENCH	
HEARTLAND	5:18.67	BILL DRULIAS	41	DICK PETERSON	56	ROSE BOWL	9:40.47
DOUGLAS SELBY	48	MINNESOTA	5:02.88	RANDY BROWN	45	ROBERT BREITEL	25
MIKE PHILLIPS	51	WAYDE MULHERN	34	BILL STEUART	56	PAUL LOFTHOUSE	45
RON CATTON	48	MICHAEL GERADS	23	OREGON	5:15.28	GARY LANGENDOEN	47
RON WILLIAMSON	54	PAUL WINDRATH	39	ROBERT SMITH	50	FRANCISCO PEREZ	26
		KARL LESLIE	33	MILTON MARKS	62	HEARTLAND	9:59.39
240-279		GOLD COAST	5:06.63	MATHEW ROTH	26	JEFF REILLY	32
R:RINCONADA	90 5:08.29	DAVID OWEN	41	ERIC GP. GUEST	63	MIKE TOPE	37

TOP TEN

Long Course Meters

RON SCHAFFER	35	GILBERT YOUNG		HEATHER O'BRIEN	30	SAM BLYTHE	33
CLINT MERRIMAN	22	EARL WALTER		PAUL ROBINSON	25	RUSSELL WILLIAMS	33
DAVIS AQUATIC	10:01.11	ANDREW HOLDEN		CRAW	1:58.26	HEARTLAND	1:57.75
GREG JOHNSON	36	LONG BEACH	16:45.27	DEAN PRZYMUS	32	RON SCHAFFER	35
MIKE COLLINS	27	LOUIS GIBERSON	72	PAIGE HARPER	27	VICKY DAVIDSON	28
ROBERT NORRIS	55	WOODY BOWERSOCK	80	SANDY COLBY	30	PATTY STARKS	33
CHRIS MORGAN	22	JOHN GLENN	82	NEIL HARPER	28	JEFF REILLY	32
MINNESOTA	10:12.27	EMILE ACHEE	66	NCAM	1:59.79		
DENNIS MATTAI	35	*****		ANN BAGLEY	31	160-199	
PAUL WINDRATH	39	RELAYS: MIXED 200 M. FREE		JOHNNY LAVENDER	24	R:RMM	92 1:47.46
PHIL ROGOSHESKE	48	*****		LOREN SMITH	32	CATHY DROZDA	
WAYDE MULHERN	34	76 - 99		JON HOWELL	25	JUDY REED	
GOLD COAST	10:12.81	R:UNIV SAN FRAN	92 1:48.50	LAKESIDE	2:02.05	TOM WHATLEY	
ED AMES	23	CYNTHIA HINSHAW		SUSAN AUGUSTUS	26	RICHARD ABRAHAMS	
ROBERT BOX	45	GARY YANG		SUZANNE HAWKINS	26	LOS ALTOS	1:52.28
KIRK MEYER	33	JANET HAUER		JAMIE COBB	28	KEEFE LODWIG	50
MARK JONES	31	ANDREW GELLER		TED LEE	36	EDWARD CAZALET	51
VENICE	10:49.82	TEAM	1:51.05	PLANO WETCATS	2:03.99	CAROLYN BOAK	48
JERRY LOZANO	40	GREG BURNS	19	S STEINHILBER	23	AIMEE LEHR	26
DAVID KOCKER	35	KIMBERLY WISE	36	SUNNY SMILEY	23	GREATER INDIANA	1:54.30
JOHN KOCKER	38	E.A. SOLLEE	21	ROBERT POSEY	30	MARYANN STEVENS	40
MATT SEEGER	35	JOHN CARR	23	JAMES PETERS	30	NAN WITCHER	38
		RALEIGH AREA	1:56.11			DAVID TANNER	43
160-199		JIM VAN WELZEN	22	120-159		JOEL STAGER	40
R:D.C. MASTERS	87 9:12.20	ANITA IRONS	29	R:LONE STAR	87 1:44.84	LINCOLN	1:55.19
PAUL BROWN		LINDSEY NATA	19	L.MORRISON-CASEY		KURT MOEHLMANN	41
DAVE LYONS		ANDY FARRELL	22	JACKIE HIRSTY		C STONESIFER	40
JORGE GONZALES		ORLM	1:56.39	RICHARD HESS		IRENE DAVID	49
DAVE AUDLEY		F.CHARMFOROOSH	27	JIM MONTGONERY		DAVE GIBSON	33
WALNUT CREEK	10:08.25	DANIELLE SIRBU	19	OAHU CLUB	1:49.81	SAN DIEGO	1:57.01
KERRY O'BRIEN	36	AMANDA HALL	24	ROWDY GAINES	33	BARBARA DUNBAR	44
STEVE BREITER	37	DANIEL HAYES	29	CAROLE MASSIE	30	MARILYN S FINK	39
TOM ARRINGTON	42	DAVIS AQUATIC	1:57.05	CHRISSEY LAMBERT	26	WILLIAM BEHUN	41
FRED TRASK	65	CHRIS MORGAN	22	JIM LILLEY	32	WILLIE WACHOB	40
HEARTLAND	11:25.12	CHRISTINE SCHULTZ	22	LINCOLN	1:51.22	WALNUT CREEK	1:57.13
DAVID SAPPER	38	BETH SKOREY	21	PATTY REDIG	33	PATTY LANDERS	36
MICHAEL SAPPER	37	MICHAEL COLLINS	27	MARY JO FERRIS	32	DEBBI FLANSBURG	37
STEVEN SAPPER	35			TOM REDIG	32	JAMES KING	46
GENE SAPPER	63			THOMAS SMITH	28	CARY KENT	41
		100-119		MICHIGAN	1:52.10	ST. PETE	1:57.58
200-239		R:HOLMES	88 1:45.58	GLENN COLE	33	ANNE PAGE	45
R:OAHU CLUB	92 10:22.54	MARK SCHUMAN		KRISTIN NELSEN	27	JOHN EDWARDS	44
MIKE SHERILL		MARY HOLMES		BOB JENNINGS	27	JUDY STEFANICK	42
HAROLD SEXTON		SAM SEIPLE		PATRICIA ROHNER	33	CHRIS OLDEN	31
JAMES KRUEGER		TISH BUCHER		HOLMES LUMBER	1:53.47	HEARTLAND	1:58.22
JAMES LILLEY		HOUSTONIAN	1:47.93	WALTER STEELE	29	LEE MENCH	40
HEARTLAND	12:50.86	RUSSELL KNEIPP	24	KATHY STEELE	29	DOUGLAS SELBY	48
DAVID SZUCH	50	STACY JONES	27	GINA AGUILAR	34	KELLI DOLE	35
MIKE PHILLIPS	51	ROBERT KILLEEN	31	JACK MCKEAN	28	LYNN MACDONALD	38
RON CATTON	48	KYLE FISHER	22	S.E.METRO	1:53.99	LAKESIDE	2:00.81
RUDOLPH SAPPER	60	WALNUT CREEK	1:49.08	JUDITH LALLIER	34	MARY CHRIS CURL	36
		MICHELLE GHIGGERI	24	MATT STEVENS	33	JEAN HENDERSON	46
240-279		SUZANNE HEIM	35	RANDI NEHRING	33	JOHN NOLAN	44
R:SAN MATEO	93 11:33.76	DAVID CADEMARTORI	27	JEFF SHEA	30	WILLIAM TINGLEY	43
RAY TAFT		THOMAS FRISTOE	33	ST. PETE	1:54.19	NIAGARA	2:02.99
BOB CUNNINGHAM		VENICE	1:55.93	TIM MCGINNIS	35	DEENA CROSSMORE	29
BILL STEUART		DAVID KASTIGAR	29	LISA FLANAGAN	30	DENISE EVERITT	40
DICK PETERSON		LARA FOREMAN	24	LORI STAUCH	28	JAMES PITTS	63
SAN MATEO	11:33.76	NELL REGAN	23	BRIAN VAILE	31	EDWARD CROSSMORE	45
RAY TAFT	74	BRUCE STAHL	35	LINCOLN	1:54.37	OREGON	2:03.59
ROBERT CUNNINGHAM	65	S.E.METRO	1:55.94	SUSAN STANLEY	26	RICHARD BOYD	50
BILL STEUART	56	ERIK ERBE	28	JANE ROBIE	35	GINGER PIERSON	47
DICK PETERSON	55	TAMARA GREWENOW	25	TED SOLTYS	33	STEVE JOHNSON	45
ST. PETE	13:33.29	LEIGH BENSON	22	ROBERT YOUNG	28	LORLEE ENGLER	24
RALPH PERRY	60	CAREY REHDER	28	MINNESOTA	1:54.59		
JOHN COX	58	OMAHA	1:57.01	CYNTHIA MALTRY	38	200-239	
C.H. KOHNKEN	61	ANDY GALE	26	SARA LEIGH	30	R:LOS ALTOS	92 1:58.15
HAROLD FERRIS	62	SUSAN NEEDHAM	32	JAY LEIGH	34	EDWARD CAZALET	
		JEAN APKER	33	NATHAN LEIGH	37	CAROLYN BOAK	
280-319		SEAN LARSON	24	LAKESIDE	1:54.64	ARLENE PROEBSTING	
R:OREGON	92 12:49.88	ORLM	1:58.01	MELINDA SCHMITT	34	ROBERT PROEBSTING	
GERALD HUESTIS		DEBRA HANSON	29	AMY POPE	32	LOS ALTOS	2:02.09
		JORGE LENSE	34				

TOP TEN

Long Course Meters

THOMAS BOAK	50	CHARLES KOHKEN	61	AGOTA FROHS	73	MISSOURI VALLEY	2:09.89
ARLENE PROEBSTING	50	J.G. PIPER	56	CATHY WRENN	66	DAVID SWENSON	30
KRISTINA KING	45	KATE KNIGHT-PERRY	58	JACK TRUBY	69	LOUISE KEOGH	24
ROBERT PROEBSTING	56	PAUL HUTINGER	68	JOHN WRENN	72	TRACY PECK	26
MINNESOTA	2:04.84	COLONIALS-1776	2:31.14	HOLMES LUMBER	3:04.43	JAMIE PROFFITT	28
JAMES WHITE	51	ANN DALLAM	62	RICHARD AVERY	70	WALNUT CREEK	2:12.17
ROBERT DAVIDSON	45	JEANNE MERRYMAN	70	FLORENCE CARR	68	LEIF LUNSFORD	23
MARSHA SOUCHERAY	52	BARNEY HUNGERFORD	60	RACHEL ERWIN	73	SUZANNE HEIM	35
SUSAN SCHULTZ	53	ROBERT HARRIS	67	DICK LYMAN	74	TOM ORTEGA	25
DC MASTERS	2:08.39	WALNUT CREEK	2:36.50	LONG BEACH	3:18.78	YASUKO MARSTENS	23
BRUCE FISHER	45	MIKE MILLIMAN	58	MAURINE KORNFELD	71	PLANO WETCATS	2:12.85
BARBARA ZAREMSKI	56	JAE HOWELL	70	MADELEINE MILLER	82	SUNNY SMILEY	23
JOANN LEILICH	54	BARBARA JORDAN	56	WOODY BOWERSOCK	80	PAUL CRAIG	29
JOHN CALVERT	47	DON BROWN	60	EMILE ACHEE	66	RICHARD MURPHY	33
MISSOURI VALLEY	2:12.53	ARZONIA	2:42.26	HOLMES LUMBER	3:19.42	SAN STEINHILBER	23
MARY ANDERSON	51	JORDAN WOLLE	64	M.R. NEWMAN	69	ARKANSAS	2:13.53
LINDA MCHENRY	46	MARIAM WOLLE	65	BRUD CLEVELAND	75	PETER WARD	30
LONDON KIRCHNER	55	EDIE GRUENDER	64	JUNE REYNOLDS	71	LYNN HARRIS	30
MIKE CALWELL	52	DAN GRUENDER	63	F.H. TILLOTSON	78	CHERYL WARD	26
LAKESIDE	2:16.52	SAN DIEGO	2:42.82			BRENDA SWEARINGIN	23
RUSSEL WILLIAMS	33	DARRELL RUCKER	35	320-359		SANTA CRUZ	2:14.57
JOHN NOLAN	44	ALICIA COLEMAN	68	R:D C MASTERS	93 3:03.15	DOUG PETRIE	23
CAROL FERGUSON	61	JERRY SIEFERT	75	NANCY CLARK		SARAH DEMYANOVICH	29
MARY MULLINS	62	BOBBI TURCOTTE	66	ANNE WALKER		MICKEY WENDER	26
ST. LOUIS	2:18.88	PACIFIC NW	2:50.41	KELLY LEMMON		MARY CHRISTENSEN	31
ARDETH MUELLER	52	J VALLANDIGHAM	47	DAVID MCAFFEE		CRAW	2:15.71
LEROY ELLENBERGER	51	ALLAN SACHS	80	DC MASTERS	3:03.15	SANDY COLBY	30
CATHERINE KOHN	40	JANET KAVADAS	62	NANCY CLARK	79	NEIL HARPER	28
WILLIAM CANNON	63	STEVEN THRASHER	51	ANNE WALKER	77	PAIGE HARPER	27
VIRGINIA	2:21.16	O*H*1*O	2:51.57	KELLEY LEMMON	81	DEAN PRZYMUS	32
CHUCK WILMORE	58	JOHN DAILY	65	DAVID MCAFFEE	83	RIO	2:19.94
JUDY DECKER	51	DARLYNNE FERGUSON	64	*****		IRENA PRAITIS	26
EDWIN MCCOWAN	45	RICHARD FRYLING	61	RELAYS: MIXED 200 M. MEDLEY		A.SAWICKI	30
BETSY DURRANT	51	PRUDENCE HALL	55	*****		S.MCLEAN	27
NEW ENGLAND	2:22.31			76 - 99		CHRIS AIKMAN	30
SUSA LIVINGSTON	55	280-319		R:UNIV SAN FRAN	92 2:02.31	HOT	2:20.27
DONNA EDELBAUM	60	R:OREGON	92 2:31.29	GARY YANG		ALLAN JAEGERS	30
PHILLIP WHITTEN	50	GERALD HUESTIS		JANET HAUER		KERRY EGGAR	27
JOHN NIXON	37	ANDREW HOLDEN		GREG MACKEM		BECKI MAJOR	29
CONNECTICUT	2:22.52	PETEY SMITH		CYNTHIA HINSHAW		MATT DUKE	22
LIZ HOBBS	31	PAULINE STANGEL		TEAM	2:02.88	VENICE	2:20.39
JULIE STEWART	31	LINCOLN	2:34.74	A.T. COSTANTINI	22	NELL REGAN	23
PETER CRUMBINE	55	BETTY BENNETT	50	E.A. SOLLEE	21	DAVID KASTIGAR	29
GUS LANGNER	90	DAVE MALBROUGH	80	GREG BURNS	19	MEREDITH TAKARA	23
SAN DIEGO	2:24.89	LOUISE DONOVAN	75	KIMBERLY WISE	36	MATT SEEGER	35
VIRGINIA BURNS	42	FRANK HAVLICEK	75	DAVIS AQUATIC	2:09.12		
DONALD BAKER	62	WISCONSIN	2:43.48	BETH SKOREY	21	120-159	
BETSY JORDAN	56	DONALD KILB	66	CHRISTINE SCHULTZ	22	R:D.C. MASTERS	85 1:58.03
GORDON GILLIN	62	S HASSELBACHER	67	CHRIS MORGAN	22	THOMAS WOLF	
		BETTY KENDALL	73	MICHAEL COLLINS	27	MATTHEW KANZLER	
		LYNN SURLES	76	ORLM	2:14.67	SUSAN SKIFF	
240-279		O*H*1*O	2:44.73	AMANDA HALL	24	JACKI HIRSTY	
R:LOS ALTOS	92 2:10.74	PAUL KRUP	75	F.CHARMFOROOSH	27	S.E.METRO	2:02.12
JOHN RICHARDS		DEXTER WOODFORD	79	DANIELLE SIRBU	19	JUDITH LALLIER	34
JAY CRADDOCK		LILLY KRON	61	DANIEL HAYES	29	TAMARA GREWENOW	25
DELLA SEHORN		BETTY RUSS	66	HOT	2:15.47	MATT STEVENS	33
LAURA VAL		NEW ENGLAND	2:46.60	CAROLE FUNK	33	CAREY REHDER	28
SMS	2:22.31	BILLIE BURRILL	72	PAMELA KING	19	LINCOLN	2:05.66
DEBORAH WALKER	42	MARDIE BROWN	76	J.LINEBARIER	25	SUSAN STANLEY	26
BARDI DENDY	72	JAMES EDWARDS	70	SCOT WILLIAMS	22	STEVE BOONE	34
BALINT PAPP	71	TED HAARTZ	65			PATTY REDIG	33
HENRY GLANCY	55	DC MASTERS	2:53.96	100-119		ROBERT YOUNG	28
ST. LOUIS	2:23.05	FRANK MURPHY	75	R:HOUSTONIAN CLUB90	1:56.50	LINCOLN	2:06.77
ARDETH MUELLER	52	LORRAINE MURPHY	75	CLAY BRITT		MARY JO FERRIS	32
CAROL TAYLOR	64	ANNE WALKER	77	L WETZEL-OSBORNE		JANE ROBIE	35
WILLIAM CANNON	63	LEE BETTIS	55	STUART KNOWLES		DAVE GIBSON	33
ROBERT BLAKE	68	SAN DIEGO	2:55.17	REBECCA WETZEL		TOM REDIG	32
CONNECTICUT	2:24.74	MILTON SENS	67	HOUSTONIAN	2:03.20	HEARTLAND	2:07.03
DAVE SAMUELSON	40	ALICIA COLEMAN	67	STACY JONES	27	VICKY DAVIDSON	28
MARGIT JEBE	55	JERRY SIEFERT	75	ROBERT KILLEEN	31	RON SCHAFER	35
ROBERT KNAPP	76	DIANA SILVA	71	RUSSELL KNEIPP	24	PATTY STARKS	33
DOROTHY DONNELLY	71	ROCKY MOUNTAIN	2:55.57	KYLE FISHER	22	LEE MENCH	40
ST. PETE	2:27.52						

TOP TEN

Long Course Meters

ORLM	2:08.99	WALNUT CREEK	2:19.68			FRANK HAVLICEK	75
PAUL ROBINSON	25	JIM KING	46	240-279		LOUISE DONOVAN	75
C.D. MILTENBERGER	41	CAROL LAIRD	51	R:NEW ENGLAND	88 2:29.30	MICHIGAN	3:06.21
HEATHER O'BRIEN	30	DENNIS SHANNON	40	CLARA WALKER		EDITH GLUSAC	74
EILEEN HARTLE	32	M.GHIGGERRI	24	TED HAARTZ		CHARLES MOSS	65
MINNESOTA	2:09.55	GOLD COAST	2:20.07	WIN WILSON		LOIS NOCHMAN	68
CINDY ANDERSON	36	B.EDELMEIER	46	DIANE REED		HAM MORNINGSTAR	76
MICHAEL PEDERSON	26	VINCENT GALLO	49	LOS ALTOS	2:29.22NV	COLONIALS 1776	3:07.55
ANNETTE JAGGER	32	ROSAMARIA MEYER	31	DELLA SEHORN	66	JEANNE MERRYMAN	70
MIKE HALPENNY	29	DAVID SCOTT	45	CAROLYN BOAK	48	NORMAN GARSOE	69
MICHIGAN	2:10.12	MINNESOTA	2:20.90	ROBERT PROEBSTING	55	JEAN TROY	66
GLENN COLE	33	STEVEN NELSON	40	JOHN RICHARDS	71	CHARLES BREEDING	77
KRISTIN NELSEN	27	KATHLEE DANFORD	49	ST. LOUIS	2:38.10	NEW ENGLAND	3:13.98
PATRICIA ROHNER	33	SARAH EICHER	37	ART KELLEY	67	JAMES EDWARDS	70
BOB JENNINGS	27	PAUL PERRY	35	CAROL TAYLOR	64	TED HAARTZ	65
VIRGINIA	2:10.76			ARDETH MUELLER	52	MARDIE BROWN	76
JAMES WOLFFE	25	200-239		ROBERT BLAKE	68	BILLIE BURRILL	72
PATRIC CHAPPELL	39	R:LOS ALTOS	92 2:14.58	CONNECTICUT	2:39.67	SAN MATEO	3:18.33
MARIA VELIKONJA	35	EDWARD CAZALET		ROBERT KNAPP	76	ZADA TAFT	74
JIM MILLER	43	CAROLYN BOAK		MARGIT JEBE	55	BOB CUNNINGHAM	65
ST. PETE	2:11.23	ROBERT PROEBSTING		DAVE SAMUELSON	40	RAY TAFT	74
TERRI HOPPENRATH	36	ARLELE PROEBSTING		DOROTHY DONNELLY	71	AUDREY ETIENNE	76
ELAINE BROMWICH	50	LOS ALTOS	2:15.52	ST. PETE	2:51.23	HOLMES LUMBER	3:19.03
WILLIAM SPECHT	35	EDWARD CAZALET	51	PAUL HUTINGER	68	WILLIAM GRANT	79
WILLIAM HEMPEL	36	CAROLYN BOAK	48	J.G. PIPER	56	BRUD CLEVELAND	75
HOLMES LUMBER	2:11.93	ARLENE PROEBSTING	56	HAROLD FERRIS	62	SYLVIA EISELE	63
JACK MCKEAN	28	KRISTINA KING	45	KATE KNIGHT-PERRY	58	FLORENCE CARR	67
KATHY STEELE	29	MINNESOTA	2:23.04	COLONIALS-1776	2:57.75	WALNUT CREEK	3:24.86
WALTER STEELE	29	MARK LITMAN	48	JEANNE MERRYMAN	70	DON BROWN	60
GINA AGUILAR	34	VIRGIL LUKEN	50	NORMAN GARSOE	69	JEAN DURSTON	79
		MARSHA SOUCHERAY	52	ROGER FRANKS	66	JOE HOWELL	70
		SUSAN SCHULTZ	53	ANN DALLAM	62	ERNIE SMITH	72
160-199		DC MASTERS	2:23.26	LINCOLN	2:57.79	DC MASTERS	3:25.07
R:SPM	92 2:02.86	JOHN CALVERT	47	EDWARD SHEA	78	ANNE WALKER	77
JUDY STEFANICK		JOANN LEILICH	54	CLARICE ROSSI	55	LEE BETTIS	55
ARTHUR HALTTUNEN		BRUCE FISHER	45	GERALD WILLIAMS	65	LORRAINE MURPHY	75
WILLIAM SPECHT		BARBARA ZAREMSKI	56	CYNTHIA JONES	43	FRANK MURPHY	75
ANNE PAGE		TAMALPAIS	2:25.70	WALNUT CREEK	3:02.12	HOLMES LUMBER	3:49.28
LOS ALTOS	2:08.68	RICHARD BURNS	50	STEVEN BREITER	37	FRANK TILLOTSON	78
AIMEE LEHR	26	GARY PARLAPIANO	46	JAE HOWELL	70	JOAN GLARATON	66
THOMAS BOAK	50	NANCY RIDOUT	51	MIKE MILLIMAN	58	CARL THORNBURG	81
KEEFE LODWIG	50	CHARLOTTE JENKINS	54	SALLY JOY	76	MARJORIE NEWMAN	69
ARLENE PROEBSTING		WALNUT CREEK	2:29.58	EMPIRE STATE	3:03.67		
LINCOLN	2:10.22	DON BROWN	60	JACK KEEFE	78	320-359	
KURT MOEHLMANN	41	JOAN ALEXANDER	61	WALTER LYNCH	72	R:D C MASTERS	93 4:25.47
KARL PAULIUS	30	JAMES KING	46	CHRISTIN ZIMMET	45	ANNE WALKER	
IRENE DAVID	49	SUZANNE HEIM	35	ANN JOHNSEN	57	BERT KASSELL	
C STONESIFER	40	LINCOLN	2:31.85	SAN DIEGO	3:04.79	ELSA MATTILA	
LAKESIDE	2:15.16	GEORGE GANDSEY	69	BOBBI TURCOTTE	66	DAVID MCAFFEE	
WILLIAM TINGLEY	43	DIETER KULICKE	52	PETER RIDDLE	55	DC MASTERS	4:25.47
A.WRIGHT BELKNAP	42	AUDREY COLASANTI	34	BETSY JORDAN	56	ANNE WALKER	77
JOHN NOLAN	44	LYNNETTE GAZA	49	JERRY SIEFERT	75	BERT KASSELL	80
MARY CHRIS CURL	36	ST. LOUIS	2:32.34	VIRGINIA	3:05.36	ELSA MATTILA	83
ST. PETE	2:15.67	CATHERINE KOHN	40	BETSY DURRANT	51	DAVID MCAFFEE	83
JUDY STEFANICK	42	REGAN KENNER	69	CHUCK WILMORE	58	*****	
GARY TRIMBLE	50	SCOTT HALLIBURTON	31	WILLIAM IRWIN	65	RELAYS: MIXED 400 M. FREE	
ANNE PAGE	45	WILLIAM CANNON	63	E WOLENBERG	72	*****	
TIM MCGINNIS	35	OREGON	2:33.32			76 - 99	
MINNESOTA	2:16.83	GINGER PIERSON	47	280-319		R:DAVIS AQUATIC	93 4:22.10
PAUL WINDRATH	39	BEVE L'ESPERANCE	61	R:O*H*I*O	93 2:56.33	CHRIS MORGAN	
MARY WINDRATH	40	STEVE JOHNSON	45	BETTY RUSS		MICHAEL COLLINS	
ROBIN KLEFFMAN	45	RICHARD BOYD	50	LILLY KRON		CHRIS SCHULTZ	
VICKY SANDBERG	36	MISSOURI VALLEY	2:36.47	PAUL KRUP		JENNIFER NORRIS	
WALNUT CREEK	2:18.52	MARY ANDERSON	51	DEXTER WOODFORD		DAVIS AQUATIC	4:22.10
BARBARA JORDAN	56	LONDON KIRCHNER	55	O*H*I*O	2:56.33	CHRIS MORGAN	22
ANNE BERBERI	37	LINDA MCHENRY	46	BETTY RUSS	66	MICHAEL COLLINS-	27
KERRY O'BRIEN	36	MIKE CALWELL	52	LILLY KRON	61	CHRIS SCHULTZ	22
CARY KENT	41	SAN DIEGO	2:36.57	PAUL KRUP	75	JENNIFER NORRIS-	26
GREATER INDIANA	2:18.97	BETSY JORDAN	56	DEXTER WOODFORD	79		
NAN WITCHER	38	ERIC NEILSEN	27	LINCOLN	2:58.51	100-119	
JERRY MYERS	55	DON HUBBARD	66	DAVE MALBROUGH	80	R:WALNUT CREEK	93 4:07.44
STEPHANI PORTER	31	JEANNE LITTLE	56	BETTY BENNETT	50	JEFF RODGERS	
JOEL STAGER	40						

TOP TEN

Long Course Meters

LEE BETTIS	55	R:SANTA CRUZ	89	9:17.66	MAUREEN PERRY	34
JOANN LEILICH	54	MIKE BENNETT			BERNIE BERGMAN	76
ROBERT BENNETT	50	LISA MCDAVID			MICHIGAN	13:09.31
ANN LYTTLE	45	MARGUERITE MEYER			DONALD KROEGER	49
LAKESIDE	5:56.48	JON MELTON			FREDERICKA RAPP	49
MARY MULLENS	62	VENICE		10:02.13	P.STRICKLAND	52
JOHN NOLAN	44	DAVID KASTIGAR		29	THOMAS MOYER	45
CAROL FERGUSON	61	LARA FOREMAN		24	GOLD COAST	14:41.70
RUSSELL WILLIAMS	33	NELL REGAN		23	MURIEL BERGMAN	75
HEARTLAND	6:22.90	BRUCE STAHL		35	LISA SHOPE	41
M.VANDERHAUG	51				EDUARDO NOGUIERA	26
GENE SAPPER	63	120-159			JOE HUTTO	34
DAVID SZUCH	50	R:HEARTLAND	93	9:10.24	GOLD COAST	16:00.51
LYNN MACDONALD	38	LEE MENCH			SUSAN LUDWIG	35
SAN DIEGO	6:34.90	LARRY TAGGESELL			SHEP RICHARD	50
BETSY JORDAN	56	VICKY DAVIDSON			JOE BORDEN	49
DONALD BAKER	62	PATTY STARKS			M.SANFORD-CHRLTN	50
GORDON GILLIN	62	HEARTLAND		9:10.24		
VIRGINIA BURNS	42	LEE MENCH		40	200-239	
		LARRY TAGGESELL		40	R:SAN DIEGO	93 10:55.90
240-279		VICKY DAVIDSON		28	BILL EARLEY	
R:WALNUT CREEK	92	PATTY STARKS		33	BETSY JORDAN	
DON BROWN		SAN DIEGO		9:10.51	KARLYN PIPES	
ANN PISCIOTTA		BARBARA DUNBAR		44	DONALD BAKER	
STAN MORNER		ROBERT BENSON		36	SAN DIEGO	10:55.90
BETTY BARABASH		BETH KNIGHT		33	BILL EARLEY	56
SAN DIEGO	7:45.23	JEFFERY MILTON		37	BETSY JORDAN	56
BOBBI TURCOTTE	66	GOLD COAST		9:58.20	KARLYN PIPES	31
PETER RIDDLE	55	ROSAMARIA MEYER		31	DONALD BAKER	62
ADRIENNE PIPES	59	DEB LAKE		29	MICHIGAN	12:01.54
JERRY SIEFERT	75	DAVID OWENS		41	FREDERICKA RAPP	49
		MARK JONES		31	BEVERLY MYERS	58
280-319		SAN BERNARDINO		10:49.49	THOMAS MOYER	45
R:RINCONADA	92	MIKE MURPHY		32	DONALD KROEGER	49
PATSY WEISS		KATHERINE MOORE		21	HEARTLAND	12:35.00
ALDO DA ROSA		MARCIA LEWIS		31	DOUGLAS SELBY	48
SALLY SCHOLER		JOE ERICKSON		37	RON WILLIAMSON	54
HANK HEINEKEN		ORLANDO		11:00.69	DIANE MENDOZA	32
LONG BEACH	10:11.36	J.VAN DER MOLEN		25	NANCY REED	66
WOODY BOWERSOCK	80	JACQUIE NATION		31		
MADELEINE MILLER	82	R.ROBINSON		39	240-279	
MAURINE KORNFELD	71	L.MEISENHEIMER		35	R:LOS ALTOS	89 12:21.32
LOUIS GIBERSON	72	ALHAMBRA		12:02.08	BOB PROEBSTING	
GOLD COAST	11:44.32	JAIMI LUMBERT		34	DELLA SEHORN	
MURIEL BERGMAN	75	SCOTT DAVIS		33	BERNA BENNETT	
IRMGARD KANE	65	ELINOR CHARLTON		34	JACK MCCANN	
RICHARD KANE	82	TYRONE BROWN		29	NO RELAY TEAMS	
BERNIE BERGMAN	76	HEARTLAND		13:12.22		
		CHRISTINE BIBY		45	280-319	
320-359		JONI SAITO		29	R:SAN MATEO	89 14:26.78
R:D C MASTERS	93	CESAR ROMERO		32	AUDREY ETIENNE	
ANNE WALKER		DOUG SAPPER		29	FRED TAIOLI	
KELLEY LEMMON					ZADA TAFT	
ELSA MATTILA		160-199			RAY TAFT	
BERT KASSELL		R:SAN DIEGO	91	9:32.88	NO RELAY TEAMS	
DC MASTERS	8:52.61	CAMILLE THOMPSON				
ANNE WALKER	77	BARBARA DUNBAR				
KELLEY LEMMON	81	DARRELL SWENSON				
ELSA MATTILA	83	WILLIAM BEHUN				
BERT KASSELL	80	GOLD COAST		10:32.07		
*****		DAVID SCOTT		45		
RELAYS: MIXED 800 M. FREE		LIL HANAMEN		38		
*****		MARTY HENDRICK		35		
76 - 99		B.EDELMEIER		46		
R:SANTA CRUZ	89	HEARTLAND		12:53.60		
BOB SEIWERT		JERRY O'MARA		46		
LEA WATKINS		MOZE MOSSAY		39		
CATHY CONOVER		VIRGINIA BENDIK		40		
JIM HUDSON		M.VANDERHAUG		51		
NO RELAY TEAMS		GOLD COAST		13:03.27		
		FRED PERRY		34		
100-119		KAY JONES		27		

FINA WORLD RECORDS

SHORT COURSE METERS (as of 11-1-93)

WRL SCM RECORDS AS OF 11-01-93									
***** M E N *****					***** W O M E N *****				
***** 25-29 *****					***** 30-34 *****				
23.16	11-10-91	USA	ROBERT PEEL	50 M. FREE	LIZ FABRIZIO	USA	10-15-89	26.93	
51.62	10-18-92	GBR	ROLAND LEE	100 M. FREE	MONIQUE RODAHL	NZL	06-04-89	58.93	
1:53.82	10-18-92	GBR	ROLAND LEE	200 M. FREE	REBECCA WILLIAMS	NZL	10-21-90	2:05.80	
4:04.50	07-20-86	CAN	G WALBOURN	400 M. FREE	LYNN MARSHALL	CAN	- -91	4:25.94	
8:29.19	- -92	SWE	T.LENNARTSSON	800 M. FREE	DIANE GRANER	USA	12-09-90	9:18.99	
16:23.21	04-11-92	USA	ROB MACKLE	1500 M. FREE	KAREN BURTON	USA	12-14-91	17:30.18	
26.85	03-21-92	USA	MOOK RHODENBAUGH	50 M. BACK	DIANE GRANER	USA	10-15-89	30.63	
58.15	10-18-92	GBR	MARK MATTHEWS	100 M. BACK	DIANE GRANER	USA	10-15-89	1:04.66	
2:04.07	02-11-93	NZL	DARRYL FOLLOWS	200 M. BACK	J.DE ROVER	NED	- -92	2:17.86	
28.81	- -90	AUS	GUY FARROW	50 M. BRST	RIA WILLEMSE	NED	- -90	33.60	
1:04.49	- -91	NED	FRANK VIJUER	100 M. BRST	RIA WILLEMSE	NED	- -90	1:13.60	
2:24.68	10-15-89	USA	PETER MCCLAFFERTY	200 M. BRST	BEATE STEINHOF	GER	- -90	2:44.82	
25.77	10-15-89	USA	JAMES LILLEY	50 M. FLY	AGNETA ERIKSSON	SWE	- -92	29.48	
57.07	10-15-89	USA	BRAD WELLS	100 M. FLY	S MCDONALD	GBR	- -86	1:05.71	
2:07.65	- -90	GBR	P SHACKLEY	200 M. FLY	S. PALMER-WHITE	AUS	- -91	2:17.13	
57.70	- -90	AUS	GUY FARROW	100 M. I.M.	MONIQUE RODAHL	NZL	06-04-89	1:06.84	
2:10.85	- -91	GBR	ROLAND LEE	200 M. I.M.	DIANE GRANER	USA	10-15-89	2:24.07	
4:42.88	11-22-92	USA	DAVID SWENSON	400 M. I.M.	S. PALMER-WHITE	AUS	- -91	5:06.88	
***** M E N *****					***** W O M E N *****				
22.82	10-15-89	JPN	ROWDY GAINES	50 M. FREE	SANDY NEILSON	USA	05-10-87	26.55	
50.51	10-15-89	JPN	ROWDY GAINES	100 M. FREE	SANDY NEILSON	USA	06-18-88	57.35	
1:50.91	10-15-89	JPN	ROWDY GAINES	200 M. FREE	SANDY NEILSON	USA	05-10-87	2:06.83	
4:02.66	10-15-89	JPN	ROWDY GAINES	400 M. FREE	LYNN MARSHALL	CAN	10-05-92	4:30.59	
8:34.26	10-15-89	USA	DAN STEPHENSON	800 M. FREE	LYNN MARSHALL	CAN	- -91	9:09.90	
17:05.25	10-25-92	USA	STEVEN FISHER	1500 M. FREE	LYNN MARSHALL	CAN	10-05-92	17:41.61	
27.18	04-28-91	USA	J. CLAY BRITT	50 M. BACK	MICHELLE PEARSON	GBR	10-18-92	31.99	
58.12	04-28-91	USA	J. CLAY BRITT	100 M. BACK	M OLIVER-SEXSMITH	CAN	05-25-92	1:09.59	
2:11.19	11-22-92	USA	JAMES FOWLER	200 M. BACK	ZENA HERRMANN	USA	12-15-91	2:32.32	
29.62	04-17-93	USA	GREG RHODENBAUGH	50 M. BRST	DAGMAR HILBIG	GER	- -92	33.74	
1:04.33	04-17-93	USA	DAVID GUTHRIE	100 M. BRST	SHARRON DAVIES	GBR	11-14-92	1:15.39	
2:24.92	- -91	JPN	G. CHRISTIANSEN	200 M. BRST	ESTER ISEPPI	SUI	10-15-89	2:49.16	
25.06	04-09-89	USA	MICHAEL BOTTOM	50 M. FLY	SHARRON DAVIES	GBR	11-14-92	29.63	
56.43	04-09-89	USA	MICHAEL BOTTOM	100 M. FLY	REBECCA PERROTT	NZL	- -91	1:04.69	
2:13.62	12-11-88	USA	R MARK SCHUMAN	200 M. FLY	NEROLI NIXON	AUS	- -92	2:26.35	
59.95	04-26-92	USA	J. CLAY BRITT	100 M. I.M.	SANDY NEILSON	USA	05-18-88	1:07.78	
2:12.33	09-17-88	USA	TOBY WEISSERT	200 M. I.M.	SANDY NEILSON	USA	05-10-87	2:27.11	
4:44.78	12-13-92	USA	ALLAN JAEGER	400 M. I.M.	REBECCA PERROTT	NZL	10-26-91	5:13.69	
***** M E N *****					***** W O M E N *****				
23.98	10-15-89	USA	BILL VICKERY	50 M. FREE	S. NIELSON-BELL	USA	04-17-93	26.24	
53.94	10-15-89	USA	BILL VICKERY	100 M. FREE	S. NIELSON-BELL	USA	11-15-92	1:00.29	
1:59.38	10-15-89	USA	LARRY WOOD	200 M. FREE	JACKI HIRSTY	USA	10-15-89	2:12.69	
4:18.22	10-04-91	USA	ROB COPELAND	400 M. FREE	MARIA VELIKONJA	USA	03-27-93	4:46.93	
9:02.71	11-15-92	USA	SANDY MACDONALD	800 M. FREE	LAURA VAL	USA	05-31-87	9:46.95	
17:25.79	10-03-91	USA	ROB COPELAND	1500 M. FREE	LAURA VAL	USA	05-29-87	18:27.71	
27.54	10-10-93	USA	WILLIAM SPECHT	50 M. BACK	LAURA VAL	USA	10-06-91	32.50	
1:00.65	10-10-93	USA	WILLIAM SPECHT	100 M. BACK	PAT GILMORE	CAN	05-06-88	1:10.47	
2:10.01	10-10-93	USA	WILLIAM SPECHT	200 M. BACK	PAT GILMORE	CAN	05-16-88	2:34.09	
30.10	04-18-93	GER	GLEN CHRISTIANSEN	50 M. BRST	LESLIE OSBORNE	USA	10-15-89	34.63	
1:08.30	- -90	GER	GERD KRUGER	100 M. BRST	LESLIE OSBORNE	USA	10-15-89	1:16.70	
2:28.35	10-15-89	USA	GREG HARRISON	200 M. BRST	LESLIE OSBORNE	USA	10-15-89	2:50.93	
25.89	10-10-93	USA	WILLIAM SPECHT	50 M. FLY	LAURA VAL	USA	10-06-91	30.05	
57.02	10-10-93	USA	WILLIAM SPECHT	100 M. FLY	MARIA VELIKONJA	USA	03-27-93	1:07.28	
2:06.97	10-10-93	USA	WILLIAM SPECHT	200 M. FLY	LAURA VAL	USA	10-06-91	2:28.96	
1:00.79	03-21-92	USA	RICHARD HESS	100 M. I.M.	S. NIELSON-BELL	USA	03-21-92	1:08.15	
2:15.67	10-15-89	USA	CLAY EVANS	200 M. I.M.	S. NIELSON-BELL	USA	11-15-92	2:31.39	
4:53.16	10-15-89	USA	CLAY EVANS	400 M. I.M.	KAREN FARNSWORTH	USA	10-27-91	5:30.35	
***** M E N *****					***** W O M E N *****				
24.81	04-17-93	USA	JERRY HEIDENREICH	50 M. FREE	LAURA VAL	USA	09-12-92	28.25	
55.02	10-10-93	USA	C MILTENBERGER	100 M. FREE	LAURA VAL	USA	09-12-92	1:01.15	
1:59.27	11-15-92	USA	TIMOTHY BRODERICK	200 M. FREE	LAURA VAL	USA	11-15-92	2:14.32	
4:18.45	10-15-89	USA	KEVIN POLANSKY	400 M. FREE	BARBARA DUNBAR	USA	10-17-92	4:50.68	
9:01.20	10-15-89	USA	KEVIN POLANSKY	800 M. FREE	BARBARA DUNBAR	USA	02-10-91	10:04.16	
17:38.17	05-31-87	USA	DAVID GRAY	1500 M. FREE	BARBARA DUNBAR	USA	02-04-90	19:00.81	
28.93	10-06-91	USA	JERRY HEIDENREICH	50 M. BACK	S. PLATT-ROGERS	GBR	- -91	33.85	
1:04.14	05-09-93	GBR	EDDIE RIACH	100 M. BACK	LAURA VAL	USA	11-15-92	1:10.94	
2:22.17	10-15-89	USA	TOD SPIEKER	200 M. BACK	LAURA VAL	USA	11-15-92	2:38.40	
30.80	10-10-93	USA	C MILTENBERGER	50 M. BRST	GILLIAN CACKETT	GBR	10-18-92	37.64	
1:07.98	10-10-93	USA	C MILTENBERGER	100 M. BRST	GAYLE BENTY	USA	11-15-92	1:22.19	
2:31.37	01-23-93	USA	GREGORY HARRISON	200 M. BRST	GAYLE BENTY	USA	11-15-92	2:54.12	
26.66	04-17-93	USA	JERRY HEIDENREICH	50 M. FLY	LAURA VAL	USA	09-12-92	30.18	
1:00.79	10-15-89	USA	ANDREW MCPHERSON	100 M. FLY	LAURA VAL	USA	09-12-92	1:07.59	
2:16.15	10-15-89	USA	BOO GALLAS	200 M. FLY	BARBARA DUNBAR	USA	10-29-89	2:32.19	
1:02.30	10-15-89	USA	RIC COOLEY	100 M. I.M.	LAURA VAL	USA	09-12-92	1:11.65	
2:18.73	10-15-89	USA	JOHN CALVERT	200 M. I.M.	LAURA VAL	USA	11-15-92	2:33.89	
5:00.76	10-15-89	USA	JOHN CALVERT	400 M. I.M.	LAURA VAL	USA	11-15-92	5:32.53	

FINA WORLD RECORDS

SHORT COURSE METERS (as of 11-1-93)

***** M E N *****				***** 45-49 *****				***** W O M E N *****			
25.08	03-07-93	USA	RICHARD ABRAHAMS	50	M. FREE	SUSAN SHRIMPTON	GBR	10-18-92	29.73		
56.45	11-15-92	USA	ANDREW MCPHERSON	100	M. FREE	SUSAN SHRIMPTON	GBR	10-18-92	1:05.20		
2:05.81	- -88	USA	ED CAZALET	200	M. FREE	ARDETH MUELLER	USA	12-12-87	2:28.69		
4:29.82	- -91	BAR	ANGUS EDGHILL	400	M. FREE	SANDRA O'NEIL	GBR	10-18-92	5:16.35		
9:26.18	- -92	BAR	ANGUS EDGHILL	800	M. FREE	SANDRA O'NEIL	GBR	10-18-92	10:51.84		
18:10.24	- -91	BAR	ANGUS EDGHILL	1500	M. FREE	SANDRA O'NEIL	GBR	03-27-93	21:20.47		
29.33	03-12-89	USA	ROBERT SMITH	50	M. BACK	SATOKO TAKEUJI	JPN	- -88	35.43		
1:05.31	03-12-89	USA	ROBERT SMITH	100	M. BACK	SATOKO TAKEUJI	JPN	- -88	1:17.13		
2:24.39	12-13-92	USA	TIM BIRNIE	200	M. BACK	SANDRA O'NEIL	GBR	03-27-93	2:48.85		
31.95	- -91	NED	K WITTENHOUT	50	M. BRST	ELAINE BROMWICH	USA	12-09-90	38.67		
1:10.41	12-13-92	USA	ROBERT STRAND	100	M. BRST	CAROLYN BOAK	USA	11-15-92	1:23.49		
2:35.71	12-13-92	USA	ROBERT STRAND	200	M. BRST	GINGER PIERSON	USA	04-21-91	3:04.75		
27.08	04-17-93	USA	DAN THOMPSON	50	M. FLY	JUDY WILSON	GBR	05-03-92	32.97		
1:03.36	03-07-93	USA	RICHARD ABRAHAMS	100	M. FLY	JUDY WILSON	GBR	10-18-92	1:14.85		
2:25.95	11-15-92	USA	ANDREW MCPHERSON	200	M. FLY	ARDETH MUELLER	USA	12-12-87	2:37.88		
1:05.45	11-15-92	USA	ROBERT STRAND	100	M. I.M.	ARDETH MUELLER	USA	10-03-87	1:14.41		
2:24.45	10-27-91	USA	JOHN CALVERT	200	M. I.M.	ARDETH MUELLER	USA	10-03-87	2:42.88		
5:12.41	05-23-93	RUS	NIKOLAEV JURII	400	M. I.M.	ARDETH MUELLER	USA	10-03-87	5:55.35		
***** M E N *****				***** 50-54 *****				***** W O M E N *****			
26.35	11-06-88	USA	JEFF FARRELL	50	M. FREE	NANCY RIDOUT	USA	09-12-92	30.48		
59.21	- -90	SWE	PETER BERGENGREN	100	M. FREE	ARDETH MUELLER	USA	10-06-91	1:06.41		
2:12.18	09-12-92	USA	ED CAZALET	200	M. FREE	ARDETH MUELLER	USA	12-07-91	2:27.95		
4:40.16	11-15-92	USA	ED CAZALET	400	M. FREE	ARDETH MUELLER	USA	10-06-91	5:12.43		
9:49.95	11-15-92	USA	ED CAZALET	800	M. FREE	NANCY RIDOUT	USA	11-15-92	11:20.21		
19:04.02	- -92	GBR	MIKE WAKE	1500	M. FREE	LAVELLE STOINOFF	USA	02-01-87	21:44.35		
31.42	10-15-89	USA	JOHN SMITH	50	M. BACK	SATOKO TAKEUJI	JPN	05-24-92	35.96		
1:09.38	10-20-90	NZL	BARRY YOUNG	100	M. BACK	SATOKO TAKEUJI	JPN	05-16-93	1:19.17		
2:30.21	10-21-90	NZL	BARRY YOUNG	200	M. BACK	ARDETH MUELLER	USA	12-07-91	2:48.88		
33.09	- -90	JPN	HIROSHI KOTEGAWA	50	M. BRST	ERNA LOSKAMP	NED	- -92	38.82		
1:14.72	10-15-89	USA	DRURY GALLAGHER	100	M. BRST	ERNA LOSKAMP	NED	- -92	1:25.73		
2:45.11	10-15-89	USA	DRURY GALLAGHER	200	M. BRST	ERNA LOSKAMP	NED	- -92	3:08.87		
28.65	05-16-93	JPN	KOJI IWAMOTO	50	M. FLY	ERNA LOSKAMP	NED	- -92	35.23		
1:05.10	05-16-93	JPN	KOJI IWAMOTO	100	M. FLY	ARDETH MUELLER	USA	10-06-91	1:12.66		
2:29.99	01-15-93	JPN	KOJI IWAMOTO	200	M. FLY	SPERRY RADEMAKER	USA	10-15-89	3:11.83		
1:07.60	10-15-89	USA	DRURY GALLAGHER	100	M. I.M.	ARDETH MUELLER	USA	12-07-91	1:18.05		
2:31.52	10-15-89	USA	DRURY GALLAGHER	200	M. I.M.	YOSHIKO OSAKI	JPN	- -91	2:57.65		
5:20.81	10-15-89	USA	DRURY GALLAGHER	400	M. I.M.	ARDETH MUELLER	USA	12-07-91	5:56.24		
***** M E N *****				***** 55-59 *****				***** W O M E N *****			
26.60	10-15-89	USA	DONALD HILL	50	M. FREE	JAYNE BRUNER	USA	10-15-89	31.83		
1:00.08	10-15-89	USA	DONALD HILL	100	M. FREE	JAYNE BRUNER	USA	10-15-89	1:11.63		
2:17.95	02-07-93	JPN	KAZUYA NISHINO	200	M. FREE	LAVELLE STOINOFF	USA	03-12-89	2:40.27		
4:59.35	05-10-92	JPN	KAZUYA NISHINO	400	M. FREE	LAVELLE STOINOFF	USA	03-12-89	5:34.32		
10:35.62	10-25-87	USA	GRAHAM JOHNSTON	800	M. FREE	LAVELLE STOINOFF	USA	03-12-89	11:29.99		
20:03.24	12-09-90	USA	BURWELL JONES	1500	M. FREE	LAVELLE STOINOFF	USA	03-12-89	21:35.84		
32.43	10-04-92	GBR	GRAHAM SYKES	50	M. BACK	BETSY JORDAN	USA	04-11-92	37.92		
1:12.17	10-15-89	USA	YOSHI OYAKAWA	100	M. BACK	BETSY JORDAN	USA	06-13-92	1:21.90		
2:41.11	11-15-89	USA	JACK BEATTIE	200	M. BACK	BETSY JORDAN	USA	10-17-92	3:00.66		
33.17	05-09-93	JPN	HIROSHI KOTEGAWA	50	M. BRST	JAYNE BRUNER	USA	11-10-91	40.69		
1:16.32	06-04-88	USA	MANUEL SANGUILY	100	M. BRST	FLORA CONNOLLY	GBR	- -90	1:28.13		
2:51.47	10-15-89	USA	MANUEL SANGUILY	200	M. BRST	FLORA CONNOLLY	GBR	- -90	3:12.85		
30.15	09-16-90	USA	ROBERT BAILIE	50	M. FLY	BETSY JORDAN	USA	10-17-92	37.50		
1:13.47	11-04-90	USA	WALLY DOBLER	100	M. FLY	YOSHIKO OSAKI	JPN	04-29-93	1:26.31		
2:53.71	10-15-89	USA	MANUEL SANGUILY	200	M. FLY	FLORA CONNOLLY	GBR	- -90	3:11.42		
1:12.67	12-10-89	USA	BURWELL JONES	100	M. I.M.	YOSHIKO OSAKI	JPN	06-27-93	1:22.29		
2:41.86	12-09-90	USA	BURWELL JONES	200	M. I.M.	YOSHIKO OSAKI	JPN	05-16-93	2:57.53		
5:54.37	12-10-89	USA	BURWELL JONES	400	M. I.M.	FLORA CONNOLLY	GBR	- -90	6:36.03		
***** M E N *****				***** 60-64 *****				***** W O M E N *****			
28.30	- -91	JPN	S TAMAMOTO	50	M. FREE	JANE ASHER	GBR	- -91	33.54		
1:05.52	07-15-90	USA	CHARLES BALDWIN	100	M. FREE	JANE ASHER	GBR	- -91	1:13.68		
2:21.77	08-11-91	USA	GRAHAM JOHNSTON	200	M. FREE	LAVELLE STOINOFF	USA	03-14-93	2:39.93		
5:02.20	07-18-93	USA	GRAHAM JOHNSTON	400	M. FREE	LAVELLE STOINOFF	USA	03-14-93	5:38.06		
10:41.44	06-27-93	USA	GRAHAM JOHNSTON	800	M. FREE	LAVELLE STOINOFF	USA	03-14-93	11:30.55		
20:12.52	06-27-93	USA	GRAHAM JOHNSTON	1500	M. FREE	CLARA WALKER	USA	04-21-90	23:28.15		
34.81	10-19-86	USA	PAUL HUTINGER	50	M. BACK	CLARA WALKER	USA	10-15-89	39.60		
1:17.31	10-19-86	USA	PAUL HUTINGER	100	M. BACK	CLARA WALKER	USA	10-15-89	1:29.13		
2:48.78	03-28-92	AUS	BOB BARRY	200	M. BACK	DORIS STEADMAN	USA	12-10-88	3:16.14		
37.29	04-17-93	USA	HARRY HUNSICKER	50	M. BRST	EDITH BOEHM	GER	- -90	42.02		
1:23.19	10-15-89	USA	DONALD VANROSSEN	100	M. BRST	FLORA CONNOLLY	GBR	05-09-93	1:34.05		
3:06.66	- -91	ITA	BRUNELLO GRAJA	200	M. BRST	JUDIE OLIVER	CAN	05-24-92	3:29.39		
31.66	05-09-93	JPN	HITOSHI KATO	50	M. FLY	JANE ASHER	GBR	- -91	38.40		
1:16.56	- -86	GBR	JACK HALE	100	M. FLY	JUDIE OLIVER	CAN	05-24-92	1:31.43		
3:00.48	04-17-93	USA	HARRY HUNSICKER	200	M. FLY	JUDIE OLIVER	CAN	05-23-92	3:21.73		
1:15.84	- -91	JPN	HITOSHI KATO	100	M. I.M.	CLARA WALKER	USA	10-15-89	1:27.50		
2:46.69	08-11-91	USA	GRAHAM JOHNSTON	200	M. I.M.	CLARA WALKER	USA	06-24-90	3:14.28		
6:02.73	07-18-93	USA	GRAHAM JOHNSTON	400	M. I.M.	JUDIE OLIVER	CAN	05-25-92	6:50.55		

FINA WORLD RECORDS

SHORT COURSE METERS (as of 11-1-93)

***** M E N *****		***** 65-69 *****		***** W O M E N *****	
29.63	11-04-90	USA	FRANK PIEMME	50 M. FREE	ODETTE LUSIEN FRA 06-26-93 34.38
1:07.13	12-09-90	USA	FRANK PIEMME	100 M. FREE	CLARA WALKER USA 12-08-91 1:20.80
2:36.10	12-09-90	USA	FRANK PIEMME	200 M. FREE	M CUNNINGHAM AUS - -90 3:02.54
5:37.93	10-06-91	USA	ED KERSWILL	400 M. FREE	CLARA WALKER USA 12-13-92 6:13.42
11:51.42	09-12-92	USA	ED KERSWILL	800 M. FREE	CLARA WALKER USA 12-13-92 12:35.26
22:19.37	11-22-92	USA	FRANK PIEMME	1500 M. FREE	CLARA WALKER USA 12-13-92 23:38.44
35.61	10-10-93	USA	PAUL HUTINGER	50 M. BACK	DORIS STEADMAN USA 10-15-89 40.48
1:19.68	10-10-93	USA	PAUL HUTINGER	100 M. BACK	DORIS STEADMAN USA 10-15-89 1:30.41
2:55.83	10-25-92	USA	ROGER FRANKS	200 M. BACK	DORIS STEADMAN USA 10-15-89 3:15.72
38.48	11-10-91	USA	JOSEPH KURTZMAN	50 M. BRST	BETTY CHRISTIAN USA 11-19-89 47.39
1:27.85	- -90	GER	KARL HEINZ KNOPS	100 M. BRST	L BURG-BONNIER NED - -90 1:43.57
3:15.28	- -91	GER	KARL HEINZ KNOPS	200 M. BRST	MARGARET EVANS GBR - -90 3:46.02
33.63	12-09-90	USA	FRANK PIEMME	50 M. FLY	M CUNNINGHAM AUS - -90 44.27
1:21.66	11-10-91	USA	JOSEPH KURTZMAN	100 M. FLY	JUNE KRAUSER USA 10-06-91 1:38.74
3:13.03	11-10-91	USA	JOSEPH KURTZMAN	200 M. FLY	JUNE KRAUSER USA 10-10-93 3:36.36
1:19.90	10-10-93	USA	PAUL HUTINGER	100 M. I.M.	ODETTE LUSIEN FRA 04-17-93 1:35.76
3:03.80	12-09-90	USA	FRANK PIEMME	200 M. I.M.	CLARA WALKER USA 12-08-91 3:18.77
6:42.13	12-09-90	USA	FRANK PIEMME	400 M. I.M.	JUNE KRAUSER USA 10-10-93 7:19.63
***** M E N *****		***** 70-74 *****		***** W O M E N *****	
31.01	11-28-92	GBR	JACK HALE	50 M. FREE	DOREEN COPE GBR 10-18-92 38.95
1:12.57	05-25-92	USA	JOHN RICHARDS	100 M. FREE	MARGERY MEYER USA 11-15-92 1:29.76
2:46.86	07-07-89	USA	RAY TAFT	200 M. FREE	MARGERY MEYER USA 11-15-92 3:18.51
5:56.06	07-14-89	USA	RAY TAFT	400 M. FREE	MARGERY MEYER USA 11-15-92 6:54.54
12:15.49	07-21-89	USA	RAY TAFT	800 M. FREE	MARGERY MEYER USA 11-15-92 14:29.66
23:59.12	04-29-88	USA	ALDO DA ROSA	1500 M. FREE	RITA SIMONTON USA 12-29-90 28:29.85
36.97	11-28-92	GBR	JACK HALE	50 M. BACK	WILLY VAN RYSEL GBR 12-13-87 45.08
1:24.30	10-15-89	USA	RAY TAFT	100 M. BACK	WILLY VAN RYSEL GBR 12-13-87 1:44.02
3:07.57	10-15-89	USA	RAY TAFT	200 M. BACK	WILLY VAN RYSEL GBR - -90 3:53.86
40.02	- -90	GER	WALTER MINNICH	50 M. BRST	INGEBORG FRITZE GER - -92 50.53
1:32.13	04-30-88	USA	ALDO DA ROSA	100 M. BRST	INGEBORG FRITZE GER - -91 1:54.84
3:24.66	05-01-88	USA	ALDO DA ROSA	200 M. BRST	MICHIKO HAMURO JPN - -90 4:09.41
35.35	11-28-92	GBR	JACK HALE	50 M. FLY	CATHERINE KERR CAN - -91 48.27
1:27.28	10-18-92	GBR	JACK HALE	100 M. FLY	GERTRUD ZINT USA 12-10-88 2:04.25
3:31.97	10-15-89	USA	ANTON CERER	200 M. FLY	MAXINE MERLINO USA 11-02-86 4:36.96
1:21.87	10-15-89	USA	RAY TAFT	100 M. I.M.	CATHERINE KERR CAN - -91 1:43.67
3:08.13	10-15-89	USA	RAY TAFT	200 M. I.M.	DOROTHY DONNELLY USA 06-06-92 4:01.01
6:50.27	10-15-89	USA	RAY TAFT	400 M. I.M.	RITA SIMONTON USA 11-19-88 8:34.79
***** M E N *****		***** 75-79 *****		***** W O M E N *****	
32.78	04-16-88	USA	KELLEY LEMMON	50 M. FREE	HATSUHO SUGAYA JPN - -91 42.88
1:15.94	04-16-88	USA	KELLEY LEMMON	100 M. FREE	V CHERRIMAN GBR - -85 1:45.53
2:59.20	10-15-89	USA	DEXTER WOODFORD	200 M. FREE	UME WADA JPN - -90 3:50.58
6:23.81	10-15-89	USA	DEXTER WOODFORD	400 M. FREE	V CHERRIMAN GBR 12-13-86 7:56.05
13:17.26	10-15-89	USA	DEXTER WOODFORD	800 M. FREE	AUDREY ETIENNE USA 09-12-92 16:20.48
25:15.05	- -91	CAN	NORBERT ARTUS	1500 M. FREE	KAY SCHIMPF USA 10-04-92 33:23.53
41.90	- -85	GER	R REINSTADTLER	50 M. BACK	WILLY VAN RYSEL GBR - -91 48.06
1:34.08	03-27-93	USA	NORRIS FLUKE	100 M. BACK	WILLY VAN RYSEL GBR - -91 1:48.13
3:27.82	11-10-91	USA	EDWARD SHEA	200 M. BACK	WILLY VAN RYSEL GBR - -91 4:00.43
42.85	01-10-93	USA	PAUL KRUP	50 M. BRST	GERTRUD ZINT USA 10-10-93 53.94
1:37.39	11-15-92	USA	ALDO DA ROSA	100 M. BRST	EMMI PAULI GER - -91 2:00.27
3:36.71	10-07-90	USA	DON MCCULLOUGH	200 M. BRST	GERTRUD ZINT USA 10-10-93 4:32.71
40.24	05-09-93	JPN	Y.MIYAMOTO	50 M. FLY	GERTRUD ZINT USA 10-10-93 56.53
1:36.80	11-15-92	USA	PAUL KRUP	100 M. FLY	MAXINE MERLINO USA 12-03-88 2:12.17
3:49.00	11-15-92	USA	PAUL KRUP	200 M. FLY	MAXINE MERLINO USA 10-30-88 4:48.50
1:32.84	11-15-92	USA	ALDO DA ROSA	100 M. I.M.	GERTRUD ZINT USA 10-10-93 1:58.06
3:22.14	11-15-92	USA	ALDO DA ROSA	200 M. I.M.	MAXINE MERLINO USA 10-30-88 4:17.89
7:20.86	11-15-92	USA	ALDO DA ROSA	400 M. I.M.	MAXINE MERLINO USA 02-07-88 9:07.66
***** M E N *****		***** 80-84 *****		***** W O M E N *****	
37.75	03-21-93	GER	R. REINSTADTLER	50 M. FREE	JULIA DOLCE USA 10-15-89 48.76
1:27.87	10-27-91	USA	GERSON SOBEL	100 M. FREE	V CHERRIMAN GBR 12-13-87 1:53.70
3:22.37	10-27-91	USA	GERSON SOBEL	200 M. FREE	JULIA DOLCE USA 10-15-89 4:17.73
7:05.20	12-17-86	AUS	F LOUGH	400 M. FREE	MAXINE MERLINO USA 12-13-92 8:48.24
15:07.97	10-31-92	USA	HERBERT HOWE	800 M. FREE	V CHERRIMAN GBR 12-13-87 18:11.90
29:58.32	12-21-86	USA	GUS LANGNER	1500 M. FREE	MAXINE MERLINO USA 11-22-92 35:07.91
45.93	01-30-93	GER	R. REINSTADTLER	50 M. BACK	MAXINE MERLINO USA 11-08-92 59.47
1:44.14	03-21-93	GER	R. REINSTADTLER	100 M. BACK	UME WADA JPN 05-17-92 2:06.95
4:01.12	02-01-87	USA	HERB EISENSCHMIDT	200 M. BACK	MAXINE MERLINO USA 10-11-92 4:38.53
45.52	- -91	GER	KARL WITTENBERG	50 M. BRST	MAXINE MERLINO USA 11-08-92 1:05.64
2:04.00	03-14-93	ITA	LOMBARDI ENZO	100 M. BRST	MAXINE MERLINO USA 10-11-92 2:21.80
4:42.90	02-21-93	ITA	LOMBARDI ENZO	200 M. BRST	MAXINE MERLINO USA 10-24-92 5:00.63
49.08	08-11-91	USA	JESSE COON	50 M. FLY	MAXINE MERLINO USA 11-08-92 1:05.04
2:07.29	08-11-91	USA	JESSE COON	100 M. FLY	MAXINE MERLINO USA 10-24-92 2:30.84
5:14.66	08-11-91	USA	JESSE COON	200 M. FLY	MAXINE MERLINO USA 10-17-92 5:22.65
1:49.06	03-13-93	GER	R.REINSTADTLER	100 M. I.M.	MAXINE MERLINO USA 11-08-92 2:07.52
4:22.04	04-29-92	JPN	RYOUSUKE YAMASAKI	200 M. I.M.	MAXINE MERLINO USA 10-24-92 4:45.93
9:25.63	09-11-88	USA	HERB EISENSCHMIDT	400 M. I.M.	MAXINE MERLINO USA 10-11-92 9:50.43

FINA WORLD RECORDS

SHORT COURSE METERS (as of 11-1-93)

***** M E N *****			85-89 *****			***** W O M E N *****		
44.61	10-15-89	USA	GUS LANGNER	50 M.	FREE	MARIAN MCKECHNIE	USA	10-15-89 1:03.78
1:41.46	10-15-89	USA	GUS LANGNER	100 M.	FREE	ANNA BAUSCHER	USA	10-15-89 3:01.15
3:48.20	10-15-89	USA	GUS LANGNER	200 M.	FREE	MARIAN MCKECHNIE	USA	10-15-89 5:33.83
7:54.24	12-10-88	USA	GUS LANGNER	400 M.	FREE			
16:53.90	12-10-88	USA	GUS LANGNER	800 M.	FREE	MARIAN MCKECHNIE	USA	10-15-89 24:05.34
32:20.20	12-11-88	USA	GUS LANGNER	1500 M.	FREE			
56.86	03-21-93	GER	RUDI SCHUBERT	50 M.	BACK	MARIAN MCKECHNIE	USA	10-15-89 1:13.57
2:13.02	12-07-91	USA	HERB EISENSCHMIDT	100 M.	BACK	ANNA BAUSCHER	USA	10-15-89 2:52.17
5:21.96	09-12-92	USA	JOE KAUFMAN	200 M.	BACK	MARIAN MCKECHNIE	USA	10-15-89 6:00.16
1:01.61	03-21-93	GER	RUDI SCHUBERT	50 M.	BRST	YOSHI KUCHIBA	JPN	05-23-93 1:25.54
2:31.20	10-15-89	USA	GUS LANGNER	100 M.	BRST	KATHERINE PELTON	USA	11-17-90 3:09.62
5:30.76	12-11-88	USA	GUS LANGNER	200 M.	BRST			
1:21.90	06-09-91	USA	ABE OLANOFF	50 M.	FLY	KATHERINE PELTON	USA	12-09-90 1:24.53
				100 M.	FLY	KATHERINE PELTON	USA	11-17-90 3:29.58
				200 M.	FLY	KATHERINE PELTON	USA	12-09-90 7:15.07
2:23.03	12-07-91	USA	HERB EISENSCHMIDT	100 M.	I.M.	KATHERINE PELTON	USA	11-04-90 3:00.23
5:02.31	12-07-91	USA	HERB EISENSCHMIDT	200 M.	I.M.	ANNA BAUSCHER	USA	10-15-89 9:49.36
10:47.13	12-07-91	USA	HERB EISENSCHMIDT	400 M.	I.M.	KATHERINE PELTON	USA	12-14-91 15:34.06
***** M E N *****			90 + *****			***** W O M E N *****		
50.57	- -90	AUS	L. SPARRIUS	50 M.	FREE	VERA FERNANCE	AUS	- -89 2:06.95
2:49.33	12-09-90	USA	PAUL SPANGLER	100 M.	FREE	VERA FERNANCE	AUS	- -89 4:23.67
5:51.45	12-09-90	USA	PAUL SPANGLER	200 M.	FREE			
11:09.76	12-08-89	USA	PAUL SPANGLER	400 M.	FREE			
				800 M.	FREE			
51:43.20	12-09-90	USA	PAUL SPANGLER	1500 M.	FREE			
1:29.99	04-02-89	USA	TOM LANE	50 M.	BACK	VERA FERNANCE	AUS	- -89 1:55.07
3:38.08	07-17-93	GBR	GEORGE ONION	100 M.	BACK	VERA FERNANCE	AUS	- -90 4:19.46
				200 M.	BACK			
1:50.16	04-02-89	USA	TOM LANE	50 M.	BRST	DORIS VENNING	NZL	- -91 1:49.01
				100 M.	BRST	DORIS VENNING	NZL	- -91 4:05.59
				200 M.	BRST			
				50 M.	FLY			
				100 M.	FLY			
				200 M.	FLY			
				100 M.	I.M.			
				200 M.	I.M.			
				400 M.	I.M.			

FINA WORLD RECORDS

SHORT COURSE METERS (as of 11-1-93)

WRL SCM RECORDS AS OF 11-01-93

***** RELAY 200 M. FREE - WOMEN *****			***** RELAY 200 M. MEDLEY - WOMEN *****				
100	+ ROCKY MTN-USA ELLEN ATKINSON KATHY GARNIER	03-07-93 SHELLE BOTTA DANA DUTCHER	1:54.54	100	+ SWISS COTT-GBR ALYSON JONES TAMSIN JAGGS	10-18-92 MICHELE PEARSON CAROLINE HORDEN	2:10.15
120	+ SWISS COTT-GBR MICHELE PEARSON CAROLINE HORDEN	10-18-92 TAMSIN JAGGS ALYSON JONES	1:55.08	120	+ SWISS COTT-GBR ALYSON JONES TAMSIN JAGGS	10-18-92 MICHELLE PEARSON CAROLINE HORDEN	2:10.84
160	+ DC MASTERS-USA SUSAN SKIFF JAYNE BRUNER	10-15-89 BARBARA ZAREMSKI JACKI HIRSTY	2:01.10	160	+ SG NEUKOLLN-GER S. FELGENTRAGER BRIGITTE MERTEN	11-03-90 MONIKA SENFTLEBEN RUTH STUBERT	2:18.65
200	+ TAMALPAIS-USA ANGELA KONIG SHERRY RADEMACHER	10-15-89 LAVERNE ADAMS NANCY RIDOUT	2:11.64	200	+ SG NEUKOLLN-GER SIEGRID KURTZ BRIGITTE MERTEN	11-10-91 MONIKA SENFTLEBEN MARGA SCHULZ	2:29.96
240	+ SOLK HELLAS-SWE KERSTIN GJORES MARIANNE GRANE	04-16-89 KRISTINA VADEM ANN-MARI GERMANDT	2:42.57	240	+ W COUNTY Y-USA REGAN KENNER ARDETH MUELLER	12-05-92 CAROL TAYLOR JEAN SCHNORBUS	2:52.00
280	+ HOLMES LMB-USA FLORENCE CARR JUNE REYNOLDS	10-10-93 GERTRUD ZINT JEAN BEERS	3:04.95	280	+ MANLY-AUS ELIZABETH WALLIS EILEEN PRICE	10-26-91 BETTY CALLAGHAN LILIAN JOHNSON	3:28.26
320	+			320	+		

***** RELAY 200 M. FREE - M E N *****			***** RELAY 200 M. MEDLEY - M E N *****				
100	+ B.COPTHALL-GBR MARK MATTHEWS JIM HOBSLEY	10-18-92 ANDY COTTER KEVIN FROST	1:35.91	100	+ B.COPTHALL-GBR ANDY COTTER MARK MATTHEWS	10-18-92 TIM HOBSLEY KEVIN FROST	1:48.16
120	+ BAYLOR/LSTAR RICHARD HESS M.RHODENBAUGH	03-21-92 DOUG MOYSE BOBBY PATTEN	1:37.89	120	+ GCWP-USA BRIAN GOODELL JAY HERSEY	10-15-89 SCOTT BECKER LYLE NALLI	1:50.73
160	+ SWAM-USA CHRIS MACCUDY JERRY HEIDENREICH	06-01-91 RIC NESBIT BRYAN AUSTIN	1:41.93	160	+ SWAM-USA CHRIS MACCUDY JERRY HEIDENREICH	06-01-91 RIC NESBIT BRYAN AUSTIN	1:55.51
200	+ LOS ALTOS-USA ROBERT PROEBSTING JOHN RICHARDS	10-15-89 EDWARD CAZALET DICK THOMAS	1:48.34	200	+ LOS ALTOS-USA DICK THOMAS ROBERT PROEBSTING	10-15-89 THOMAS BOAK JOHN RICHARDS	2:02.44
240	+ KOCHIKUUKO-JPN AKIKAZU TAKEMOTO TSUTAE IWAGO	02-07-93 AKIHIKO YABE NOBUMASA YAMASAKI	2:01.12	240	+ KOCHIKUUKO-JPN AKIHIKO YABE AKIKAZU TAKEMOTO	02-07-93 NOBUMASA YAMASAKI TSUTAE IWAGO	2:16.56
280	+ HELLAS-SWE ERIK KARLSSON OLLE NYMAN	03-27-88 NILS FERM ARNE JUTNER	2:11.80	280	+ SHUEI-JAPAN GORO TANIGUCHI KEIICHI TOKUNAGA	11-03-92 HIROMU YOSHIMOTO SHUICHI MURAYAMA	2:33.74
320	+ SC POSEIDON-GER KARL WITTENBERG RUDOLF SCHUBERT	11-08-92 FRITZ MONKE ARNOLD SCHUBLER	3:14.13	320	+ SC POSEIDON-GER RUDOLF SCHUBERT KARL WITTENBERG	11-08-92 ARNOLD SCHUBLER FRITZ MONKE	3:44.22

***** RELAY 200 M. FREE - MIXED *****			***** RELAY 200 M. MEDLEY - MIXED *****				
100	+ JARFALLA-SWE LESLIE OSBORNE GAIL MEAKINS	03-25-90 LARRY WOOD MEL NASH	1:46.19	100	+ LAKESIDE-USA WILLIAM TINGLEY MICHAEL HIGGS	10-15-89 GINA GATTI MELINDA SCHMITT	1:58.28
120	+ TEXAS-USA LESLIE OSBORNE GAIL MEAKINS	10-15-89 LARRY WOOD MEL NASH	1:48.60	120	+ LAKESIDE-USA WILLIAM TINGLEY MICHAEL HIGGS	10-15-89 GINA GATTI MELINDA SCHMITT	1:58.28
160	+ GIMSA-USA BILL VICKERY SALLY HASBROOK	10-15-89 SHARON WISE BILL WOOD	1:50.55	160	+ NEW ENGLAND-USA PENNY NOYES DAN ROGACKI	12-08-90 PHIL WHITTEN JACKI HIRSTY	2:07.34
200	+ LINCOLN-USA PAUL HUTINGER COLLEEN MALMEN	10-15-89 IRENE DAVID RAY PADOVAN	1:57.25	200	+ SG NENKOLLN-GER S. FELGENTRAGER MANFRED BROCK	11-08-92 MONIKA SENFTLEBEN B. SCHLURIKE	2:12.50
240	+ LOS ALTOS JOHN RICHARDS DELLA SEHORN	11-15-92 JAY CRADDOCK LAURA VAL	2:12.98	240	+ LOS ALTOS-USA DELLA SEHORN LAURA VAL	10-06-91 JOHN RICHARDS JAY CRADDOCK	2:32.46
280	+ CONNECTICUT JERRY JARROLD RUTH BILLARD	04-20-88 DOROTHY DONNELLY GUS LANGNER	2:38.80	280	+ MANLY-AUS LIZ WALLIS JAMIE JENKINS	10-11-92 JOHN VIDAL LILIAN JOHNSON	3:04.69
320	+ SAN MATEO MARGARET KEIL AUDREY ETIENNE	09-12-92 JOE KAUFMAN RAY TAFT	3:48.82	320	+ SAN MATEO-USA JOE KAUFMAN RAY TAFT	10-06-91 HILDA BUEL MARGARET KEIL	4:23.02

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-93)

WRL LCM RECORDS AS OF 11-01-93									
***** M E N *****					***** W O M E N *****				
***** 25-29 *****					***** 30-34 *****				
22.59	08-28-83	USA	KEVIN DEFORREST	50 M. FREE	SARA SHAND	USA	08-18-91	26.68	
51.25	08-14-81	USA	JIM MONTGOMERY	100 M. FREE	SARA SHAND	USA	08-18-91	58.23	
1:52.17	08-23-92	USA	JOHN KEPPELER	200 M. FREE	SARA SHAND	USA	07-30-89	2:07.11	
4:06.99	- -88	BRA	MARCUS MATTIOLI	400 M. FREE	SARA SHAND	USA	07-30-89	4:27.53	
8:36.83	08-23-92	USA	JEFF ERWIN	800 M. FREE	SARA SHAND	USA	07-30-89	9:18.43	
16:28.69	08-08-87	USA	CAMERON REID	1500 M. FREE	AMY POPE	USA	08-28-88	17:38.78	
27.39	- -86	BRA	R. ARANTES	50 M. BACK	DIANE GRANER	USA	08-20-89	30.80	
58.24	08-23-92	USA	JOHN KEPPELER	100 M. BACK	MONIQUE RODAHL	NZL	- -89	1:06.46	
2:07.57	08-23-92	USA	JOHN KEPPELER	200 M. BACK	DIANE GRANER	USA	08-20-89	2:19.97	
29.77	07-05-93	USA	DEWEY WYATT	50 M. BRST	S. SEMINATORE	ITA	- -89	32.01	
1:04.60	07-30-89	USA	DAVID LUNDBERG	100 M. BRST	S. SEMINATORE	ITA	- -90	1:16.05	
2:26.73	- -87	GER	T. LIGL	200 M. BRST	SHARON DAVIES	GBR	- -90	2:42.02	
25.16	-83-84	USA	DEFORREST/BOTTOM	50 M. FLY	ROSEMARIE SEAMAN	USA	08-24-87	28.79	
56.34	04-28-84	USA	MICHAEL BOTTOM	100 M. FLY	ROSEMARIE SEAMAN	USA	08-24-87	1:03.91	
2:05.25	- -84	TCH	M. LUKASEK	200 M. FLY	S PALMER-WHITE	AUS	- -92	2:18.69	
				100 M. I.M.					
2:09.21	08-08-87	USA	CAMERON REID	200 M. I.M.	SHARON DAVIES	GBR	- -90	2:22.00	
4:34.08	08-09-87	USA	CAMERON REID	400 M. I.M.	SHARON DAVIES	GBR	- -90	5:05.29	
***** M E N *****					***** W O M E N *****				
23.21	11-24-90	USA	A ROWDY GAINES	50 M. FREE	S. NEILSON-BELL	USA	08-28-88	26.37	
51.50	07-14-91	USA	A ROWDY GAINES	100 M. FREE	S. NEILSON-BELL	USA	10-15-88	58.09	
1:54.04	07-13-90	USA	A ROWDY GAINES	200 M. FREE	BETH KNIGHT	USA	08-20-89	2:07.84	
4:08.70	07-16-86	USA	JIM MONTGOMERY	400 M. FREE	BETH KNIGHT	USA	08-25-91	4:30.38	
8:46.99	07-16-86	USA	JIM MONTGOMERY	800 M. FREE	LYNN MARSHALL	CAN	07-05-92	9:16.82	
16:36.06	08-22-93	USA	BOBBY PATTEN	1500 M. FREE	KAREN BURTON	USA	08-23-92	17:40.50	
27.32	10-15-88	USA	DIX OZIER	50 M. BACK	BETH MAUER	USA	10-15-88	32.11	
1:00.03	08-22-93	USA	JAY YARID	100 M. BACK	ZENA HERRMANN	USA	07-26-92	1:09.07	
2:09.84	08-22-93	USA	JAY YARID	200 M. BACK	DAPHNE FUCHS	GER	04-25-93	2:23.47	
29.42	07-05-92	USA	DAVID GUTHRIE	50 M. BRST	M. MOHMANN	GBR	- -88	34.56	
1:05.65	08-18-91	USA	DAVID LUNDBERG	100 M. BRST	M. HOHMANN	GBR	- -88	1:14.52	
2:24.06	08-18-91	USA	DAVID LUNDBERG	200 M. BRST	DAGMAR HILBIG	GER	- -89	2:48.41	
25.31	10-15-88	USA	MIKE BOTTOM	50 M. FLY	BETH HARRELL	USA	07-05-92	29.22	
56.64	10-15-88	USA	MIKE BOTTOM	100 M. FLY	BETH HARRELL	USA	07-05-92	1:06.08	
2:07.43	08-22-93	USA	BOBBY PATTEN	200 M. FLY	KAREN BURTON	USA	08-23-92	2:27.54	
				100 M. I.M.					
2:09.69	08-18-91	USA	DAVID LUNDBURG	200 M. I.M.	S. NEILSON-BELL	USA	08-28-88	2:29.22	
4:40.44	07-05-92	USA	DAVID LUNDBERG	400 M. I.M.	KAREN BURTON	USA	08-23-92	5:11.39	
***** M E N *****					***** W O M E N *****				
***** 35-39 *****					***** 40-44 *****				
24.56	07-05-92	RUS	ALEXEI MARKOVSKY	50 M. FREE	S NEILSON-BELL	USA	08-22-93	26.89	
54.28	07-05-92	USA	JAMES MONTGOMERY	100 M. FREE	SUSAN HALFACRE	USA	08-28-88	1:00.25	
1:57.95	07-05-92	USA	DAN STEPHENSON	200 M. FREE	SUSAN HALFACRE	USA	08-28-88	2:09.33	
4:15.49	07-05-92	USA	DAN STEPHENSON	400 M. FREE	SUSAN HALFACRE	USA	08-28-88	4:33.08	
8:52.22	07-05-92	USA	DAN STEPHENSON	800 M. FREE	SUSAN HALFACRE	USA	08-28-88	9:24.54	
17:26.29	08-20-89	USA	JIM MCCONICA	1500 M. FREE	SUSAN PAMELIA	USA	08-24-87	18:12.11	
28.04	08-26-78	USA	THOMPSON MANN	50 M. BACK	LAURA VAL	USA	07-22-90	32.39	
1:00.95	08-22-93	USA	WILLIAM SPECHT	100 M. BACK	LAURA VAL	USA	07-30-89	1:10.94	
2:13.83	07-29-90	USA	TOM WOLF	200 M. BACK	KAREN FARNSWORTH	USA	07-05-92	2:35.44	
30.79	07-05-92	USA	DOUG MALCOLM	50 M. BRST	L WETZEL-OSBORNE	USA	08-20-89	34.41	
1:07.90	07-05-92	USA	MARK SCHUMAN	100 M. BRST	L WETZEL-OSBORNE	USA	08-20-90	1:17.44	
2:33.05	07-05-92	USA	MARK SCHUMAN	200 M. BRST	DAGMAR HILBIG	GER	09-12-93	2:51.75	
25.93	08-01-93	USA	MICHAEL BOTTOM	50 M. FLY	SUSAN HALFACRE	USA	08-28-88	29.27	
57.44	08-22-93	USA	WILLIAM SPECHT	100 M. FLY	SUSAN HALFACRE	USA	08-28-88	1:05.39	
2:09.18	07-05-92	USA	JAMES BELARDI	200 M. FLY	LAURA VAL	USA	07-30-89	2:26.38	
				100 M. I.M.					
2:16.49	07-05-92	USA	MARK SCHUMAN	200 M. I.M.	S NEILSON-BELL	USA	08-22-93	2:36.67	
4:55.13	07-05-92	USA	JAMES BELARDI	400 M. I.M.	KAREN FARNSWORTH	USA	07-05-92	5:34.47	
***** M E N *****					***** W O M E N *****				
24.93	07-05-92	USA	TOM WHATLEY	50 M. FREE	LAURA VAL	USA	08-23-92	28.05	
56.00	04-15-93	RSA	TERENCE DOWNES	100 M. FREE	LAURA VAL	USA	07-26-92	1:02.99	
2:03.28	08-22-93	USA	TIM BRODERICK	200 M. FREE	LAURA VAL	USA	07-25-93	2:17.01	
4:24.26	08-22-93	USA	TIM BRODERICK	400 M. FREE	BARBARA DUNBAR	USA	07-15-90	4:54.49	
9:19.37	08-20-90	USA	KEVIN POLANSKY	800 M. FREE	LAURA VAL	USA	07-25-93	9:57.69	
17:30.13	08-20-90	USA	KEVIN POLANSKY	1500 M. FREE	BARBARA DUNBAR	USA	08-30-92	19:00.40	
29.38	08-12-90	USA	PETER O'KEEFFE	50 M. BACK	LAURA VAL	USA	08-23-92	32.42	
1:03.39	08-11-90	USA	PETER O'KEEFFE	100 M. BACK	LAURA VAL	USA	08-23-92	1:11.03	
2:18.17	08-12-90	USA	PETER O'KEEFFE	200 M. BACK	B BAZUREAU	FRA	06-07-92	2:43.23	
30.82	07-05-92	USA	PEDER DAHLBERG	50 M. BRST	A. WRIGHT-BELKNAP	USA	08-23-92	37.02	
1:09.95	07-05-92	USA	PEDER DAHLBERG	100 M. BRST	DEBRA WALKER	USA	08-18-91	1:21.73	
2:32.17	08-23-92	USA	RICK COLELLA	200 M. BRST	GAYLE BENTY	USA	08-22-93	2:59.24	
27.04	08-18-91	USA	JOHN FOOTE	50 M. FLY	LAURA VAL	USA	08-23-92	30.13	
1:02.05	08-29-80	USA	LANCE LARSON	100 M. FLY	LAURA VAL	USA	08-23-92	1:06.27	
2:20.81	08-01-93	USA	EDWARD BROWN	200 M. FLY	BARBARA DUNBAR	USA	08-06-89	2:33.51	
				100 M. I.M.					
2:18.92	08-23-92	USA	RICK COLELLA	200 M. I.M.	LAURA VAL	USA	07-25-93	2:38.20	
4:57.46	08-23-92	USA	RICK COLELLA	400 M. I.M.	LAURA VAL	USA	07-25-93	5:39.70	

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-93)

***** M E N *****			45-49 *****			***** W O M E N *****		
25.30	08-09-90	USA	RICHARD ABRAHAMS	50 M.	FREE	ARDETH MUELLER	USA	08-08-87 29.08
57.04	08-23-92	USA	ANDREW MCPHERSON	100 M.	FREE	ARDETH MUELLER	USA	08-24-87 1:05.44
2:07.18	08-11-90	USA	TIM GARTON	200 M.	FREE	ARDETH MUELLER	USA	07-11-87 2:24.24
4:27.70	07-05-92	USA	BOB MOMSEN	400 M.	FREE	ARDETH MUELLER	USA	08-24-87 5:08.67
9:31.38	07-05-92	USA	BOB MOMSEN	800 M.	FREE	ARDETH MUELLER	USA	07-11-87 10:48.41
18:34.73	08-28-83	USA	ED HINSHAW	1500 M.	FREE	ARDETH MUELLER	USA	07-25-87 21:08.30
30.42	07-11-93	USA	HUGH WILDER	50 M.	BACK	SATOKO TAKEUJI	JPN	- -88 34.51
1:06.00	07-05-92	USA	HUGH WILDER	100 M.	BACK	SATOKO TAKEUJI	JPN	- -89 1:17.06
2:26.91	07-05-92	USA	JOHN CALVERT	200 M.	BACK	SANDRA O'NEIL	GBR	07-05-92 2:50.27
32.76	07-14-91	USA	RICK NESBIT	50 M.	BRST	J MACLEOD	AUS	- -91 37.77
1:12.98	07-05-92	USA	ROBERT STRAND	100 M.	BRST	CAROLYN BOAK	USA	08-23-92 1:26.28
2:41.88	08-02-92	USA	PETER WISNER	200 M.	BRST	CAROLYN BOAK	USA	07-05-92 3:09.19
27.12	08-23-92	USA	DAN THOMPSON	50 M.	FLY	ARDETH MUELLER	USA	08-24-87 30.74
1:02.84	08-23-92	USA	ANDREW MCPHERSON	100 M.	FLY	ARDETH MUELLER	USA	07-11-87 1:12.67
2:27.56	02-21-93	AUS	JOHN COVACEVICH	200 M.	FLY	ARDETH MUELLER	USA	08-24-87 2:44.10
				100 M.	I.M.			
2:24.39	07-05-92	USA	BOB MOMSEN	200 M.	I.M.	ARDETH MUELLER	USA	07-25-87 2:46.91
5:12.03	07-05-92	USA	BOB MOMSEN	400 M.	I.M.	ARDETH MUELLER	USA	07-26-87 5:54.98
***** M E N *****			50-54 *****			***** W O M E N *****		
26.16	08-28-83	USA	DON HILL	50 M.	FREE	ARDETH MUELLER	USA	08-22-93 29.33
58.62	08-22-93	USA	TIMOTHY GARTON	100 M.	FREE	ARDETH MUELLER	USA	07-05-92 1:07.42
2:09.74	08-22-93	USA	TIMOTHY GARTON	200 M.	FREE	ARDETH MUELLER	USA	08-22-93 2:29.22
4:43.72	11-15-92	USA	TIMOTHY GARTON	400 M.	FREE	ARDETH MUELLER	USA	08-18-91 5:16.62
9:55.59	11-15-92	USA	TIMOTHY GARTON	800 M.	FREE	ARDETH MUELLER	USA	08-18-91 10:58.47
18:49.43	06-06-93	GBR	SANDY GALLETLY	1500 M.	FREE	ARDETH MUELLER	USA	07-28-91 21:02.46
30.93	10-15-88	USA	JOHN SMITH	50 M.	BACK	SATOKO TAKEUJI	JPN	09-15-92 34.87
1:09.82	08-22-93	USA	RICHARD BURNS	100 M.	BACK	SATOKO TAKEUJI	JPN	07-18-93 1:19.45
2:32.81	08-22-93	USA	RICHARD BURNS	200 M.	BACK	SATOKO TAKEUJI	JPN	09-15-92 2:51.11
33.38	- -86	JPN	HIROSHI KOTEGAWA	50 M.	BRST	MONIKA SENFTLEBEN	GER	06-20-92 39.52
1:15.60	08-28-83	USA	MANUEL SANGUILY	100 M.	BRST	JOANN LEILICH	USA	08-20-90 1:28.83
2:51.68	- -92	AUS	MICHAEL MOLONEY	200 M.	BRST	DIANE FORD	GBR	09-12-93 3:13.64
28.19	08-22-93	USA	KEEFE LODWIG	50 M.	FLY	ARDETH MUELLER	USA	08-22-93 31.69
1:05.83	11-15-92	USA	TIMOTHY GARTON	100 M.	FLY	ARDETH MUELLER	USA	08-22-93 1:13.86
2:32.65	04-15-93	AUS	PETER GILMORE	200 M.	FLY	ARDETH MUELLER	USA	08-18-91 2:49.53
				100 M.	I.M.			
2:28.70	08-22-93	USA	TIMOTHY GARTON	200 M.	I.M.	ARDETH MUELLER	USA	07-21-91 2:54.57
5:25.32	08-22-93	USA	TIMOTHY GARTON	400 M.	I.M.	ARDETH MUELLER	USA	07-05-92 6:12.08
***** M E N *****			55-59 *****			***** W O M E N *****		
27.42	08-28-88	USA	MICHAEL MUCKLEROY	50 M.	FREE	JAYNE BRUNER	USA	08-04-91 32.59
1:01.95	08-18-91	USA	BOB BAILIE	100 M.	FREE	YOSHIKO OSAKI	JPN	07-18-93 1:11.01
2:21.33	07-05-92	JPN	KAZUYA NISHINO	200 M.	FREE	YOSHIKO OSAKI	JPN	07-18-93 2:36.58
4:58.41	06-25-88	USA	BURWELL JONES	400 M.	FREE	YOSHIKO OSAKI	JPN	07-18-93 5:26.57
10:27.08	06-26-88	USA	BURWELL JONES	800 M.	FREE	LAVELLE STOINOFF	USA	08-28-88 11:30.97
19:54.72	06-15-90	USA	BURWELL JONES	1500 M.	FREE	LAVELLE STOINOFF	USA	08-14-88 22:18.91
32.94	07-05-92	USA	YOSHI OYAWAKA	50 M.	BACK	BETSY JORDAN	USA	07-05-92 37.30
1:13.15	08-20-90	USA	JACK BEATTIE	100 M.	BACK	BETSY JORDAN	USA	07-05-92 1:21.42
2:42.37	10-15-88	USA	DON BROWN	200 M.	BACK	BETSY JORDAN	USA	07-05-92 2:59.18
33.03	07-18-93	JPN	HIROSHI KOTEGAWA	50 M.	BRST	JAYNE BRUNER	USA	08-18-91 39.91
1:17.87	08-28-88	USA	JOHN KORTHEUER	100 M.	BRST	JAYNE BRUNER	USA	08-23-92 1:29.88
2:56.20	- -90	GBR	THOMAS WALKER	200 M.	BRST	FLORA CONNOLLY	GBR	- -89 3:18.11
30.17	08-23-92	USA	ROBERT PROEBSTING	50 M.	FLY	GAIL ROPER	USA	08-20-85 35.29
1:10.28	08-23-92	USA	ROBERT PROEBSTING	100 M.	FLY	GAIL ROPER	USA	08-12-85 1:27.49
2:48.42	08-22-93	USA	ROBERT PROEBSTING	200 M.	FLY	FLORA CONNOLLY	GBR	- -89 3:17.68
				100 M.	I.M.			
2:43.57	08-12-90	USA	BURWELL JONES	200 M.	I.M.	JAYNE BRUNER	USA	08-23-92 3:06.11
5:53.53	08-09-90	USA	BURWELL JONES	400 M.	I.M.	GAIL ROPER	USA	08-12-85 6:42.05
***** M E N *****			60-64 *****			***** W O M E N *****		
27.86	07-05-92	USA	DONALD HILL	50 M.	FREE	JANE ASHER	GBR	07-05-92 33.60
1:02.80	07-05-92	USA	DONALD HILL	100 M.	FREE	JANE ASHER	GBR	- -91 1:14.25
2:23.11	07-05-92	USA	DONALD HILL	200 M.	FREE	LAVELLE STOINOFF	USA	07-11-93 2:43.83
5:05.54	08-18-91	USA	GRAHAM JOHNSTON	400 M.	FREE	LAVELLE STOINOFF	USA	07-11-93 5:47.52
10:36.09	08-18-91	USA	GRAHAM JOHNSTON	800 M.	FREE	LAVELLE STOINOFF	USA	06-19-93 12:04.16
20:06.80	07-14-91	USA	GRAHAM JOHNSTON	1500 M.	FREE	LAVELLE STOINOFF	USA	06-13-93 23:17.39
33.74	08-22-93	USA	YOSHI OYAKAWA	50 M.	BACK	DORIS STEADMAN	USA	08-20-89 40.35
1:15.66	08-22-93	USA	DONALD BROWN	100 M.	BACK	GRETHE BENDTSEN	DEN	07-05-92 1:30.22
2:45.93	08-22-93	USA	DONALD BROWN	200 M.	BACK	LAVELLE STOINOFF	USA	06-19-93 3:14.11
35.91	08-18-91	USA	JOHN KORTHEUER	50 M.	BRST	EDITH BOEHM	GER	- -88 42.49
1:21.58	08-18-91	USA	JOHN KORTHEUER	100 M.	BRST	FLORA CONNOLLY	GBR	07-06-93 1:35.86
3:08.59	- -91	USA	JOHN KORTHEUER	200 M.	BRST	FLORA CONNOLLY	GBR	07-06-93 3:27.50
31.52	09-12-93	FRA	JEAN-LOUIS LEDALL	50 M.	FLY	JANE ASHER	GBR	- -91 38.54
1:16.39	09-12-93	FRA	JEAN-LOUIS LEDALL	100 M.	FLY	JUDIE OLIVER	CAN	07-05-92 1:31.52
3:00.99	08-20-90	USA	JOHN MASTERS	200 M.	FLY	JUDIE OLIVER	CAN	07-05-92 3:28.58
				100 M.	I.M.			
2:50.08	08-22-93	USA	GRAHAM JOHNSTON	200 M.	I.M.	FLORA CONNOLLY	GBR	07-06-93 3:15.30
6:04.99	08-18-91	USA	GRAHAM JOHNSTON	400 M.	I.M.	FLORA CONNOLLY	GBR	07-06-93 6:59.08

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-93)

***** M E N *****			65-69 *****			***** W O M E N *****		
28.94	- -91	GER	B SCHLURIKE	50 M.	FREE	CLARA WALKER	USA	07-05-92 34.75
1:08.15	08-28-83	USA	JAMES WELCH	100 M.	FREE	CLARA WALKER	USA	07-05-92 1:16.84
2:32.90	06-21-87	USA	PETER POWLISON	200 M.	FREE	CLARA WALKER	USA	07-05-92 2:48.51
5:38.79	08-28-83	USA	JAMES WELCH	400 M.	FREE	CLARA WALKER	USA	08-18-91 6:05.22
11:35.97	- -91	AUS	R. HARTLEY	800 M.	FREE	CLARA WALKER	USA	07-05-92 12:27.60
22:29.32	08-02-92	USA	WIN WILSON	1500 M.	FREE	CLARA WALKER	USA	08-02-92 24:07.05
35.47	08-20-89	USA	GEORGE GANDSEY	50 M.	BACK	CLARA WALKER	USA	08-23-92 39.85
1:20.74	07-05-92	USA	ROGER FRANKS	100 M.	BACK	DORIS STEADMAN	USA	08-20-90 1:31.58
2:55.46	07-05-92	USA	ROGER FRANKS	200 M.	BACK	DORIS STEADMAN	USA	08-20-90 3:17.12
38.28	07-12-91	USA	JOSEPH KURTZMAN	50 M.	BRST	ERIKA LANGE	GER	09-12-93 45.61
1:28.91	08-18-91	USA	JOSEPH KURTZMAN	100 M.	BRST	CLARA WALKER	USA	07-21-91 1:42.84
3:16.90	- -90	GER	KARL HEINZ KNOPS	200 M.	BRST	MARGARET EVANS	GBR	- -89 3:45.71
33.34	- -87	GBR	JACK HALE	50 M.	FLY	FLORENCE CARR	USA	08-20-90 43.35
1:20.59	08-23-92	USA	JOSEPH KURTZMAN	100 M.	FLY	JUNE KRAUSER	USA	06-23-91 1:40.35
3:08.79	07-12-91	USA	JOSEPH KURTZMAN	200 M.	FLY	JUNE KRAUSER	USA	07-05-92 3:42.61
				100 M.	I.M.			
2:57.61	08-22-93	USA	CHARLES MOSS	200 M.	I.M.	CLARA WALKER	USA	08-23-92 3:20.58
6:25.02	08-22-93	USA	CHARLES MOSS	400 M.	I.M.	CLARA WALKER	USA	08-23-92 7:09.69
***** M E N *****			70-74 *****			***** W O M E N *****		
29.35	08-26-84	USA	KELLEY LEMMON	50 M.	FREE	OLGA JOHNSON	NZL	07-05-92 37.61
1:11.61	08-28-83	USA	KELLEY LEMMON	100 M.	FREE	CATHERINE KERR	CAN	07-05-92 1:28.07
2:44.86	08-28-83	USA	KELLEY LEMMON	200 M.	FREE	CATHERINE KERR	CAN	07-05-92 3:21.01
5:57.45	- -91	JPN	DOMEI SUZUKI	400 M.	FREE	MARGERY MEYER	USA	08-22-93 7:07.58
12:34.22	- -91	JPN	DOMEI SUZUKI	800 M.	FREE	MARGERY MEYER	USA	06-12-93 15:00.12
23:59.01	08-18-91	JPN	DOMEI SUZUKI	1500 M.	FREE	MARGERY MEYER	USA	08-22-93 28:39.46
37.49	08-20-89	USA	RAY TAFT	50 M.	BACK	BUNNY CEDERLUND	USA	07-05-92 44.53
1:25.35	08-20-89	USA	RAY TAFT	100 M.	BACK	BERYL ANDERSON	AUS	- -87 1:39.85
3:13.25	08-20-89	USA	RAY TAFT	200 M.	BACK	BERYL ANDERSON	AUS	- -87 3:47.59
40.56	- -90	GER	WALTER MINNICH	50 M.	BRST	INGEBORG FRITZE	GER	07-05-92 49.57
1:33.20	08-26-84	USA	BENNETT ALLEN	100 M.	BRST	BETTY CHRISTIAN	USA	07-05-92 1:52.88
3:32.90	08-28-88	USA	ALDO DA ROSA	200 M.	BRST	BETTY CHRISTIAN	USA	07-05-92 4:06.80
35.65	07-30-89	USA	RAY TAFT	50 M.	FLY	CATHERINE KERR	CAN	07-05-92 46.55
1:32.85	08-20-90	USA	ANDREW HOLDEN	100 M.	FLY	MARIA LENK	BRA	- -85 2:02.61
3:38.48	- -87	AUS	D JEFFREY	200 M.	FLY	MAXINE MERLINO	USA	08-29-82 4:37.05
				100 M.	I.M.			
3:11.42	08-20-89	USA	RAY TAFT	200 M.	I.M.	CATHERINE KERR	CAN	07-05-92 3:51.91
6:59.24	08-20-89	USA	RAY TAFT	400 M.	I.M.	EVA RAUNER	GER	- -90 8:33.57
***** M E N *****			75-79 *****			***** W O M E N *****		
32.50	08-28-83	USA	LYLE COLLET	50 M.	FREE	HATSUHO SUGAYA	JPN	- -91 40.85
1:14.86	08-24-87	USA	KELLEY LEMMON	100 M.	FREE	LOUISE DONOVAN	USA	08-22-93 1:38.28
2:53.73	08-24-87	USA	KELLEY LEMMON	200 M.	FREE	RITA SIMONTON	USA	06-19-93 3:37.64
6:27.76	- -81	USA	ARTHUR RULE	400 M.	FREE	RITA SIMONTON	USA	06-19-93 7:38.77
13:35.96	07-31-87	USA	HERBERT HOWE	800 M.	FREE	RITA SIMONTON	USA	07-10-93 15:42.58
25:41.55	07-31-87	USA	HERBERT HOWE	1500 M.	FREE	RITA SIMONTON	USA	07-10-93 29:45.90
40.47	07-17-82	USA	ARTHUR HARGRAVE	50 M.	BACK	WILLY VAN RYSEL	GBR	- -91 46.64
1:32.92	08-29-82	USA	ARTHUR HARGRAVE	100 M.	BACK	WILLY VAN RYSEL	GBR	- -91 1:49.73
3:25.93	08-18-91	USA	EDWARD SHEA	200 M.	BACK	MARIE WICKLUN	USA	08-20-89 4:07.44
42.58	- -90	JPN	HIROMU YOSHIMOTO	50 M.	BRST	EMMI PAULI	GER	- -89 52.90
1:37.55	09-05-93	ITA	AUGUSTO ROMANO	100 M.	BRST	GERTRUD ZINT	USA	06-13-93 2:05.99
3:39.00	09-05-93	ITA	AUGUSTO ROMANO	200 M.	BRST	M. BUTZBACH	GER	- -86 4:36.72
39.65	07-18-93	JPN	Y MIYAMOTO	50 M.	FLY	GERTRUD ZINT	USA	08-22-93 55.38
1:39.80	07-05-92	USA	ANTON CERER	100 M.	FLY	KAY SCHIMPF	USA	08-30-92 2:19.44
3:43.56	07-05-92	USA	ANTON CERER	200 M.	FLY	MAXINE MERLINO	USA	05-28-88 4:54.79
				100 M.	I.M.			
3:30.50	08-24-87	USA	KELLEY LEMMON	200 M.	I.M.	MARIA LENK	BRA	- -90 4:20.42
7:33.32	07-05-92	USA	ANTON CERER	400 M.	I.M.	MAXINE MERLINO	USA	08-09-87 9:11.23
***** M E N *****			80-84 *****			***** W O M E N *****		
34.00	06-16-93	USA	WOODROW BOWERSOCK	50 M.	FREE	UME WADA	JPN	- -91 44.25
1:23.56	06-16-93	USA	WOODROW BOWERSOCK	100 M.	FREE	UME WADA	JPN	- -91 1:39.30
3:31.79	08-28-83	USA	GUS LANGNER	200 M.	FREE	UME WADA	JPN	- -92 3:44.00
7:23.09	08-28-83	USA	GUS LANGNER	400 M.	FREE	UME WADA	JPN	- -91 8:23.50
15:48.62	- -90	JPN	TOSHIO TERAO	800 M.	FREE	UME WADA	JPN	- -91 17:21.19
28:54.95	08-13-83	USA	GUS LANGNER	1500 M.	FREE	UME WADA	JPN	11-15-92 33:59.65
45.69	08-08-87	USA	ART HARGRAVE	50 M.	BACK	M WRIGHT	AUS	- -89 53.73
1:45.37	12-06-92	GER	R.REINSTADTLER	100 M.	BACK	M WRIGHT	AUS	- -89 2:01.87
3:47.46	04-24-93	GER	R.REINSTADTLER	200 M.	BACK	M WRIGHT	AUS	- -89 4:22.89
46.59	- -91	GER	KARL WITTENBERG	50 M.	BRST	DOROTHY WESTON	GBR	07-06-93 59.60
1:51.25	- -91	GER	KARL WITTENBERG	100 M.	BRST	DOROTHY WESTON	GBR	07-06-93 2:17.08
4:25.69	08-23-92	USA	HAROLD PERRY	200 M.	BRST	DOROTHY WESTON	GBR	07-06-93 5:01.36
52.05	08-18-91	USA	JESSE COON	50 M.	FLY	V CHERRIMAN	GBR	- -88 1:13.71
2:21.06	07-14-91	USA	JESSE COON	100 M.	FLY	MAXINE MERLINO	USA	08-01-92 2:37.32
5:11.48	- -89	AUS	FRANK GRIFFITHS	200 M.	FLY	MAXINE MERLINO	USA	08-23-92 5:29.93
				100 M.	I.M.			
4:20.05	04-18-93	GER	R.REINSTADTLER	200 M.	I.M.	MAXINE MERLINO	USA	08-23-92 4:47.02
9:47.72	- -88	AUS	FRANK GRIFFITHS	400 M.	I.M.	MAXINE MERLINO	USA	08-23-92 10:05.13

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-93)

***** M E N *****			85-89 *****			***** W O M E N *****		
41.53	05-07-93	AUS	FRANK GRIFFITHS	50	M. FREE	AILEEN SOULE	USA	06-09-91 51.48
1:43.03	10-15-88	USA	GUS LANGNER	100	M. FREE	AILEEN SOULE	USA	08-18-91 2:07.61
3:48.91	10-01-88	USA	GUS LANGNER	200	M. FREE	AILEEN SOULE	USA	08-18-91 4:49.52
8:14.50	08-28-88	USA	GUS LANGNER	400	M. FREE	ELLA PECKHAM	USA	06-17-84 13:22.48
17:11.21	10-15-88	USA	GUS LANGNER	800	M. FREE	ANNA BAUSCHER	USA	08-28-88 24:23.38
33:08.42	08-20-89	USA	GUS LANGNER	1500	M. FREE	ANNA BAUSCHER	USA	08-18-91 52:15.77
58.07	06-16-93	USA	JIM PENFIELD	50	M. BACK	AILEEN SOULE	USA	08-18-91 58.42
2:07.06	08-01-93	USA	JIM PENFIELD	100	M. BACK	AILEEN SOULE	USA	06-09-91 2:13.13
4:43.49	06-19-93	USA	JIM PENFIELD	200	M. BACK	AILEEN SOULE	USA	06-09-91 4:47.82
58.96	07-05-92	GER	F. MEERWALD	50	M. BRST	YOSHI KUCHIBA	JPN	04-15-93 1:26.13
2:18.92	- -91	JPN	SHOHEI YOSHIDA	100	M. BRST	YOSHI KUCHIBA	JPN	04-15-93 3:06.40
5:09.86	- -91	JPN	SHOHEI YOSHIDA	200	M. BRST	YOSHI KUCHIBA	JPN	07-18-93 7:15.13
59.50	- -91	JPN	SHOHEI YOSHIDA	50	M. FLY	ELLA PECKHAM	USA	06-15-85 1:27.77
2:33.63	05-07-93	AUS	FRANK GRIFFITHS	100	M. FLY	KATHERINE PELTON	USA	07-28-91 3:01.14
5:24.28	05-07-93	AUS	FRANK GRIFFITHS	200	M. FLY	KATHERINE PELTON	USA	08-12-90 7:18.41
				100	M. I.M.			
4:40.15	05-07-93	AUS	FRANK GRIFFITHS	200	M. I.M.	KATHERINE PELTON	USA	07-13-91 6:44.53
12:27.27	08-04-91	USA	ABE OLANOFF	400	M. I.M.	KATHERINE PELTON	USA	08-26-90 14:02.65
***** M E N *****			90 + *****			***** W O M E N *****		
49.51	08-22-93	USA	GUS LANGNER	50	M. FREE	PEARL MILLER	USA	07-10-88 2:02.38
1:57.91	08-22-93	USA	GUS LANGNER	100	M. FREE	PEARL MILLER	USA	07-10-88 4:08.22
4:28.34	08-22-93	USA	GUS LANGNER	200	M. FREE			
9:44.11	08-22-93	USA	GUS LANGNER	400	M. FREE			
23:15.77	08-22-93	USA	GUS LANGNER	800	M. FREE			
36:47.02	08-22-93	USA	GUS LANGNER	1500	M. FREE			
1:16.30	05-28-89	USA	TOM LANE	50	M. BACK	VERA FERNANCE	AUS	- -88 2:01.70
3:19.14	07-05-92	USA	TOM LANE	100	M. BACK	VERA FERNANCE	AUS	- -88 3:59.89
8:59.53	07-22-90	USA	TONY LOPEZ	200	M. BACK	PEARL MILLER	USA	07-16-89 10:47.76
1:36.87	05-28-89	USA	TOM LANE	50	M. BRST			
5:16.03	08-29-82	USA	LUDWIG MAGENER	100	M. BRST			
				200	M. BRST			
				50	M. FLY			
				100	M. FLY			
				200	M. FLY			
				100	M. I.M.			
				200	M. I.M.			
				400	M. I.M.			

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-93)

WRL LCM RECORDS AS OF 11-01-93

***** RELAY 200 M. FREE - WOMEN *****			***** RELAY 200 M. MEDLEY - WOMEN *****				
100	+ HOLMES-USA	08-28-88	1:53.20	100	+ HOLMES - USA	08-28-88	2:06.67
	MARY HOLMES	SUSAN HALFACRE			BETH MAUER	DEB WALKER	
	BETH MAUER	TISH BUCHER			TISH BUCHER	MARY HOLMES	
120	+ LONE STAR-USA	08-24-87	1:53.05	120	+ HOLMES - USA	- -88	2:08.21
	MONICA BURK	BRIGITTE HEUER					
	L. MORRISON-CASEY	JACKI HIRSTY					
160	+ D.C.MASTERS-USA	08-28-88	2:03.48	160	+ ROCKY MT. - USA	07-05-92	2:15.86
	JACKI HIRSTY	NANCY KIRKENDALL			SHARON LAHEY	CATHY DROZDA	
	ANN SVANSON	SUE HARRINGTON			JUDY REED	MARCY BULLOCK	
200	+ LOS ALTOS-USA	08-23-92	2:09.35	200	+ NEUK-GER	07-05-92	2:27.18
	CAROLYN BOAK	ARLENE PROEBSTING			BRIGITTE MERTEN	MONIKA SENFTLEBEN	
	DELLA SEHORN	LAURA VAL			HEIDI KAMPSCHULTE	MARGA SCHULZE	
240	+ HOLMES - USA	- -88	2:28.24	240	+ HOLMES - USA	- -88	2:51.82
280	+ HOLMES - USA	- -88	3:09.01	280	+ HESTON-GBR	06-06-92	3:35.00
					DOROTHY WILLIAMS	DOROTHY WESTON	
					EDITH HEWITT	VALERIE HARDMAN	
320	+			320	+		

***** RELAY 200 M. FREE - M E N *****			***** RELAY 200 M. MEDLEY - M E N *****				
100	+ REGATAS-BRASIL	08-11-90	1:37.40	100	+ POWERS-AUST	04-07-90	1:49.84
	JOSE SANTOS	JORGE FERNANDES			BRAD COOPER	NEIL GYNTHY	
	M. GOLDENSTEIN	JOSE MOREIRA			ANKER BRODERSEN	ANGUS WADDELL	
120	+ LONE STAR	07-16-86	1:37.43	120	+ POWERS-AUST	04-07-90	1:49.84
	DAVID HAGUE	JAMES MONTGOMERY			BRAD COOPER	NEIL GYNTHY	
	TRIP HEDRICK	BUCK SMITH			ANKER BRODERSEN	ANGUS WADDELL	
160	+ HOLMES - USA	08-11-90	1:39.27	160	+ OLYMPIC CLUB	08-22-93	1:54.45
	JAMES LILLEY	C. MILTENBERGER			TIM BIRNIE	STUART CORLISS	
	RICHARD ABRAHAMS	TIMOTHY GARTON			JEFF STILING	STEVE CLARK	
200	+ OLYMPIC CLUB	07-05-92	1:47.65	200	+ OLYMPIC CLUB	07-05-92	2:00.25
	ROBERT STRAND	DONALD HILL			JAMES BEGLINGER	ROBERT STRAND	
	JAMES ELDER	BOB MOMSEN			STEVE CLARK	DONALD HILL	
240	+ GOST-USA	07-05-92	1:58.54	240	+ LINCOLN - USA	08-18-91	2:21.20
	THOMAS OLANDER	SID HALL			GEORGE GANDSEY	BILL MULLIKEN	
	KEITH CARTER	JOHN FLORANCE			PAUL HUTINGER	SAM KOOISTRA	
280	+ SHUEI-JPN	09-15-92	2:10.18	280	+ OREGON - USA	08-23-92	2:34.57
	SHUICHI MURAYAMA	JUZO TSUBOTA			FLOYD ELIOTT	BOB MORRISON	
	ISAMU TAMURA	KEIJIRO NAKAMURA			ANDREW HOLDEN	GERALD HUESTIS	
320	+ REC SWIM 88-JPN	07-18-93	2:53.29	320	+ REC SWIM 88-JPN	07-18-93	3:30.60
	S FUKUWATARI	TETSU YAMAUCHI			SHIRO ISHIKAWA	HARUO CHIJIWA	
	SHIRO ISHIKAWA	HARUO CHIJIWA			NORI YAMAMOTO	TETSU YAMAUCHI	

***** RELAY 200 M. FREE - MIXED *****			***** RELAY 200 M. MEDLEY - MIXED *****				
100	+ HOLMES - USA	- -88	1:43.89	100	+ HOLMES - USA	08-28-88	1:56.58
					BETH MAUER	BRUCE HOWELL	
					SAM SEIPLE	MARY HOLMES	
120	+ HOLMES - USA	- -88	1:44.83	120	+ D.C. MASTERS	- -85	1:58.03
					THOMAS WOLF	MATTHEW KANZLER	
					SUSAN SKIFF	JACKI HIRSTY	
160	+ ROCKY MT. - USA	07-05-92	1:47.46	160	+ HOLMES - USA	- -88	2:02.10
	CATHY DROZDA	JUDY REED					
	TOM WHATLEY	RICHARD ABRAHAMS					
200	+ LOS ALTOS - USA	08-23-92	1:58.15	200	+ LOS ALTOS - USA	08-23-92	2:14.58
	EDWARD CAZALET	CAROLYN BOAK			EDWARD CAZALET	CAROLYN BOAK	
	ARLENE PROEBSTING	ROBERT PROEBSTING			ROBERT PROEBSTING	ARLENE PROEBSTING	
240	+ HOLMES - USA	- -88	2:09.67	240	+ NEW ENGLAND-USA	08-28-88	2:29.30
					CLARA WALKER	TED HAARTZ	
					WIN WILSON	DIANE REED	
280	+ OREGON - USA	08-23-92	2:31.29	280	+ HOLMES - USA	- -88	2:37.98
	GERALD HUESTIS	ANDREW HOLDEN					
	PETEY SMITH	PAULINE STANGEL					
320	+ DC MASTERS-USA	08-01-93	3:03.15	320	+ SC POSEIDON-GER	09-12-93	4:18.03
	NANCY CLARK	ANNE WALKER			GERDA SCHUBERT	RUDI SCHUBERT	
	KELLEY LEMMON	DAVID MCAFEE			KARL WITTENBERG	RUTH HOFFMANN	

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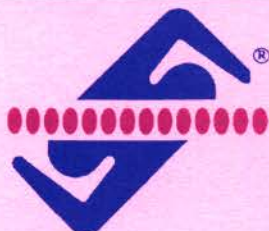
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