

\$6.00

***United States
Masters Swimming Inc.***

**1992
Top Ten
Long Course Meters**

**and
World Records
as of November 1, 1992
Short Course Meters
Long Course Meters**

***United States
Masters
Swimming***



Published December 1992



TOP TEN

Long Course Meters

50 M. FREE WOMEN 19-24	23:40.52 C M WALLIS	22	3:13.33 JUDY SMITH	23	1:00.63 ANNA PETTIS-SCOTT	29
27.94 DANA DUTCHER	23:44.35 JENNIFER BLAKE	23	3:14.31 LISA ELLIOTT	20	1:00.81 SARA SHAND	28
27.94 DANA DUTCHER	50 M. BACK WOMEN 19-24		3:19.16 KIMBERLEY HAY	23	1:01.91 CAROL OLSON	29
28.62 TERRI O'LOUGHLIN	31.55 TORI SMITH	90	3:33.75 AMBER DANSKY	20	1:02.34 CORRIN CONVIS	27
28.76 SHANNON HERINGER	32.80 DANA DUTCHER	24	50 M. FLY WOMEN 19-24		1:03.18 AMY KNOTT	25
28.95 SHERRI WELDON	33.30 SHANNON HERINGER	24	30.28 TERRI O'LOUGHLIN	92	1:03.21 LINDA TANKERSLEY	29
29.17 LAUREL F LYNCH	33.80 MAUREEN WATERS	24	30.28 TERRI O'LOUGHLIN	24	1:03.32 VICKY DAVIDSON	27
29.47 PEGGY GROSS	34.02 TERRI O'LOUGHLIN	24	30.40 SHANNON HERINGER	24	1:03.62 LESLEY A CHEQUER	26
29.50 MINDY K WRIGHT	35.04 CHRISTIE GEIST	23	30.69 DANA DUTCHER	24	1:03.77 NANCY HALL	25
29.66 BRENDA WICKLUND	35.80 JENNIFER STEVENS	23	32.09 PEGGY GROSS	23	1:03.84 CAROLYN ACKERLEY	26
29.84 PAULA JONES	36.32 LISA HOCKETT	24	32.50 CAROLINE COOPER	23	200 M. FREE WOMEN 25-29	
29.87 JENNIFER A SADLER	36.32 NANCY EWELL	24	32.78 DEBORAH HEIM	23	2:07.11 SARA SHAND	89
100 M. FREE WOMEN 19-24	36.39 SUE E LOWRIE	24	32.96 CHRISTIE GEIST	23	2:13.01 CAROL OLSON	29
1:01.49 ANITA HARRISON	36.41 MINDY K WRIGHT	24	33.20 JENNIFER A SADLER	21	2:14.37 ANNA PETTIS-SCOTT	29
1:02.10 DANA DUTCHER	100 M. BACK WOMEN 19-24		33.37 YURIKO SATO	23	2:15.75 AMY KNOTT	25
1:03.46 SHERRI WELDON	1:06.09 DAWN BRACIAK	87	33.42 JULIE WHITE	23	2:16.24 WENDY L INGRAHAM	28
1:03.50 PAULA JONES	1:10.44 DANA DUTCHER	24	100 M. FLY WOMEN 19-24		2:16.97 LESLEY A CHEQUER	26
1:03.80 BRENDA WICKLUND	1:12.49 CYNTHIA HINSHAW	22	1:06.05 BLANCA CASTILLO	88	2:19.17 LORETTA SOFFE	25
1:04.62 M.CHAPMAN-THURBER	1:13.61 SHANNON HERINGER	24	1:08.88 SHANNON HERINGER	24	2:20.01 AMY ALEXANDER	27
1:04.66 AIMEE S VOSTI	1:14.77 AIMEE S VOSTI	24	1:13.11 NATALIE EFFA	24	2:20.65 AIMEE S VOSTI	25
1:06.21 LAUREL F LYNCH	1:15.74 MAUREEN WATERS	24	1:13.42 CHRISTIE GEIST	23	2:21.60 SUSAN J DUNCAN	26
1:06.40 PEGGY GROSS	1:17.43 MINDY K WRIGHT	24	1:14.32 DEBORAH HEIM	23	2:21.87 JANE DUGAN	29
1:06.55 MINDY K WRIGHT	1:18.09 MEGAN MCCARTHY	21	1:15.83 LISA HOCKETT	24	400 M. FREE WOMEN 25-29	
1:07.15 YURIKO SATO	1:18.36 JENNIFER A SADLER	21	1:17.88 LAURA GAUNA	24	4:27.53 SARA SHAND	89
200 M. FREE WOMEN 19-24	1:18.58 JENNIFER STEVENS	23	1:18.71 LAURA HARRIS	24	4:43.89 LORETTA SOFFE	25
2:14.17 DIANE URSIN	1:18.60 ANN PRITCHETT	19	1:19.65 ADRIENNE MORGAN	20	4:45.79 WENDY L INGRAHAM	28
2:15.35 CYNTHIA HINSHAW	200 M. BACK WOMEN 19-24		1:19.92 BETH G SKOREY	20	4:47.26 LESLEY A CHEQUER	26
2:20.41 SHERRI WELDON	2:26.62 MICHELLE DONAHUE	92	1:20.20 PAULA JONES	23	4:52.45 AMY KNOTT	25
2:23.18 DONNA JOHNSON	2:26.62 MICHELLE DONAHUE	24	200 M. FLY WOMEN 19-24		4:53.40 JENNIFER SMITH	25
2:24.16 PAULA JONES	2:37.33 CYNTHIA HINSHAW	22	2:22.59 BLANCA CASTILLO	88	4:59.40 DIANE DEBOBES	25
2:25.07 M.CHAPMAN-THURBER	2:54.54 BETH G SKOREY	20	2:49.37 NATALIE EFFA	24	4:59.46 TRISCHA ZORN	28
2:25.51 AMY DEARMAND	2:59.53 SUE E LOWRIE	24	3:12.31 C M WALLIS	22	5:01.66 SUSAN J DUNCAN	26
2:25.76 AIMEE S VOSTI	3:03.49 ERIKA GISTE	20	200 M. I.M. WOMEN 19-24		5:02.20 C.CHICHESTER	29
2:25.98 MINDY K WRIGHT	3:04.43 TONYA FINLEY	23	2:29.90 MICHELLE DONAHUE	92	5:02.28 PAMELA BOSCOVICH	29
2:29.14 CHERESE EDER	3:05.18 JONNA SCHULER	24	2:29.90 MICHELLE DONAHUE	24	800 M. FREE WOMEN 25-29	
2:29.26 DONNA J NICHOLAS	3:05.29 KATHLEEN PETERSON	24	2:38.65 JANET HAUER	24	9:18.43 SARA SHAND	89
400 M. FREE WOMEN 19-24	3:05.68 SUZANNE DUDGEON	24	2:38.71 TERRI O'LOUGHLIN	24	9:55.84 LESLEY A CHEQUER	26
4:40.07 CYNTHIA HINSHAW	3:07.43 LISA ELLIOTT	20	2:42.49 PAULA JONES	23	9:58.10 WENDY L INGRAHAM	28
4:40.07 CYNTHIA HINSHAW	50 M. BRST WOMEN 19-24		2:42.99 LYNNE TEDESCO	23	10:01.89 AMY ALEXANDER	27
4:56.79 SHERRI WELDON	35.22 TRACEY MCFARLANE	91	2:44.62 DEBORAH HEIM	23	10:14.99 VICKY DAVIDSON	27
4:57.05 DONNA JOHNSON	37.95 JANET HAUER	24	2:45.08 JULIE WHITE	23	10:17.08 C.CHICHESTER	29
5:08.10 AMY DEARMAND	37.99 TERRI O'LOUGHLIN	24	2:46.70 CAROLINE COOPER	23	10:20.81 SUSAN J DUNCAN	26
5:11.54 PAULA JONES	38.97 LISA M CHRISTO	24	2:50.00 CHERESE EDER	20	10:25.46 TRACEY MCFARLANE	25
5:19.93 MICHELLE MCCLURE	39.08 LYNNE TEDESCO	23	2:50.48 DONNA J NICHOLAS	24	10:25.60 ANITA BENEDICT	29
5:24.60 JULIE WHITE	39.79 KIMBERLY MONAGHAN	22	400 M. I.M. WOMEN 19-24		10:26.77 YVONNE MULTER	28
5:30.55 ADRIENNE MORGAN	39.98 CAROLINE COOPER	23	5:20.39 DIANE URSIN	87	10:29.90 LISA TALLMAN	28
5:32.05 BEE SCHLOTEC	40.04 ANGELA MUELLER	23	5:30.90 JANET HAUER	24	1500 M. FREE WOMEN 25-29	
5:33.06 CHERESE EDER	40.56 NANCY EWELL	24	5:52.09 DEBORAH HEIM	23	17:38.78 AMY POPE	88
800 M. FREE WOMEN 19-24	40.57 DEBORAH HEIM	23	5:53.23 PAULA JONES	23	19:43.55 C.CHICHESTER	29
9:54.84 CYNTHIA HINSHAW	40.87 LISA ELLIOTT	20	5:54.02 STACY COSTA	23	19:56.94 ANNA PLANTIER	29
9:54.84 CYNTHIA HINSHAW	100 M. BRST WOMEN 19-24		6:01.05 JULIE WHITE	23	19:57.16 J.EDMUNDSON	28
10:17.20 SHERRI WELDON	1:18.44 TRACEY MCFARLANE	91	6:26.73 LISA ELLIOTT	20	19:58.52 MARCIA CLEVELAND	28
10:41.60 AMY DEARMAND	1:20.63 JULIE WHITE	23	6:29.30 C M WALLIS	22	20:20.83 ANITA L BENEDICT	29
11:15.89 MICHELLE MC CLURE	1:21.85 JANET HAUER	24	6:36.58 KIMBERLEY HAY	24	20:30.39 JENNIFER RESCH	27
11:21.97 BEE SCHLOTEC	1:22.71 LISA M CHRISTO	24	*****		20:46.62 ANN DEPUTI	27
11:27.31 KERSTEN ANNEGERS	1:24.90 LYNNE TEDESCO	23	50 M. FREE WOMEN 25-29		20:56.34 ALICE HORN	26
12:27.14 C M WALLIS	1:25.10 KIMBERLY MONAGHAN	22	26.68 SARA SHAND	91	21:14.31 BECKY HELLER	28
12:45.92 HEATHER LAUVER	1:25.68 BRENDA WICKLUND	23	27.06 ANNA PETTIS-SCOTT	29	21:24.09 SUSAN EICHER	29
12:51.80 ERIKA GISTE	1:26.87 CAROLINE COOPER	23	27.15 SARA SHAND	28	50 M. BACK WOMEN 25-29	
13:08.87 JENNIFER R BLAKE	1:28.14 LISA ELLIOTT	20	28.45 VICKY DAVIDSON	27	30.80 DIANE GRANER	89
1500 M. FREE WOMEN 19-24	1:28.63 KERSTEN ANNEGERS	23	28.74 TRACEY MCFARLANE	25	32.43 TRISCHA ZORN	28
18:37.22 CYNTHIA HINSHAW	1:28.80 DEBORAH HEIM	23	28.86 CAROL OLSON	29	33.22 JILL ROTHKOPF	25
18:37.22 CYNTHIA HINSHAW	200 M. BRST WOMEN 19-24		28.91 LINDA TANKERSLEY	29	33.44 PAMELA BOSCOVICH	29
19:10.46 DONNA JOHNSON	2:54.47 JANET HAUER	92	29.03 CAROLYN ACKERLEY	26	33.87 VICKY DAVIDSON	27
20:29.68 AMY DEARMAND	2:54.47 JANET HAUER	24	29.08 CHRISSEY LAMBERT	26	34.59 AIMEE S VOSTI	25
21:23.73 BEE SCHLOTEC	3:00.80 LISA M CHRISTO	24	29.22 DEENA CROSSMORE	28	34.86 VANESSA RICHEY	25
22:24.46 TAMMI KEELER	3:03.98 JULIE WHITE	23	29.32 TRISCHA ZORN	28	34.93 CHRISTINE HOLMAN	27
22:35.48 JENNY MUELLER	3:04.33 KIMBERLY MONAGHAN	22	29.32 LESLEY A CHEQUER	26	34.94 MARCIA CLEVELAND	28
23:05.52 JENNIFER E BROWN	3:09.59 BRENDA WICKLUND	23	100 M. FREE WOMEN 25-29		34.97 CONNIE RYDBERG	26
23:31.40 KATHLEEN WANDLER	3:09.70 KERSTEN ANNEGERS	23	58.23 SARA SHAND	91	35.25 TARYN GAULIEN	26

TOP TEN

Long Course Meters

100 M. BACK WOMEN 25-29	31.66	CAROL OLSON	29	1:02.09	CATHY DROZDA	33	1:10.99	SHARON LAHEY	33				
1:07.32	DIANE GRANER	89	31.70	VANESSA RICHEY	25	1:03.23	E.SCHEIMANN	30	1:12.59	ERIN BORDEN	30		
1:08.36	TRISCHA ZORN	28	100 M. FLY WOMEN 25-29	1:03.35	ZENA HERRMANN	32	1:12.69	LEISSA MILLS	32				
1:11.15	VICKY DAVIDSON	27	1:03.91	ROSEMARIE SEAMAN	87	1:03.65	KATHY GARNIER	32	1:12.84	SANDRA ZIEMER	32		
1:11.45	PAMELA BOSCOVICH	29	1:07.20	ANNA PETTIS-SCOTT	29	1:04.16	LESLEY MATHESON	31	1:14.17	DIANE DUNN	31		
1:11.83	AIMEE S VOSTI	25	1:08.18	LINDA S. NEARY	28	1:04.24	PAULA ROEMER	31	1:14.87	LINDLEY DOUGHTY	33		
1:13.80	TARYN GAULIEN	26	1:08.47	LINDA TANKERSLEY	29	200 M. FREE WOMEN 30-34	1:15.24	CAROLE MASSIE	30				
1:14.24	JENNIFER OGLE	25	1:09.04	LORETTA SOFFE	25	2:07.84	BETH KNIGHT	89	1:15.63	AMY J RIEGER	30		
1:14.75	JANICE E LESYNA	25	1:09.16	TARYN GAULIEN	26	2:11.10	MARY ROEBUCK	30	200 M. BACK WOMEN 30-34	2:26.99	ZENA HERRMANN	92	
1:15.48	CONNIE RYDBERG	26	1:10.38	TRISCHA ZORN	28	2:11.66	K.PARKER-MEDLIN	30	2:26.99	ZENA HERRMANN	33		
1:15.57	AMY KNOTT	25	1:10.80	JENNIFER UEBELE	27	2:11.83	BETH HARRELL	32	2:30.22	KAREN BURTON	30		
1:16.36	NANCY HALL	25	1:10.87	KIMBERLEE BRUNER	27	2:13.12	LEISSA MILLS	32	2:33.69	ANDREA DEVIUNO	30		
200 M. BACK WOMEN 25-29	1:11.07	CHRISSE LAMBERT	26	1:11.24	JILL ROTHKOPF	25	2:16.99	E.SCHEIMANN	30	2:42.00	ERIN BORDEN	30	
2:19.97	DIANE GRANER	89	1:11.24	JILL ROTHKOPF	25	2:19.76	CATHY DROZDA	33	2:42.09	LINDLEY DOUGHTY	33		
2:30.44	TRISCHA ZORN	28	200 M. FLY WOMEN 25-29	2:22.42	JUNE FORD	87	2:19.93	MARGE CURRAN	31	2:43.36	PAULA ROEMER	31	
2:33.87	VICKY DAVIDSON	27	2:35.01	LINDA S. NEARY	28	2:20.19	DEBORAH ZIMIC	30	2:44.17	MARGARET LLOYD	31		
2:34.42	PAMELA BOSCOVICH	29	2:40.69	C.CHICHESTER	29	2:20.57	KATHY GARNIER	32	2:45.27	MONICA BAILEY	31		
2:40.03	JILL ROTHKOPF	25	2:44.41	MARCIA CLEVELAND	28	400 M. FREE WOMEN 30-34	4:30.38	BETH KNIGHT	91	2:46.97	JEANNE LUEBBERT	32	
2:40.24	C.CHICHESTER	29	2:45.20	KARIN DECK	29	4:35.06	K.PARKER-MEDLIN	30	2:48.71	NANCY MITCHELL	30		
2:40.35	JENNIFER OGLE	25	2:45.35	ANN DEPUTI	27	4:38.54	MARY ROEBUCK	30	50 M. BRST WOMEN 30-34	35.90	LISA BENNETT	88	
2:43.31	CONNIE RYDBERG	26	2:45.81	JENNIFER UEBELE	27	4:46.38	ZENA HERRMANN	33	37.26	E.SCHEIMANN	30		
2:43.98	ROBIN HAMPTON	25	2:47.78	CHRISSE LAMBERT	26	4:46.78	LEISSA MILLS	32	37.27	JULIE BOAZ	30		
2:46.12	ANNA PLANTIER	29	2:51.49	VANESSA RICHEY	25	4:52.28	DENISE WARE	30	37.49	JULIE MALCOLM	32		
2:46.70	KIM D ELSBACH	29	2:58.42	ANN SCHWERZLER	26	4:53.27	MARGUERITE MEYER	33	38.03	LESLIE COOPER	32		
50 M. BRST WOMEN 25-29	3:00.96	ANNA PLANTIER	29	3:00.96	ANNA PLANTIER	29	4:57.36	MARGE CURRAN	31	38.09	JANE ROBIE	34	
34.36	ROSEMARIE SEAMAN	87	200 M. I.M. WOMEN 25-29	2:25.45	SARA SHAND	89	4:57.55	SUZANNE M HEIM	34	38.19	MARY H. ROEBUCK	30	
37.41	ROBIN T. MOLINA	28	2:33.08	LORETTA SOFFE	25	4:57.80	DEBORAH ZIMIC	30	39.23	VAL KERR-HAGUE	31		
37.53	PAIGE HARPER	26	2:33.24	SARA SHAND	28	4:59.72	LESLEY MATHESON	31	39.41	NANCY CAHILL	34		
37.67	KARYN HEANEY	28	2:33.78	CORRIN CONVIS	27	800 M. FREE WOMEN 30-34	9:20.20	BETH KNIGHT	91	39.57	CATHY COOLEY	34	
37.99	DEBBIE FALSGRAF	27	2:35.49	C.CHICHESTER	29	9:26.26	K.PARKER-MEDLIN	30	39.86	SUZANNE SAATKAMP	30		
38.12	JENNIFER UEBELE	27	2:35.89	TRISCHA ZORN	28	9:37.87	MARY ROEBUCK	30	100 M. BRST WOMEN 30-34	1:19.55	LISA BENNETT	88	
38.62	J.EDMUNDSON	28	2:36.79	LINDA S. NEARY	28	9:59.27	MARGUERITE MEYER	33	1:20.91	JULIE SEARS	30		
38.82	TRACY TUTAG	28	2:38.58	AMY ALEXANDER	27	10:04.18	SUZANNE M HEIM	34	1:21.64	JANN GIRARD	32		
38.95	DEENA CROSSMORE	28	2:38.82	TARYN GAULIEN	26	10:09.56	MARGE CURRAN	31	1:21.86	CATHY DROZDA	33		
39.23	JUDITH ERICKSON	27	2:40.73	JANE DUGAN	29	10:09.80	DENISE WARE	30	1:22.03	E.SCHEIMANN	30		
39.27	LISA TALLMAN	28	2:40.74	VICKY DAVIDSON	27	10:18.89	COLLEEN DRISCOLL	33	1:22.72	JULIE BOAZ	30		
100 M. BRST WOMEN 25-29	1:16.60	S.MCINTYRE-WOODS	91	400 M. I.M. WOMEN 25-29	5:06.34	SARA SHAND	89	10:20.13	H.VAUGHN-EDMONDS	30	1:22.95	MARY H. ROEBUCK	30
1:18.04	TRACEY MCFARLANE	25	5:19.84	LORETTA SOFFE	25	10:20.84	JANN GIRARD	32	1:23.05	LESLIE COOPER	32		
1:19.31	CORRIN CONVIS	27	5:29.76	TRISCHA ZORN	28	10:32.00	BETH O'CONNOR	31	1:24.19	JULIE MALCOLM	32		
1:20.80	KARYN HEANEY	28	5:31.76	C.CHICHESTER	29	1500 M. FREE WOMEN 30-34	17:40.50	KAREN BURTON	92	1:24.40	NANCY MITCHELL	30	
1:21.29	ROBIN T. MOLINA	28	5:34.51	AMY ALEXANDER	27	17:40.50	KAREN BURTON	30	1:25.74	LAURI NICHOLS	32		
1:22.31	DEBBIE FALSGRAF	27	5:37.54	LINDA S. NEARY	28	18:54.96	MARGUERITE MEYER	33	200 M. BRST WOMEN 30-34	2:53.08	KAREN MELICK	87	
1:23.53	DEENA CROSSMORE	28	5:46.95	YVONNE MULTER	28	19:18.39	SUZANNE M HEIM	34	2:56.38	JULIE BOAZ	30		
1:24.23	J.EDMUNDSON	28	5:49.11	JENNIFER UEBELE	27	19:48.72	MONA SEAMAN	31	2:56.69	JULIE SEARS	30		
1:24.55	JENNIFER UEBELE	27	5:52.31	J.EDMUNDSON	28	19:51.32	LESLIE HENSHAW	33	3:00.26	E.SCHEIMANN	30		
1:24.73	Laurie Kilmartin	27	5:53.85	Laurie Kilmartin	27	19:57.85	LESLIE COOPER	32	3:00.60	NANCY MITCHELL	30		
1:26.43	PAIGE HARPER	26	6:01.79	ANITA BENEDICT	29	20:21.06	M. CHARLAP	31	3:01.54	JANN GIRARD	32		
200 M. BRST WOMEN 25-29	2:50.04	NANCY MITCHELL	87	*****	20:24.11	KIMBERLY MC CORD	31	3:01.89	LESLIE COOPER	32			
2:53.85	CORRIN CONVIS	27	50 M. FREE WOMEN 30-34	26.37	S.NEILSON-BELL	88	20:36.91	BETH SCHEIMANN	30	3:05.25	SUZANNE SAATKAMP	30	
2:55.69	KARYN HEANEY	28	28.13	GRACIE GODDARD	32	20:44.65	EILEEN G. O'BRIEN	31	3:06.50	JULIE MALCOLM	32		
2:59.55	Laurie Kilmartin	27	28.21	BETH HARRELL	32	50 M. BACK WOMEN 30-34	32.11	BETH MAUER	88	3:08.96	LAURA KESSLER	31	
3:00.06	DEENA CROSSMORE	28	28.50	MARY ROEBUCK	30	32.54	SHARON LAHEY	33	3:09.81	CATHY COOLEY	34		
3:00.21	DEBBIE FALSGRAF	27	28.67	E.SCHEIMANN	30	32.83	ZENA HERRMANN	33	50 M. FLY WOMEN 30-34	29.22	BETH HARRELL	92	
3:02.77	J.EDMUNDSON	28	28.70	CATHY DROZDA	33	32.89	ANDREA DEVIUNO	30	29.22	BETH HARRELL	32		
3:04.05	JUNE FORD	29	28.74	PAULA ROEMER	31	33.59	DIANE DUNN	31	30.27	SANDRA ZIEMER	32		
3:04.16	TRISCHA ZORN	28	29.00	CODEL SCHOENGARTH	32	33.85	LANNY SCHAFFER	32	30.76	GRACIE GODDARD	32		
3:08.17	ROBIN KENNEDY	25	29.12	LESLEY MATHESON	31	34.03	LINDLEY DOUGHTY	33	31.40	CINDY WATTS	31		
3:08.89	KRISTIN NELSEN	26	29.17	DIANE DUNN	31	34.04	ERIN BORDEN	30	31.47	LAURI NICHOLS	32		
50 M. FLY WOMEN 25-29	28.79	ROSEMARIE SEAMAN	87	29.34	JEANNIE JOHNSON	30	34.76	PAULA ROEMER	31	31.48	JULIE SEARS	30	
28.82	ANNA PETTIS-SCOTT	29	29.34	DARBY M ELLEMAN	32	35.10	MONICA BAILEY	31	31.57	BARBARA CROWDER	34		
30.34	LINDA TANKERSLEY	29	100 M. FREE WOMEN 30-34	58.09	S.NEILSON-BELL	88	35.48	DEBORAH DOURLAIN	30	31.83	MONIKA DALKIN	33	
30.67	LINDA S. NEARY	28	1:00.57	BETH HARRELL	32	100 M. BACK WOMEN 30-34	1:09.07	ZENA HERRMANN	92	31.90	LISA MARLOW	31	
30.72	TARYN GAULIEN	26	1:00.60	MARY ROEBUCK	30	1:09.15	ZENA HERRMANN	33	31.91	MARIA VELIKONJA	34		
31.18	VICKY DAVIDSON	27	1:01.06	GRACIE GODDARD	32	1:10.12	ANDREA DEVIUNO	30	100 M. FLY WOMEN 30-34	1:06.08	BETH HARRELL	92	
31.23	HEIKE HAENDEL	29	1:01.63	LEISSA MILLS	32								
31.42	CHRISSE LAMBERT	26											
31.54	KIMBERLEE BRUNER	27											

Jennifer Uebele

TOP TEN

Long Course Meters

1:06.08 BETH HARRELL	32	1:07.32 PATRICIA MCKAY	37	1:17.82 MORRI SPANG	35	1:11.45 CATHY NEVILLE	35
1:08.98 SANDRA ZIEMER	32	200 M. FREE WOMEN 35-39		1:18.11 CAROLE SHIGAKI	37	1:11.84 BRIDGET VACHE	37
1:09.41 LEISSA MILLS	32	2:09.33 SUSAN HALFACRE	88	1:18.31 MELISSA BEATY	35	1:12.52 MARY CHRIS CURL	35
1:09.50 LAURI NICHOLS	32	2:19.71 K.TREBESINER	38	200 M. BACK WOMEN 35-39		1:13.27 K.TREBESINER	38
1:09.61 MARIA VELIKONJA	34	2:20.63 BARBARA CROWDER	35	2:35.44 KAREN FARNSWORTH	92	1:13.58 MARYANN STEVENS	39
1:09.99 LISA MARLOW	31	2:21.52 KATHERINE BRANCH	35	2:35.44 KAREN FARNSWORTH	36	200 M. FLY WOMEN 35-39	
1:11.13 GRACIE GODDARD	32	2:22.00 D.OGIER-POLLARD	39	2:37.93 KATHERINE BRANCH	35	2:26.38 LAURA VAL	89
1:11.59 LINDLEY DOUGHTY	33	2:22.19 MARY CHRIS CURL	35	2:38.64 PATTY LANDERS	35	2:37.02 SUSAN SKIFF	37
1:11.70 NANCY MITCHELL	30	2:25.57 MARCIA S DUGGER	35	2:42.82 K.TREBESINER	38	2:37.47 DEBBIE FLANSBURG	36
1:11.99 SUZANNE M HEIM	34	2:25.76 BRIDGET VACHE	37	2:44.76 MARYANN STEVENS	39	2:41.31 BRIDGET VACHE	37
200 M. FLY WOMEN 30-34		2:26.78 TERRI HOPPENRATH	35	2:48.98 MELISSA BEATY	35	2:42.82 MARYANN STEVENS	39
2:27.54 KAREN BURTON	92	2:26.81 DEBORAH CAIN	35	2:49.78 CATHERIN KOHN	39	2:43.25 CATHY NEVILLE	35
2:27.54 KAREN BURTON	30	2:28.32 BETH HINES	35	2:50.06 DEBORAH CAIN	35	2:48.91 KATHERINE BRANCH	35
2:32.44 NANCY MITCHELL	30	400 M. FREE WOMEN 35-39		2:52.23 CATHY V NEVILLE	35	2:51.66 KRIS WINGENROTH	38
2:36.66 LISA MARLOW	31	4:33.08 SUSAN HALFACRE	88	2:52.45 LAURIE ROBINSON	35	2:55.28 DENISE EVERITT	39
2:39.86 SUZANNE M HEIM	34	4:54.47 MARY CHRIS CURL	35	50 M. BRST WOMEN 35-39		2:58.25 MELISSA BEATY	35
2:42.04 MARIA VELIKONJA	34	4:56.04 KATHERINE BRANCH	35	34.41 L WETZEL-OSBORNE	89	2:58.29 B.K. NICHOLS	35
2:42.20 PATTY STARKS	32	4:57.99 BARBARA CROWDER	35	36.34 KAREN MELICK	35	200 M. I.M. WOMEN 35-39	
2:43.98 STEPHANIE PORTER	30	5:00.87 SUSAN SKIFF	37	38.19 BRIDGET VACHE	37	2:38.82 LAURA VAL	90
2:47.43 COLLEEN DRISCOLL	33	5:01.57 CATHY NEVILLE	35	38.59 L.BENNETT-WILLIAM	36	2:38.97 KAREN FARNSWORTH	36
2:48.16 LESLIE HENSHAW	33	5:07.44 BETH HINES	35	38.96 KATIE MCNAMARA	37	2:40.60 MARY CHRIS CURL	35
2:49.83 LAURA WORDEN	34	5:08.13 DEBORAH CAIN	35	39.32 CAROLE SHIGAKI	37	2:40.84 SUSAN SKIFF	37
200 M. I.M. WOMEN 30-34		5:08.83 MARCIA S DUGGER	35	40.04 PAM DRAFTS	35	2:41.28 DONNA NEARY	36
2:29.22 S.NEILSON-BELL	88	5:09.41 D.OGIER-POLLARD	39	40.26 GAYLE BENTY	39	2:44.46 D.OGIER-POLLARD	39
2:31.15 ANDREA DEVUONO	30	5:14.39 SARAH EICHER	36	40.31 LINDA CHAPMAN	36	2:44.87 DEBORAH CAIN	35
2:31.81 ZENA HERRMANN	33	800 M. FREE WOMEN 35-39		40.33 MARA BOSSOW	39	2:45.20 MARYANN STEVENS	39
2:32.31 MARY ROEBUCK	30	9:24.54 SUSAN HALFACRE	88	40.50 CATHERINE KOHN	39	2:45.37 CATHERINE KOHN	39
2:33.51 JULIE SEARS	30	10:05.82 KAREN FARNSWORTH	36	100 M. BRST WOMEN 35-39		2:46.23 PATTY LANDERS	35
2:34.87 LEISSA MILLS	32	10:08.13 KATHERINE BRANCH	35	1:17.44 L WETZEL-OSBORNE	90	2:47.74 ARRIETTA CLAUSS	36
2:36.35 CATHY DROZDA	33	10:20.61 MARY CURL	35	1:20.93 KAREN MELICK	35	400 M. I.M. WOMEN 35-39	
2:36.72 SANDRA ZIEMER	32	10:26.85 BRIDGET VACHE	37	1:23.98 BRIDGET VACHE	37	5:34.47 KAREN FARNSWORTH	92
2:37.75 JANN GIRARD	32	10:29.32 CATHY NEVILLE	35	1:25.48 L.BENNETT-WILLIAM	36	5:34.47 KAREN FARNSWORTH	36
2:39.26 LAURI NICHOLS	32	10:34.86 D.OGIER-POLLARD	39	1:25.81 DONNA NEARY	36	5:35.68 MARY CHRIS CURL	35
2:42.93 BARBARA CROWDER	34	10:40.31 DEBBIE GAIN	35	1:26.55 MARY CHRIS CURL	35	5:46.29 SUSAN SKIFF	37
400 M. I.M. WOMEN 30-34		10:43.74 HEIDI ERNST	39	1:27.44 KAREN MCLARTY	35	5:49.68 BRIDGET VACHE	37
5:11.39 KAREN BURTON	92	10:44.65 MARCIA S DUGGER	35	1:27.44 KATIE MCNAMARA	37	5:52.10 CATHERINE KOHN	39
5:11.39 KAREN BURTON	30	10:51.79 SARAH EICHER	36	1:27.45 GAYLE BENTY	39	5:52.41 CATHY NEVILLE	35
5:24.58 ANDREA DEVUONO	30	1500 M. FREE WOMEN 35-39		1:27.78 CATHERIN KOHN	39	5:54.99 D.OGIER-POLLARD	39
5:29.57 JULIE SEARS	30	18:12.11 SUSAN HALFACRE	87	1:28.21 CAROLE SHIGAKI	37	6:02.76 DEBORAH CAIN	35
5:29.60 ZENA HERRMANN	32	19:32.02 KATHERINE BRANCH	35	200 M. BRST WOMEN 35-39		6:04.00 VICKY SANDBERG	35
5:30.42 K.PARKER-MEDLIN	30	20:01.84 CATHERINE CHAY	37	2:53.64 KAREN MELICK	92	6:04.24 CATHERINE CHAY	37
5:35.09 JANN GIRARD	32	20:07.52 BETH HINES	35	2:53.64 KAREN MELICK	35	*****	
5:39.04 DEBORAH ZIMIC	30	20:30.36 MARCIA S DUGGER	35	3:00.10 BRIDGET VACHE	37	50 M. FREE WOMEN 40-44	
5:40.18 NANCY MITCHELL	30	20:35.25 D.OGIER-POLLARD	39	3:02.84 ARRIETTA CLAUSS	36	28.05 LAURA VAL	92
5:42.37 ERIN BORDEN	30	21:10.36 CAROL A BREITER	36	3:05.12 DONNA NEARY	36	28.05 LAURA VAL	40
5:52.24 MARGUERITE MEYER	33	21:11.98 LINDA SULZBACH	37	3:05.48 GAYLE BENTY	39	30.47 F.WILLIAMSON	44
*****		21:19.31 MARY J SAAL	38	3:06.94 L.BENNETT-WILLIAM	36	30.68 TRACY ARNDT	40
50 M. FREE WOMEN 35-39		21:26.52 DENISE EVERITT	39	3:08.27 KAREN MCLARTY	35	30.74 CYNTHIA JONES	42
27.38 JACKI HIRSTY	90	21:56.59 KRIS WINGENROTH	38	3:09.75 CATHERIN KOHN	39	31.10 ANNE PAGE	44
28.78 K.TREBESINER	38	50 M. BACK WOMEN 35-39		3:09.77 D.OGIER-POLLARD	39	31.40 CELESTE MILLER	42
29.02 BONNIE ADAIR	39	32.39 LAURA VAL	90	3:11.53 LAURIE ROBINSON	35	31.63 DEBORAH W. WALKER	41
29.59 MARY HAMILTON	37	33.99 KAREN FARNSWORTH	36	50 M. FLY WOMEN 35-39		31.67 PAULA PORTER	41
29.64 JO MOORE	37	33.99 PATTY LANDERS	35	29.27 SUSAN HALFACRE	88	31.81 DOT MUNGER	40
29.66 PAM DRAFTS	35	34.86 CAROLE SHIGAKI	37	31.07 BARBARA CROWDER	35	31.85 FRAN HARE	42
29.92 MORRI SPANG	35	35.37 LESLIE A DEFOE	35	31.16 TAMI BENNETT	35	100 M. FREE WOMEN 40-44	
30.02 KAREN HOGAN	38	36.27 PATRICIA MCKAY	37	31.37 HELEN RYAN	36	1:02.99 LAURA VAL	92
30.09 MARCIA S DUGGER	35	36.44 VICKY SANDBERG	35	31.44 KAREN HOGAN	38	1:02.99 LAURA B VAL	40
30.09 TERRI HOPPENRATH	35	36.45 LAURIE ROBINSON	35	31.68 BRIDGET VACHE	37	1:05.93 DOT MUNGER	41
30.09 TAMI BENNETT	35	36.64 MELISSA BEATY	35	31.77 K.TREBESINER	38	1:07.09 BARBARA DUNBAR	43
100 M. FREE WOMEN 35-39		36.69 SUSAN BLATTNER	35	31.96 SUSAN SKIFF	37	1:07.42 CELESTE MILLER	42
1:00.25 SUSAN HALFACRE	88	36.89 MARY A HAMILTON	37	32.21 DONNA NEARY	36	1:08.43 CYNTHIA JONES	42
1:02.59 K.TREBESINER	38	100 M. BACK WOMEN 35-39		32.79 DEBBIE FLANSBURG	36	1:09.08 JONELLE SCHMIDT	41
1:03.85 BARBARA CROWDER	35	1:10.94 LAURA VAL	89	33.03 MORRI SPANG	35	1:09.27 F.WILLIAMSON	44
1:05.42 JO MOORE	37	1:12.80 KAREN FARNSWORTH	36	100 M. FLY WOMEN 35-39		1:10.70 TRACY ARNDT	40
1:05.78 HELEN RYAN	36	1:13.19 PATTY LANDERS	35	29.27 SUSAN HALFACRE	88	1:10.77 ANNE PAGE	44
1:05.82 TERRI HOPPENRATH	35	1:14.96 KATHERINE BRANCH	35	31.07 BARBARA CROWDER	35	1:11.10 ANNE LYTTLE	44
1:06.64 KAREN HOGAN	38	1:16.19 MARY ANN STEVENS	39	31.16 TAMI BENNETT	35	200 M. FREE WOMEN 40-44	
1:06.65 MARY HAMILTON	37	1:16.77 HELEN RYAN	36	1:10.38 SUSAN SKIFF	37	2:21.09 DOT MUNGER	91
1:06.70 MORRI SPANG	35	1:17.19 CATHERIN KOHN	39	1:10.78 BARBARA CROWDER	35	2:22.66 BARBARA DUNBAR	43
1:06.93 MARCIA S DUGGER	35	1:17.32 MARY CURL	35	1:10.94 DEBBIE FLANSBURG	36	2:22.90 DOT MUNGER	41
				1:11.12 HELEN RYAN	36		

TOP TEN

Long Course Meters

2:25.63 CELESTE MILLER	42	2:45.63 JUDY STEFANICK	41	200 M. FLY WOMEN 40-44	2:46.15 LINDA MCHENRY	45	
2:28.99 JONELLE SCHMIDT	41	2:46.56 BARB GUNDRED	40	2:33.51 BARBARA DUNBAR	89	2:48.67 SUZANNE DILLS	47
2:29.49 F.WILLIAMSON	44	2:51.91 JAN PESAVENTO	40	2:37.46 BARBARA DUNBAR	43	2:48.86 JANE KATZ	49
2:33.04 CYNTHIA JONES	42	2:52.59 JONELLE SCHMIDT	41	2:50.03 STEPHANIE WALSH	42	400 M. FREE WOMEN 45-49	
2:33.49 DEBORAH W. WALKER	41	2:59.78 STEPHANIE WALSH	42	2:52.48 TERRY GAULT	41	5:08.67 ARDETH MUELLER	87
2:34.12 ANNE LYTTLE	44	3:02.56 JUDY BELFORD	43	3:02.77 JUDY K. STEFANICK	41	5:29.53 SALLY A. DILLON	45
2:34.64 GWEN DEELY	42	3:03.40 GWEN DEELY	42	3:11.88 CATHY MANCINO	42	5:29.96 JANE KATZ	49
2:34.99 MARCIA BARRY	43	3:04.24 CHRISTINE ZIMMET	44	3:12.28 S.LEE-SHERIDAN	40	5:30.21 SHARON WISE	45
400 M. FREE WOMEN 40-44		3:04.44 KATHRINE CASEY	43	3:13.61 CATHERINE QUILL	42	5:36.33 LUCY JOHNSON	45
4:54.49 BARBARA DUNBAR	90	3:04.68 S.LEE-SHERIDAN	40	3:17.43 CHRISTINE ZIMMET	44	5:40.14 MARCY BULLOCK	49
4:57.09 BARBARA G DUNBAR	43	50 M. BRST WOMEN 40-44		3:19.47 DARLENE STALEY	42	5:40.14 MARCY BULLOCK	49
5:05.69 DOT MUNGER	41	37.02 A.WRIGHT-BELKNAP	92	3:21.07 VICKI E SMERDON	42	5:51.47 SUZANNE DILLS	47
5:07.82 CELESTE MILLER	42	37.02 A.WRIGHT-BELKNAP	41	200 M. I.M. WOMEN 40-44		6:09.05 PAT WHITE MALEY	48
5:08.73 MONICA HUNSCHER	44	38.16 DEBORAH W. WALKER	41	2:43.49 BARBARA DUNBAR	90	6:10.46 MARY ANDERSON	49
5:20.40 SHIRLEY LOFTUS	40	40.04 CHRISTIE SLIMAK	44	2:47.99 KRISSEY MACCUDRY	40	6:14.43 VICKI BUCCINO	46
5:20.67 SHERRY KITTRELL	40	40.19 DALE BARNHARD	44	2:49.15 BARBARA G DUNBAR	43	6:16.76 RUTH BENNETT	45
5:21.08 MARCIA BARRY	43	41.05 LYNN BELL	42	2:50.51 CELESTE MILLER	42	800 M. FREE WOMEN 45-49	
5:21.61 GWEN DEELY	42	41.14 JANET GETTLING	44	2:50.67 BARB GUNDRED	40	10:48.41 ARDETH MUELLER	87
5:22.61 TERRY GAULT	41	41.24 KATHRINE CASEY	43	2:50.99 JONELLE SCHMIDT	41	11:19.29 JANE KATZ	49
5:30.92 VALERIE FISHER	41	41.45 MARY LIOTTA	40	2:51.46 STEPHANIE WALSH	42	11:21.01 SALLY A. DILLON	45
800 M. FREE WOMEN 40-44		41.56 DOT MUNGER	40	2:53.45 JUDY STEFANICK	41	11:38.48 ANNE SVANSON	45
10:07.92 BARBARA DUNBAR	91	41.58 MEEGAN WILSON	43	2:56.21 SUSI CHANDLER	41	11:49.72 MARCY BULLOCK	49
10:11.23 BARBARA G DUNBAR	43	100 M. BRST WOMEN 40-44		3:01.22 KATHRINE CASEY	44	11:51.00 LUCY JOHNSON	45
10:24.32 DOT MUNGER	41	1:21.73 DEBORAH WALKER	91	3:03.81 MELISSA HANSON	40	12:22.30 CAROLYN KENT	46
10:31.62 CELESTE MILLER	42	1:23.63 A.WRIGHT-BELKNAP	41	400 M. I.M. WOMEN 40-44		12:28.96 PAT WHITE MALEY	48
11:05.83 BARB GUNDRED	40	1:24.08 DEBORAH W. WALKER	41	5:45.58 BARBARA DUNBAR	91	12:34.56 VICKI BUCCINO	46
11:07.62 MARCIA BARRY	43	1:24.14 DOT MUNGER	41	5:50.44 BARBARA DUNBAR	43	12:39.66 MARY POHLMANN	47
11:13.59 SHERRY KITTRELL	40	1:24.73 KRISSEY MACCUDRY	40	6:00.06 KRISSEY MACCUDRY	40	13:06.42 LINDA TEPE	45
11:16.45 SUSI CHANDLER	41	1:28.33 LYNN BELL	42	6:06.94 STEPHANIE WALSH	42	1500 M. FREE WOMEN 45-49	
11:21.95 CYNTHIA JONES	42	1:29.50 PAULA PORTER	41	6:08.83 JUDY STEFANICK	41	21:08.30 ARDETH MUELLER	87
11:23.81 GWEN DEELY	42	1:30.22 DALE BARNHARD	44	6:20.33 SUSI CHANDLER	41	21:44.23 SALLY A DILLON	45
11:26.26 F.WILLIAMSON	44	1:30.52 MEEGAN WILSON	43	6:27.00 S.LEE-SHERIDAN	40	22:38.18 ANN SVANSON	46
1500 M. FREE WOMEN 40-44		1:30.97 JAN PESAVENTO	40	6:33.21 MOLLY MYERS	42	22:47.72 SUZANNE DILLS	47
19:00.40 BARBARA DUNBAR	92	1:31.01 CHRISTIE SLIMAK	44	6:33.90 KATHRINE CASEY	43	23:34.38 PAT WHITE MALEY	49
19:00.40 BARBARA G DUNBAR	43	200 M. BRST WOMEN 40-44		6:35.48 LAURIE M. GRUBBS	40	24:06.31 MARY POHLMANN	47
20:40.19 CELESTE MILLER	42	3:01.46 DEBORAH WALKER	91	6:38.45 CATHY MANCINO	42	24:14.99 MARY ANDERSON	49
20:56.04 TERRY GAULT	41	3:04.49 A.WRIGHT-BELKNAP	41	*****		24:37.26 VICKI BUCCINO	46
21:08.79 SHERRY KITTRELL	40	3:07.09 DEBORAH W. WALKER	41	50 M. FREE WOMEN 45-49		24:57.79 KATHY CONTE	45
21:21.50 VALERIE FISHER	41	3:14.55 LYNN BELL	42	29.08 ARDETH MUELLER	87	25:11.45 PAMELA HIMSTREET	48
22:04.20 CATHY MANCINO	42	3:19.46 SUSI CHANDLER	41	30.48 SHARON WISE	45	25:20.20 NANCY KIRKENDALL	49
22:32.85 MEL LEBSACK	44	3:19.56 MEEGAN WILSON	43	30.56 CAROLYN BOAK	47	50 M. BACK WOMEN 45-49	
22:43.44 KIM SHOCKLEY	40	3:20.69 DALE BARNHARD	44	30.79 LUCY JOHNSON	45	37.43 MIMI FRANK	92
23:05.49 KATHRINE CASEY	43	3:20.90 CAROL COWEN	40	31.36 JUDY REED	48	37.43 MIMI FRANK	45
23:28.84 CYNTHIA JONES	42	3:24.16 SUZANNE COOPER	42	31.47 LINDA MCHENRY	45	39.16 JEANNIE MITCHELL	45
50 M. BACK WOMEN 40-44		3:25.04 JAN PESAVENTO	40	31.59 IRENE DAVID	48	39.28 BETTY BENNETT	49
32.42 LAURA VAL	92	3:26.59 LAURIE M. GRUBBS	40	31.72 JEAN HENDERSON	45	39.42 MARY POHLMANN	47
32.42 LAURA VAL	40	50 M. FLY WOMEN 40-44		32.27 MARCY BULLOCK	49	39.74 PEGGI WIRTH	47
34.49 JUDY STEFANICK	41	30.13 LAURA VAL	92	32.27 SALLY DILLON	45	39.95 LUCY JOHNSON	45
36.55 JAN PESAVENTO	40	30.13 LAURA VAL	40	32.82 MIMI FRANK	45	40.41 JUDY REED	48
37.16 REVA HORD	43	33.08 KRISSEY MACCUDRY	40	100 M. FREE WOMEN 45-49		40.82 JANE KATZ	49
38.22 SUZANNE COOPER	42	33.49 BARBARA DUNBAR	43	1:05.44 ARDETH MUELLER	87	41.81 LINDA TEPE	45
38.57 PETRA ANDRAS	41	34.13 JUDY LEE	42	1:07.98 SHARON WISE	45	42.08 SUSAN COOLIDGE	45
38.78 JUDY BELFORD	43	34.21 CYNTHIA JONES	42	1:08.17 CAROLYN BOAK	47	100 M. BACK WOMEN 45-49	
39.02 DEBORAH W. WALKER	41	34.40 STEPHANIE WALSH	42	1:10.17 SALLY A. DILLON	45	1:21.04 BETSY JORDAN	82
39.39 STEPHANIE WALSH	42	34.44 JUDY K. STEFANICK	41	1:10.71 LUCY JOHNSON	45	1:23.41 LUCY JOHNSON	45
39.71 JAMIE STEWART	43	34.45 LYNN BELL	42	1:11.35 JUDY REED	48	1:24.21 SHERRY PUTHOFF	45
100 M. BACK WOMEN 40-44		34.76 TERRY GAULT	41	1:11.49 MARCY BULLOCK	49	1:24.75 MIMI FRANK	45
1:11.03 LAURA VAL	92	34.81 JANET GETTLING	44	1:11.70 LINDA MCHENRY	45	1:25.27 MARY POHLMANN	47
1:11.03 LAURA VAL	40	100 M. FLY WOMEN 40-44		1:14.35 JEAN HENDERSON	45	1:25.36 JEANNIE MITCHELL	45
1:16.47 JUDY STEFANICK	41	1:06.27 LAURA VAL	92	1:15.87 JEANNIE MITCHELL	45	1:25.85 BETTY BENNETT	49
1:18.65 BARB GUNDRED	40	1:06.27 LAURA VAL	40	1:16.93 TRUDY ASHWORTH	45	1:27.52 LINDA MCHENRY	45
1:19.52 JAN PESAVENTO	40	1:12.83 BARBARA DUNBAR	43	200 M. FREE WOMEN 45-49		1:28.54 JANE KATZ	49
1:22.13 JONELLE SCHMIDT	41	1:13.20 KRISSEY MACCUDRY	40	2:24.24 ARDETH MUELLER	87	1:34.45 JANICE LINVILLE	45
1:25.08 PETRA ANDRAS	41	1:16.08 STEPHANIE WALSH	42	2:30.40 CAROLYN BOAK	47	1:34.71 SUSAN COOLIDGE	45
1:26.16 CHRISTINE ZIMMET	44	1:16.43 JUDY STEFANICK	41	2:32.88 LUCY JOHNSON	45	100 M. BACK WOMEN 45-49	
1:26.43 DEBORAH W. WALKER	41	1:17.43 TERRY GAULT	41	2:33.26 SHARON WISE	45	2:56.28 ARDETH MUELLER	86
1:26.80 KATHRINE CASEY	43	1:17.72 BARB GUNDRED	40	2:33.50 SALLY A. DILLON	45	3:00.95 MIMI FRANK	45
1:27.49 MARJORIE MEEK	40	1:17.88 SUSI CHANDLER	41	2:40.30 JACKIE MARR	49	3:02.27 MARY POHLMANN	47
200 M. BACK WOMEN 40-44		1:21.39 JANET GETTLING	44	2:40.86 MARCY BULLOCK	49	3:02.63 JANE KATZ	49
2:45.63 JUDY STEFANICK	92	1:22.30 F.WILLIAMSON	44	2:45.75 JUDY REED	48	3:05.10 SHERRY PUTHOFF	45
						3:06.29 BETTY BENNETT	49

TOP TEN

Long Course Meters

3:08.96	JEANNIE MITCHELL	45	3:16.79	IRENE DAVID	48	5:20.09	ARDETH MUELLER	51	50 M. BRST WOMEN 50-54		
3:09.80	LINDA MCHENRY	45	3:21.50	JEAN WOOD	45	5:40.10	NANCY RIDOUT	50	40.22	JAYNE BRUNER	86
3:10.51	JACKIE MARR	49	3:32.45	TERRI FRANKLIN	46	5:46.20	BARBARA FRID	50	40.92	JOANN LEILICH	53
3:10.67	CAROLYN F BOAK	47	3:43.05	LINDA TEPE	45	5:50.12	SARAH L BROUGHER	50	43.48	ROS BIRD	50
3:14.28	CAROLYN KENT	46	3:51.54	JEANNIE MITCHELL	45	5:50.15	JAYNE M. LAMBKE	52	43.70	NANCY J RIDOUT	50
50 M. BRST WOMEN 45-49			4:01.64	PAT WHITE MALEY	48	6:16.70	CAROL JEWELL	50	44.09	BARBARA FRID	50
39.20	CAROLYN BOAK	92	4:03.82	VICKI BUCCINO	46	6:19.62	SUSAN LIVINGSTON	54	44.30	BETSY DURRANT	50
39.20	CAROLYN BOAK	47	200 M. I.M. WOMEN 45-49			6:26.82	CAROL REMEN	53	44.65	MARGIT JEBE	54
42.89	LYNN CARTEE	45	2:46.91	ARDETH MUELLER	87	6:32.79	BETSY DURRANT	50	45.08	JUDY DECKER	50
42.97	J.MURPHY-SHERMAN	48	2:49.83	CAROLYN BOAK	47	6:49.69	SANDY ETNYRE	50	45.16	CAROL M LAIRD	50
43.10	BERTE HACKETT	47	2:56.33	LUCY JOHNSON	45	800 M. FREE WOMEN 50-54			46.11	RAQUEL BENTOLILA	52
43.42	SUSAN COOLIDGE	45	2:57.33	SHERRY PUTHOFF	45	10:58.47	ARDETH MUELLER	91	46.31	MARYLOU HAUGLAND	53
43.52	TRUDY ASHWORTH	45	3:02.16	MIMI FRANK	45	11:51.30	BARBARA FRID	50	100 M. BRST WOMEN 50-54		
43.80	SALLY A DILLON	45	3:03.56	JACKIE MARR	49	12:06.04	NANCY J RIDOUT	50	1:28.83	JOANN LEILICH	90
43.92	NANCY BROOKS	49	3:08.14	LYNN CARTEE	45	12:11.67	SARAH L BROUGHER	50	1:31.87	JOANN LEILICH	53
44.23	JAN PANCAKE	46	3:09.19	J.MURPHY-SHERMAN	48	12:29.70	SPERRY RADEMAKER	52	1:37.00	CAROL M LAIRD	50
44.59	SHIRLEY KING	45	3:10.69	SUZANNE DILLS	47	12:40.43	CAROL JEWELL	50	1:37.31	BARBARA FRID	50
100 M. BRST WOMEN 45-49			3:11.23	BETTY BENNETT	49	13:17.87	SUSAN LIVINGSTON	54	1:37.58	MARGIT JEBE	54
1:26.28	CAROLYN BOAK	92	3:14.21	JEAN WOOD	45	13:45.07	SANDY ETNYRE	50	1:40.09	BETSY DURRANT	50
1:26.28	CAROLYN BOAK	47	400 M. I.M. WOMEN 45-49			13:56.65	ROBERTA BOBERSKI	52	1:40.45	ROS BIRD	50
1:33.23	SALLY A. DILLON	45	5:54.98	ARDETH MUELLER	87	14:08.33	SUSAN SPRINGER	53	1:41.78	JUDY DECKER	50
1:35.60	JAN PANCAKE	46	6:13.98	CAROLYN BOAK	47	14:35.65	MARY ANN McCLAIN	51	1:42.78	JUDY HARRISON	52
1:35.74	LYNN CARTEE	45	6:32.03	CAROLYN KENT	46	1500 M. FREE WOMEN 50-54			1:45.07	FRANCESCA DRUM	50
1:36.14	J.MURPHY-SHERMAN	48	6:34.49	JACKIE MARR	49	21:02.46	ARDETH MUELLER	91	1:49.06	DAWN STROUPE	54
1:37.81	SHIRLEY KING	45	6:45.58	JEAN WOOD	45	21:14.34	ARDETH MUELLER	51	200 M. BRST WOMEN 50-54		
1:37.88	NANCY BROOKS	49	6:48.07	BETTY BENNETT	49	23:33.03	CAROL JEWELL	50	3:15.76	JOANN LEILICH	89
1:38.12	SUSAN COOLIDGE	45	6:52.04	SUZANNE DILLS	47	24:16.33	JAYNE M. LAMBKE	52	3:19.66	JOANN LEILICH	53
1:38.74	BERTE HACKETT	47	6:59.16	MARY POHLMANN	47	26:19.96	ROBERTA BOBERSKI	52	3:28.64	CAROL M LAIRD	50
1:39.59	TRUDY ASHWORTH	45	7:17.51	LINDA TEPE	45	26:21.70	JANE OBERG	54	3:30.16	MARGIT JEBE	54
200 M. BRST WOMEN 45-49			7:18.38	TERRI FRANKLIN	46	26:27.38	SUSAN SPRINGER	53	3:31.89	BARBARA FRID	50
3:09.19	CAROLYN BOAK	92	7:20.14	JANICE LINVILLE	45	27:07.44	SANDY ETNYRE	50	3:36.99	MARYLOU HAUGLAND	53
3:09.19	CAROLYN BOAK	47	*****			27:27.72	NANCY LOWDEN	50	3:38.72	BETSY DURRANT	50
3:25.24	JAN PANCAKE	46	50 M. FREE WOMEN 50-54			27:32.31	ELIZABETH JOHNSON	53	3:39.95	JUDY DECKER	50
3:26.00	J.MURPHY-SHERMAN	48	30.04	ARDETH MUELLER	92	27:50.69	ANN GINDROZ	54	3:43.52	FRANCESCA DRUM	50
3:30.56	LYNN CARTEE	45	30.04	ARDETH MUELLER	51	50 M. BACK WOMEN 50-54			3:48.55	JUDY HARRISON	52
3:33.38	SHIRLEY KING	45	30.51	NANCY RIDOUT	50	37.62	BETSY JORDAN	91	3:52.95	DAWN STROUPE	54
3:34.56	JEAN WOOD	45	32.83	JANE NICHOLS	50	40.24	BARBARA FRID	50	50 M. FLY WOMEN 50-54		
3:35.79	NANCY BROOKS	49	33.62	BARBARA FRID	50	41.07	SARAH L BROUGHER	50	32.76	ARDETH MUELLER	91
3:37.69	DONNA KOCH	46	34.31	ANGELA KONIG	54	41.83	CAROL M LAIRD	50	34.23	NANCY RIDOUT	50
3:38.45	PAMELA HIMSTREET	48	34.65	JAYNE M. LAMBKE	52	42.73	JUDY DECKER	50	34.29	SARAH L BROUGHER	50
3:39.28	MAGI HARRIS	46	36.00	ROS BIRD	50	42.98	JOY ROGERS	50	35.70	BARBARA FRID	50
50 M. FLY WOMEN 45-49			36.56	SUSAN BRADLEY-COX	54	43.28	JAYNE LAMBKE	52	35.84	JANE NICHOLS	50
30.74	ARDETH MUELLER	87	36.67	BETTY DUGAN	51	43.49	BETSY DURRANT	50	38.72	JAYNE M. LAMBKE	52
33.53	SHARON WISE	45	36.84	CAROL HANEY	52	43.74	ANGELA KONIG	54	42.60	CAROL M LAIRD	50
33.64	LUCY JOHNSON	45	100 M. FREE WOMEN 50-54			44.09	CEIL BLACKWELL	51	43.27	JANE OBERG	54
34.54	SHERRY PUTHOFF	45	1:07.42	ARDETH MUELLER	92	44.56	CAROL REMEN	53	43.84	SUSAN LIVINGSTON	53
34.67	JUDY REED	48	1:07.42	ARDETH MUELLER	51	100 M. BACK WOMEN 50-54			44.67	SUSAN BRADLEY-COX	54
34.92	IRENE DAVID	48	1:09.68	NANCY RIDOUT	50	1:23.29	BETSY JORDAN	91	44.91	SUSAN RITTENHOUSE	54
34.98	CAROLYN F BOAK	47	1:13.24	JANE NICHOLS	50	1:27.39	SARAH L BROUGHER	50	100 M. FLY WOMEN 50-54		
36.24	PEGGI WIRTH	47	1:15.67	ANGELA KONIG	54	1:27.83	BARBARA FRID	50	1:15.47	ARDETH MUELLER	91
36.51	CAROLYN KENT	46	1:16.28	JAYNE M. LAMBKE	52	1:32.64	JUDY DECKER	50	1:17.55	ARDETH MUELLER	51
36.84	LINDA MCHENRY	45	1:16.66	BARBARA FRID	50	1:33.99	ANGELA KONIG	54	1:20.50	NANCY RIDOUT	50
37.62	MARCY BULLOCK	49	1:20.30	SUSAN BRADLEY-COX	54	1:34.40	CAROL M LAIRD	50	1:25.07	JANE NICHOLS	50
100 M. FLY WOMEN 45-49			1:24.53	MARY ANN McCLAIN	51	1:34.79	BETSY DURRANT	50	1:31.56	JAYNE M. LAMBKE	52
1:12.67	ARDETH MUELLER	87	1:25.62	BETTY DUGAN	51	1:36.60	JAYNE LAMBKE	52	1:34.47	CAROL JEWELL	50
1:17.31	SHERRY PUTHOFF	45	1:26.05	JOY ROGERS	50	1:36.92	CEIL BLACKWELL	51	1:40.00	SUSAN LIVINGSTON	53
1:17.31	LUCY JOHNSON	45	200 M. FREE WOMEN 50-54			1:37.49	SUSAN LIVINGSTON	54	1:42.52	MARGIT JEBE	54
1:23.30	IRENE DAVID	48	2:32.25	ARDETH MUELLER	91	1:40.35	SUZY CARLSON	50	1:43.84	JANE OBERG	54
1:23.80	CAROLYN KENT	46	2:33.39	ARDETH MUELLER	51	200 M. BACK WOMEN 50-54			1:49.22	SUSAN C ANSON	52
1:25.36	JACKIE MARR	49	2:36.90	NANCY RIDOUT	50	3:01.07	BETSY JORDAN	87	1:52.43	CAROL HANEY	52
1:34.10	TERRI FRANKLIN	46	2:46.99	JANE NICHOLS	50	3:09.07	SARAH L BROUGHER	50	200 M. FLY WOMEN 50-54		
1:35.43	LINDA TEPE	45	2:47.93	JAYNE M. LAMBKE	52	3:18.01	JUDY DECKER	50	2:49.53	ARDETH MUELLER	91
1:44.70	PAMELA HIMSTREET	48	2:48.02	BARBARA FRID	50	3:20.29	BARBARA FRID	50	2:52.71	ARDETH MUELLER	51
1:46.23	VICKI BUCCINO	46	2:53.77	ANGELA KONIG	54	3:20.86	BETSY DURRANT	50	3:30.48	JAYNE M. LAMBKE	52
2:02.59	PATRICIA BURBANK	45	3:05.91	SUSAN LIVINGSTON	53	3:21.20	NANCY J RIDOUT	50	3:42.44	CAROL JEWELL	50
200 M. FLY WOMEN 45-49			3:06.69	CAROL REMEN	53	3:23.96	CAROL M LAIRD	50	3:43.84	MARGIT JEBE	54
2:44.10	ARDETH MUELLER	87	3:06.95	BETSY DURRANT	50	3:26.40	SUZY CARLSON	50	4:01.88	SUSAN C ANSON	51
3:10.88	JACKIE MARR	49	3:10.79	MARY ANN McCLAIN	51	3:27.98	SUSAN LIVINGSTON	53	4:04.40	ROBERTA BOBERSKI	52
3:12.46	CAROLYN KENT	46	400 M. FREE WOMEN 50-54			3:32.47	JAYNE M. LAMBKE	52	4:10.77	DAWN STROUPE	54
3:15.74	JANE KATZ	49	5:16.62	ARDETH MUELLER	91	3:33.82	CEIL BLACKWELL	51	4:17.34	JEANNINE E OLSON	52

TOP TEN Long Course Meters

4:44.47	ANN GINDROZ	54	6:28.73	ANNE MCGUIRE	57	45.66	BEVERLY MYERS	57	3:09.94	BETSY T. JORDAN	55	
4:47.44	CHAYA AMIAD	54	6:32.71	JEANNE LITTLE	55	46.99	MARGIE HEINEMAN	55	3:25.43	BEVERLY MYERS	57	
	200 M. I.M. WOMEN 50-54		6:37.69	BARBARA ZAREMSKI	55	47.17	CAROL REINKE	55	3:28.77	ANNE MCGUIRE	57	
2:54.57	ARDETH MUELLER	91	6:40.67	JAYNE BRUNER	58	47.77	YOLANDE HOSS	59	3:34.28	HELEN BUSS	56	
3:09.67	NANCY J RIDOUT	50	7:03.47	PAT TULLMAN	55	47.84	BETSY JORDAN	55	3:36.12	BARBARA ZAREMSKI	55	
3:15.20	SPERRY RADEMAKER	52		800 M. FREE WOMEN 55-59		49.96	J.G. PIPER	55	3:39.26	DORIS KLITZKE	57	
3:20.38	JUDY DECKER	90	11:30.97	LAVELLE STOINOFF	88	51.54	BARBARA JORDAN	55	3:41.50	BARBARA CALLISON	59	
3:20.93	JAYNE LAMBKE	52	11:37.10	LAVELLE STOINOFF	59		100 M. BRST WOMEN 55-59		3:43.04	CAROL REINKE	55	
3:28.58	SUSAN LIVINGSTON	53	12:09.10	BETSY T. JORDAN	55	1:29.88	JAYNE BRUNER	92	3:46.13	JOHNNIE DETRICK	56	
3:28.93	MARGIT JEBE	54	12:24.37	HELEN BUSS	56	1:29.88	JAYNE BRUNER	58		400 M. I.M. WOMEN 55-59		
3:31.61	SUZY CARLSON	50	13:11.34	BARBARA JORDAN	55	1:42.52	ANNE MCGUIRE	57	6:42.05	GAIL ROPER	85	
3:38.30	JAYNE OBERG	54	13:33.63	BARBARA ZAREMSKI	55	1:43.47	BEVERLY MYERS	57	6:47.64	BETSY T. JORDAN	55	
3:38.58	CEIL BLACKWELL	51	13:56.81	ANNE MCGUIRE	57	1:43.52	DIANE STOWELL	58	7:20.58	RONNIE KAMPHAUSEN	58	
3:40.64	ROBERTA BOBERSKI	52	14:24.19	DONNA MONROE	58	1:43.59	LAVELLE STOINOFF	59	7:23.54	ANNE MCGUIRE	57	
	400 M. I.M. WOMEN 50-54		14:38.76	ELIZABET MOORE	58	1:44.97	JOHNNIE DETRICK	56	7:30.45	BARBARA ZAREMSKI	55	
6:12.08	ARDETH MUELLER	92	14:39.46	MARYLEE MEDVE	56	1:46.30	CAROL REINKE	55	7:55.09	BARBARA CALLISON	59	
6:12.08	ARDETH MUELLER	51	14:40.09	CAROL LOWENGRUB	55	1:46.99	YOLANDE HOSS	59	8:15.73	DONNA EDELBAUM	59	
6:45.47	NANCY J RIDOUT	50		1500 M. FREE WOMEN 55-59		1:47.54	MARGIE HEINEMAN	55	8:27.59	DONNA MONROE	58	
6:54.88	SPERRY RADEMAKER	52	22:18.91	LAVELLE STOINOFF	88	1:49.86	J.G. PIPER	55	8:50.25	ANNIE ATWOOD	57	
7:09.82	JAYNE LAMBKE	52	22:39.80	LAVELLE STOINOFF	59		200 M. BRST WOMEN 55-59		9:27.54	SHIRLEY MCFARLAND	57	
7:11.08	JUDY DECKER	50	23:28.71	HELEN BUSS	56	3:27.89	JAYNE BRUNER	91	10:02.87	JOYCE VOIT	57	
7:19.86	SUSAN LIVINGSTON	53	23:40.21	BETSY JORDAN	55	3:34.28	LAVELLE STOINOFF	59		*****		
7:26.31	SUZY CARLSON	50	26:26.00	BARBARA ZAREMSKI	55	3:38.53	DIANE STOWELL	57		50 M. FREE WOMEN 60-64		
7:40.32	ROBERTA BOBERSKI	52	26:28.38	ANNE MCGUIRE	57	3:38.71	ANNE MCGUIRE	57	35.08	DOROTHY DONNELLY	85	
7:51.15	JANE OBERG	54	26:29.85	BARBARA S JORDAN	55	3:39.84	JAYNE BRUNER	58	35.24	MARGARET TIMMINS	62	
7:53.60	MARYLOU SCHULTZ	52	27:35.58	DONNA MONROE	58	3:47.53	JOHNNIE DETRICK	56	37.34	DIANE REED	61	
	*****		28:02.16	ELIZABETH MOORE	58	3:47.56	CAROL REINKE	55	37.43	GAIL ROPER	63	
	50 M. FREE WOMEN 55-59		28:10.75	NADINE WHITEHALL	58	3:49.04	BETSY JORDAN	55	39.00	KATHIE THEIS	60	
	32.59	JAYNE BRUNER	91	28:16.91	MARY ANN STONE	58	3:52.02	BARBARA ZAREMSKI	39.56	JACQUELINE DUNLOP	61	
	32.71	JAYNE BRUNER	58		50 M. BACK WOMEN 55-59		3:52.56	MARGIE HEINEMAN	39.95	CAROL FERGUSON	60	
	34.83	JEANNE LITTLE	55	37.30	BETSY JORDAN	92	3:54.78	YOLANDE HOSS	40.28	BETTY BARABASH	64	
	34.86	DIANE STOWELL	57	37.30	BETSY T. JORDAN	55		50 M. FLY WOMEN 55-59	40.69	EDIE GRUENDER	63	
	34.89	JOHNNIE DETRICK	56	41.04	JAYNE BRUNER	58	35.29	GAIL ROPER	41.12	ANN M PISCIOTTA	61	
	34.98	BETSY JORDAN	55	41.79	BARBARA JORDAN	55	36.28	JAYNE BRUNER	42.73	ELLEN VOSE	62	
	35.34	BARBARA ZAREMSKI	55	42.96	BEVERLY MYERS	57	38.93	BETSY T JORDAN		100 M. FREE WOMEN 60-64		
	36.13	LAVELLE STOINOFF	59	44.17	LAVELLE STOINOFF	59	39.92	JEANNE LITTLE	1:20.10	DOROTHY RESSIGUIE	81	
	36.92	RONNIE KAMPHAUSEN	58	45.24	RONNIE KAMPHAUSEN	58	41.76	BEVERLY MYERS	1:22.07	ROXANNE MOTTER	60	
	37.23	DORIS KLITZKE	57	45.24	DORIS KLITZKE	57	43.00	DORIS KLITZKE	1:23.00	DIANE REED	61	
	37.86	MARDELLE SHAGOOL	56	45.25	ANN CHAMP	57	43.22	ANNE MCGUIRE	1:23.79	MARGARET TIMMINS	62	
	100 M. FREE WOMEN 55-59		46.32	SUZANNE ROBBINS	58	43.73	BARBARA CALLISON	59	1:29.33	ANN M PISCIOTTA	61	
	1:12.34	JAYNE BRUNER	89	46.75	BARBARA HANSEN	55	46.41	NADINE WHITEHALL	1:30.38	BETTY BARABASH	64	
	1:18.68	JAYNE BRUNER	58		100 M. BACK WOMEN 55-59		46.50	MARGIE HEINEMAN	1:31.00	CAROL FERGUSON	60	
	1:19.14	BETSY T JORDAN	55	1:21.42	BETSY JORDAN	92	46.62	PAT TULLMAN	1:32.15	EDIE GRUENDER	63	
	1:21.09	JEANNE LITTLE	55	1:21.42	BETSY T. JORDAN	55		100 M. FLY WOMEN 55-59	1:33.81	GAY COLLINS	62	
	1:21.46	DIANE STOWELL	58	1:32.99	BARBARA JORDAN	55	1:27.49	GAIL ROPER	1:34.42	ELLEN VOSE	62	
	1:21.95	JOHNNIE DETRICK	56	1:33.14	LAVELLE STOINOFF	59	1:28.48	JAYNE BRUNER	1:35.50	KATHIE THEIS	60	
	1:23.28	BARBARA ZAREMSKI	55	1:35.17	BEVERLY MYERS	57	1:30.91	BETSY JORDAN		200 M. FREE WOMEN 60-64		
	1:23.90	MARDELLE SHAGOOL	56	1:38.58	ANN CHAMP	57	1:36.55	ANNE MCGUIRE	2:50.03	CLARA WALKER	88	
	1:25.48	HELEN BUSS	56	1:42.02	BARBARA ZAREMSKI	55	1:42.95	JEANNE LITTLE	3:02.84	ROXANNE MOTTER	60	
	1:27.14	BEVERLY MYERS	55	1:44.43	DIANE STOWELL	58	1:44.21	DORIS KLITZKE	3:09.58	DIANE REED	61	
	1:27.29	SUSAN DEARBORN	55	1:47.41	SUZANNE ROBBINS	58	1:52.68	BARBARA CALLISON	3:10.39	MARGARET TIMMINS	62	
	200 M. FREE WOMEN 55-59		1:47.51	BARBARA HANSEN	55	1:52.81	BARBARA ZAREMSKI	55	3:15.15	ANN M PISCIOTTA	61	
	2:42.04	LAVELLE STOINOFF	88	1:47.65	BARBARA CALLISON	59	1:58.43	PEGGY WIRT	3:19.48	GAIL ROPER	63	
	2:43.50	LAVELLE STOINOFF	59		200 M. BACK WOMEN 55-59		1:59.91	SHIRLEY BEHELER	3:20.12	BETTY BARABASH	64	
	2:48.69	BETSY T JORDAN	55	2:59.18	BETSY JORDAN	92	2:01.56	DONNA EDELBAUM	3:26.36	JOAN E ALEXANDER	60	
	2:57.87	HELEN BUSS	56	2:59.18	BETSY T. JORDAN	55		200 M. FLY WOMEN 55-59	3:26.73	EDIE GRUENDER	63	
	3:00.60	RONNIE KAMPHAUSEN	58	3:11.45	LAVELLE STOINOFF	59	3:19.84	GAIL ROPER	3:26.90	ELLEN VOSE	62	
	3:03.42	DIANE STOWELL	58	3:28.81	BARBARA JORDAN	55	3:33.50	ANNE MCGUIRE	3:26.98	PARKIE COPELAND	63	
	3:06.31	JAYNE BRUNER	58	3:35.23	ANN CHAMP	57	3:34.18	BETSY T JORDAN		400 M. FREE WOMEN 60-64		
	3:06.69	BARBARA ZAREMSKI	55	3:47.05	SUZANNE ROBBINS	58	3:55.88	JEANNE LITTLE	6:02.28	CLARA WALKER	88	
	3:10.87	ANNE MCGUIRE	57	3:49.99	ELIZABET MOORE	58	4:03.39	MARGIE HEINEMAN	6:45.53	DIANE REED	61	
	3:10.98	BARBARA S JORDAN	55	3:52.19	BARBARA CALLISON	59	4:05.61	BARBARA ZAREMSKI	6:48.04	ANN M PISCIOTTA	61	
	3:17.61	NADINE WHITEHALL	58	3:59.76	KATHY ISERI	59	4:07.14	DORIS KLITZKE	6:55.23	MARGARET TIMMINS	62	
		400 M. FREE WOMEN 55-59		3:59.81	BARBARA HANSEN	55	4:22.67	DONNA EDELBAUM	7:10.32	ANITA HAZEN	64	
		5:36.66	LAVELLE STOINOFF	88	4:01.46	JOY ROSS	58	4:22.67	SHIRLEY MCFARLAND	7:10.60	JOAN E ALEXANDER	60
		5:39.83	LAVELLE STOINOFF	59		50 M. BRST WOMEN 55-59		4:23.82	DONNA MONROE	7:11.89	EDIE GRUENDER	63
		5:58.80	BETSY JORDAN	55	39.91	JAYNE BRUNER	91	4:27.59	BARBARA CALLISON	7:17.10	ELLEN VOSE	62
		6:07.20	RONNIE KAMPHAUSEN	58	40.20	JAYNE BRUNER	58		200 M. I.M. WOMEN 55-59	7:25.84	NANCY N. DURSTEIN	62
		6:12.42	DIANE STOWELL	57	45.02	ANNE MCGUIRE	57	3:06.11	JAYNE BRUNER	7:30.00	ANITA L HAZEN	64
		6:15.90	HELEN BUSS	56	45.36	JOHNNIE DETRICK	56	3:06.11	JAYNE BRUNER	7:32.93	BETTY BARABASH	64

TOP TEN

Long Course Meters

800 M. FREE WOMEN 60-64	56.61 BARBARA OWENS	62	4:05.71 NANCY N. DURSTEIN	62	13:57.86 PETEY SMITH	68
12:19.35 CLARA WALKER	57.06 HANNELORE SNYDER	61	4:09.92 BARBARA OWENS	62	14:56.01 MARGERY MEYER	69
13:13.22 ROXANNE MOTTER	100 M. BRST WOMEN 60-64		4:10.08 SHIRLEY SCOTT	63	15:01.62 GRACE ALTUS	68
14:10.39 MARGARET TIMMINS	1:40.18 ANN PISCIOTTA	92	400 M. I.M. WOMEN 60-64		15:09.96 LOIS NOCHMAN	67
14:13.39 GAIL ROPER	1:40.18 ANN PISCIOTTA	61	6:59.45 CLARA WALKER	86	16:11.80 BOBBI I TURCOTTE	65
14:15.78 ANN M PISCIOTTA	1:42.83 LILLY KRON	60	7:33.14 ANN M PISCIOTTA	61	16:35.36 FAY BECK	65
14:40.51 ANITA HAZEN	1:48.84 CAROL FERGUSON	60	8:00.49 LILLY KRON	60	1500 M. FREE WOMEN 65-69	
14:40.56 EDIE GRUENDER	1:54.90 JOYCE BAHLER	62	8:19.38 JOAN E ALEXANDER	60	24:07.05 CLARA WALKER	92
14:41.89 ELLEN VOSE	1:56.59 JOAN ALEXANDER	60	8:22.91 JOYCE BAHLER	62	24:07.05 CLARA WALKER	66
14:52.11 PARKIE COPELAND	1:57.55 JACQUELINE DUNLOP	61	8:25.59 NANCY N. DURSTEIN	62	25:34.74 JUNE KRAUSER	66
15:03.58 ANITA L HAZEN	2:05.19 MARIANNA HAGEN	63	8:26.64 JACQUELINE DUNLOP	61	26:30.09 BETTY JANE RUSS	65
15:07.19 MALCHIA OLSHAN	2:07.85 HANNELORE SNYDER	62	8:56.40 MARIAN WOLLE	64	27:06.96 FLORENCE E. CARR	66
1500 M. FREE WOMEN 60-64	2:09.39 JANET KAVADAS	61	9:09.76 SHIRLEY SCOTT	63	28:06.72 MARGERY MEYER	69
23:55.57 CLARA WALKER	2:10.60 MARIAN WOLLE	64	9:10.92 JUDY PARRISH	60	28:22.12 GRACE ALTUS	68
26:28.98 ANN M PISCIOTTA	200 M. BRST WOMEN 60-64		9:19.44 JOAN MCINTYRE	63	28:40.30 LOIS NOCHMAN	67
27:24.83 MALCHIA OLSHAN	3:35.36 ANN PISCIOTTA	92	*****		32:15.10 M.R. NEWMAN	68
28:22.44 ELLEN VOSE	3:35.36 ANN PISCIOTTA	61	50 M. FREE WOMEN 65-69		32:27.34 CLARA SOTAK	67
28:24.43 GAIL ROPER	3:35.44 LILLY KRON	60	34.75 CLARA WALKER	92	33:09.74 MARGARET WELLS	66
28:33.56 NANCY N. DURSTEIN	3:52.56 CAROL FERGUSON	60	34.75 CLARA WALKER	66	50 M. BACK WOMEN 65-69	
28:53.66 BARBARA OWENS	4:07.72 JOYCE BAHLER	62	37.48 BETTY JANE RUSS	65	39.85 CLARA WALKER	92
29:08.37 ANITA L HAZEN	4:11.76 JOAN ALEXANDER	60	38.04 JEAN TROY	65	39.85 CLARA WALKER	66
30:09.48 EDIE GRUENDER	4:19.52 MICKEY SHOCKLEY	63	38.07 DELLA SEHORN	65	42.18 DORIS STEADMAN	67
30:16.05 ANN DALLAM	4:24.40 BARBARA OWENS	62	38.16 PETEY SMITH	68	43.94 DELLA SEHORN	65
30:20.21 BETTY MCMILLAN	4:32.75 NANCY N. DURSTEIN	62	39.17 FLORENCE E. CARR	67	46.13 FLORENCE CARR	66
50 M. BACK WOMEN 60-64	4:33.18 MARIAN WOLLE	64	40.33 MARGERY MEYER	69	46.51 MARGERY MEYER	69
40.35 DORIS STEADMAN	4:35.19 ELFRIEDE ROGERS	64	41.13 RUTH BAAR	69	47.55 REGAN KENNER	68
43.44 ROXANNE MOTTER	50 M. FLY WOMEN 60-64		41.19 DORIS STEADMAN	67	48.34 C.WILLIAMS	68
47.66 MARGARET TIMMINS	38.64 ANNE ADAMS	88	41.56 JUNE KRAUSER	66	49.16 SARAH ALLNUTT	68
47.79 ANN M PISCIOTTA	39.85 ROXANNE MOTTER	60	100 M. FREE WOMEN 65-69		49.48 M.J. AMSBARY	67
48.04 JACQUELINE DUNLOP	45.00 GAIL ROPER	63	1:16.84 CLARA WALKER	92	50.88 JUNE KRAUSER	66
49.30 MARIA YUNGEL	45.93 ANN M PISCIOTTA	61	1:16.84 CLARA WALKER	65	100 M. BACK WOMEN 65-69	
50.51 KATHIE THEIS	46.54 EDIE GRUENDER	64	1:23.24 BETTY JANE RUSS	65	1:30.97 CLARA WALKER	91
50.92 GAY COLLINS	47.94 JOAN E ALEXANDER	60	1:24.40 PETEY SMITH	68	1:31.82 CLARA WALKER	66
51.26 MARY JANE MULLINS	52.22 MICKEY SHOCKLEY	63	1:25.60 JEAN TROY	65	1:34.06 DORIS STEADMAN	67
52.54 JOAN MCINTYRE	52.46 SHIRLEY SCOTT	63	1:28.66 FLORENCE E. CARR	66	1:39.23 DELLA SEHORN	65
52.63 BETTY MCMILLAN	53.32 GAY COLLINS	62	1:30.08 DELLA M SEHORN	65	1:42.68 REGAN KENNER	68
100 M. BACK WOMEN 60-64	53.72 RUTH A. HOSKINSON	62	1:30.52 JUNE KRAUSER	66	1:42.97 FLORENCE CARR	66
1:31.06 CLARA WALKER	53.94 PARKIE COPELAND	63	1:31.57 MARGERY MEYER	69	1:45.09 MARGERY MEYER	69
1:38.85 ROXANNE MOTTER	100 M. FLY WOMEN 60-64		1:34.69 C.WILLIAMS	68	1:49.05 M.J. AMSBARY	67
1:46.63 ANN M PISCIOTTA	1:34.48 ANNE ADAMS	88	1:37.74 RUTH BAAR	69	1:49.38 JUNE KRAUSER	66
1:48.96 JACQUELINE DUNLOP	1:45.30 ANN M PISCIOTTA	61	200 M. FREE WOMEN 65-69		1:51.27 BETTY JANE RUSS	65
1:49.00 MARIA YUNGEL	1:49.22 JOAN ALEXANDER	60	2:48.51 CLARA WALKER	92	1:53.44 JEANNE MERRYMAN	69
1:52.39 KATHIE THEIS	1:51.04 EDIE GRUENDER	64	2:48.51 CLARA WALKER	66	200 M. BACK WOMEN 65-69	
1:53.56 MARY JANE MULLINS	2:06.61 BARBARA OWENS	62	3:04.64 BETTY JANE RUSS	65	3:17.12 DORIS STEADMAN	90
1:53.72 STEFANENA KYSOR	2:09.42 RUTH A. HOSKINSON	62	3:06.85 PETEY SMITH	68	3:19.43 CLARA WALKER	66
1:54.10 JOAN MCINTYRE	2:10.73 ANN DALLAM	61	3:08.27 JEAN TROY	65	3:24.33 DORIS STEADMAN	67
1:55.40 NANCY N. DURSTEIN	2:13.12 BETTY KAKOS	61	3:10.29 JUNE KRAUSER	66	3:39.50 DELLA SEHORN	65
1:56.15 BARBARA OWENS	2:14.34 RUTH AARON	63	3:15.06 FLORENCE E. CARR	67	3:44.61 REGAN KENNER	68
200 M. BACK WOMEN 60-64	2:15.01 MARY JANE MULLINS	61	3:22.01 MARGERY MEYER	69	3:45.17 JUNE KRAUSER	66
3:15.92 DORIS STEADMAN	2:23.07 MARIAN WOLLE	64	3:23.55 PATRICIA DOTSON	65	3:49.13 FLORENCE CARR	66
3:29.98 ROXANNE MOTTER	200 M. FLY WOMEN 60-64		3:27.60 DORIS STEADMAN	67	3:56.43 C.WILLIAMS	68
3:44.06 ANN M PISCIOTTA	3:32.87 GAIL ROPER	90	3:28.56 DELLA M SEHORN	65	3:59.59 M.J. AMSBARY	67
3:49.39 MARIA YUNGEL	3:49.59 ANN PISCIOTTA	61	400 M. FREE WOMEN 65-69		4:02.75 MARGERY MEYER	69
3:52.20 JOAN MCINTYRE	4:05.90 LILLY KRON	60	6:05.22 CLARA WALKER	91	4:03.81 PATSY E WEISS	69
3:58.11 MARY JANE MULLINS	4:06.24 JOAN E ALEXANDER	60	6:09.08 CLARA WALKER	66	50 M. BRST WOMEN 65-69	
4:03.02 NANCY N. DURSTEIN	4:26.17 MALCHIA OLSHAN	61	6:34.10 JUNE KRAUSER	66	47.05 CLARA WALKER	92
4:04.50 KATHIE THEIS	4:32.28 JOYCE BAHLER	62	6:34.81 BETTY JANE RUSS	65	47.05 CLARA WALKER	65
4:05.41 STEFANENA KYSOR	4:47.07 RUTH A. HOSKINSON	62	6:38.13 PETEY SMITH	68	49.60 M.J. AMSBARY	67
4:15.66 BOBBI I TURCOTTE	4:51.16 MARIAN WOLLE	64	6:49.21 FLORENCE E. CARR	66	49.94 REGAN KENNER	68
4:17.83 B.L'ESPERANCE	4:58.85 SHIRLEY SCOTT	63	7:03.89 MARGERY MEYER	69	51.16 BETH BLICKFELDT	65
50 M. BRST WOMEN 60-64	5:50.24 JOAN MCINTYRE	63	7:10.47 DORIS STEADMAN	67	52.25 JUNE KRAUSER	66
45.75 ANN PISCIOTTA	200 M. I.M. WOMEN 60-64		7:30.88 GRACE ALTUS	68	53.08 CHARLOTE COSTELLO	68
45.75 ANN PISCIOTTA	3:17.40 CLARA WALKER	86	7:35.78 LOIS NOCHMAN	67	53.19 JOAN GLARATON	65
47.71 LILLY KRON	3:35.10 ANN M PISCIOTTA	61	7:42.52 RUTH BAAR	69	53.37 ALICIA COLEMAN	66
49.37 CAROL FERGUSON	3:45.11 GAIL ROPER	63	800 M. FREE WOMEN 65-69		53.94 FLORENCE E. CARR	67
51.02 JACQUELINE DUNLOP	3:47.49 LILLY KRON	60	12:27.60 CLARA WALKER	92	55.59 SARAH ALLNUTT	68
51.70 JOYCE BAHLER	3:50.88 JACQUELINE DUNLOP	61	12:27.60 CLARA WALKER	66	100 M. BRST WOMEN 65-69	
52.92 MICKEY SHOCKLEY	3:54.49 JOAN E ALEXANDER	60	13:14.42 JUNE KRAUSER	66	1:42.84 CLARA WALKER	91
54.50 JOAN E ALEXANDER	3:55.69 EDIE GRUENDER	64	13:29.00 BETTY JANE RUSS	65	1:45.95 CLARA WALKER	65
54.73 ANN DALLAM	3:56.71 JOYCE BAHLER	62	13:53.64 FLORENCE CARR	66	1:50.69 REGAN KENNER	68

TOP TEN Long Course Meters

1:52.97	JUNE KRAUSER	66	7:09.69	CLARA WALKER	66	28:29.00	ROSE STEWARD	74	2:34.54	EDITH GLUSAC	73
1:55.89	BETH BLICKFELDT	66	7:35.11	JUNE KRAUSER	66	1500 M. FREE WOMEN 70-74			2:38.37	MARIE KREIPE	73
1:57.28	ALICIA COLEMAN	67	7:56.25	DELLA M SEHORN	65	28:46.45	RITA SIMONTON	88	2:46.49	JUDY MELCHER	72
1:58.02	M.J. AMSBARY	67	8:26.59	FLORENCE CARR	66	29:33.93	RITA SIMONTON	74	200 M. BRST WOMEN 70-74		
1:59.80	CHARLOTE COSTELLO	69	8:41.32	PETEY SMITH	68	31:49.96	B.BURRILL	71	4:06.80	BETTY CHRISTIAN	92
2:03.90	PATSY E WEISS	69	8:41.99	LOIS NOCHMAN	67	33:04.99	PAULINE STANGEL	70	4:06.80	BETTY CHRISTIAN	70
2:06.07	JEAN TROY	65	9:22.26	JAE HOWELL	69	33:58.25	KAY M. SCHIMPF	74	4:45.66	RITA SIMONTON	74
2:07.21	MURIEL FLYNN	69	9:42.30	BETTY C. DUNN	67	34:05.38	Y.FRISCHHERTZ	74	4:49.32	AGOTA FROHS	72
200 M. BRST WOMEN 65-69			9:45.59	MARGARET WELLS	66	35:28.37	ZADA W TAFT	73	4:51.78	PAULINE STANGEL	70
3:49.13	CLARA WALKER	92	10:01.63	JOAN M. GLARATON	65	38:35.85	MARION CHADWICK	70	4:58.42	JUNE REYNOLDS	70
3:49.13	CLARA WALKER	65	*****			39:28.53	RACHEL M. ERWIN	72	5:07.05	KAY M. SCHIMPF	74
4:02.94	REGAN KENNER	68	50 M. FREE WOMEN 70-74			39:43.65	MARIE KREIPE	73	5:26.60	EDITH GLUSAC	73
4:04.27	BETH BLICKFELDT	65	38.59	DOROTHY DONNELLY	92	42:54.29	ROSEMARY KARIKER	73	5:29.29	Y. FRISCHHERTZ	74
4:04.72	JUNE KRAUSER	66	38.59	DOROTHY DONNELLY	70	50 M. BACK WOMEN 70-74			5:50.01	LIBBY POOLE	72
4:16.71	M.J. AMSBARY	67	43.37	B.BURRILL	71	44.53	BUNNY CEDERLUND	92	5:52.45	JUDY MELCHER	72
4:17.15	ALICIA COLEMAN	67	43.47	BUNNY CEDERLUND	70	44.53	BUNNY CEDERLUND	70	50 M. FLY WOMEN 70-74		
4:22.50	PATSY E WEISS	69	44.90	BARDI J. DENDY	71	44.83	MARY CULHANE	70	49.55	JEANNETTE EPPLEY	90
4:33.20	MURIEL FLYNN	69	45.60	NANCY PHILLIPS	70	48.95	BETTY CHRISTIAN	70	51.95	JEANNETTE EPPLEY	72
4:37.72	JAE HOWELL	69	45.61	DIANA M SILVA	70	51.45	JOSEPHINE PALLIN	72	56.45	DOROTHY DONNELLY	70
4:42.16	LOIS NOCHMAN	65	46.66	JUNE B. REYNOLDS	70	52.92	IRENE SANDAHL	71	58.18	DIANA M SILVA	70
50 M. FLY WOMEN 65-69			47.16	ANNALOU CARRIER	71	53.36	H.HUGGINS	70	58.72	SYLVIA H. HILL	70
43.35	FLORENCE CARR	90	47.54	JOSEPHINE PALLIN	72	53.99	NANCY PHILLIPS	71	59.14	SUE MCGAUGHEY	70
44.88	LOIS NOCHMAN	67	48.15	MAURINE KORNFELD	70	54.93	DOROTHY DONNELLY	70	1:01.14	JUNE B. REYNOLDS	70
45.65	FLORENCE E. CARR	66	100 M. FREE WOMEN 70-74			55.13	Y.FRISCHHERTZ	74	1:02.53	ZADA TAFT	72
45.70	CLARA WALKER	65	1:28.96	DOROTHY DONNELLY	92	55.69	DIANA M SILVA	70	1:05.35	JEAN ZULICH	71
46.02	JUNE KRAUSER	66	1:28.96	DOROTHY DONNELLY	70	100 M. BACK WOMEN 70-74			1:07.36	JANE ROSSELL	70
47.31	C.WILLIAMS	68	1:38.21	BILLIE ANN BURILL	71	1:44.88	BUNNY CEDERLUND	92	1:08.91	ROSEMARY KARIKER	73
48.14	JEAN TROY	65	1:40.63	BUNNY CEDERLUND	70	1:44.88	BUNNY CEDERLUND	70	100 M. FLY WOMEN 70-74		
48.49	PATRICIA DOTSON	65	1:43.92	DIANA M SILVA	70	1:49.39	BETTY CHRISTIAN	70	2:06.32	JEANNETTE EPPLEY	92
49.37	BETTY JANE RUSS	65	1:46.09	SYLVIA H. HILL	70	1:56.77	JOSEPHINE PALLIN	72	2:06.32	JEANNETTE EPPLEY	72
49.67	CHARLOTE COSTELLO	68	1:49.05	BARDI J. DENDY	71	2:02.41	ANNALOU CARRIER	71	2:19.47	JUNE B. REYNOLDS	70
50.59	SARAH ALLNUTT	68	1:50.20	ANNALOU CARRIER	71	2:02.51	DIANA M SILVA	70	2:24.82	SUE MCGAUGHEY	70
100 M. FLY WOMEN 65-69			1:52.20	JOSEPHINE PALLIN	72	2:02.58	H.HUGGINS	70	2:25.77	RITA SIMONTON	74
1:40.35	JUNE KRAUSER	91	1:52.58	MAURINE KORNFELD	70	2:04.20	Y.FRISCHHERTZ	74	2:26.76	KAY M. SCHIMPF	74
1:42.39	JUNE KRAUSER	66	1:53.65	JANE ROSSELL	70	2:08.16	NANCY PHILLIPS	71	2:32.54	ZADA W TAFT	73
1:47.55	DELLA SEHORN	65	200 M. FREE WOMEN 70-74			2:11.97	MERLYN EWBANK	70	2:36.79	ROSEMARY KARIKER	73
1:49.46	PATRICIA DOTSON	65	3:27.09	JUNE GILBERT	87	2:13.45	IRENE SANDAHL	71	2:37.95	JEAN ZULICH	72
1:51.28	BETTY JANE RUSS	65	3:28.22	DOROTHY DONNELLY	70	200 M. BACK WOMEN 70-74			2:39.89	WINNIE WALTER	71
1:52.60	LOIS NOCHMAN	67	3:36.29	BILLIE ANN BURILL	71	3:52.95	BUNNY CEDERLUND	92	3:13.41	ELFIE STEVENIN	71
1:57.70	FLORENCE E. CARR	67	3:42.47	RITA SIMONTON	74	3:52.95	BUNNY CEDERLUND	70	200 M. FLY WOMEN 70-74		
1:59.97	BETTY C. DUNN	67	3:46.85	NANCY PHILLIPS	70	4:17.94	Y. FRISCHHERTZ	74	4:37.05	MAXINE MERLINO	82
2:02.75	CHARLOTE COSTELLO	68	3:52.10	MAURINE KORNFELD	70	4:21.17	DIANA M SILVA	70	4:51.87	JUNE B. REYNOLDS	70
2:06.61	RUTH MANFREDI	68	3:57.46	SYLVIA HILL	70	4:22.96	NANCY PHILLIPS	70	4:59.75	JEANNETTE EPPLEY	72
2:13.90	JAE HOWELL	69	3:58.16	ANNALOU CARRIER	71	4:29.71	H.HUGGINS	70	5:18.01	RITA SIMONTON	74
200 M. FLY WOMEN 65-69			3:59.61	JANE ROSSELL	70	4:30.82	ANNALOU CARRIER	71	5:28.81	KAY M. SCHIMPF	74
3:42.61	JUNE KRAUSER	92	4:02.18	Y. FRISCHHERTZ	74	4:35.46	ZADA W TAFT	73	5:45.69	WINNIE WALTER	71
3:42.61	JUNE KRAUSER	66	4:02.75	PAULINE STANGEL	70	4:43.41	MERLYN EWBANK	71	5:52.38	DOROTHY KIMMEL	71
3:48.10	BETTY JANE RUSS	65	400 M. FREE WOMEN 70-74			4:50.91	IRENE SANDAHL	71	6:08.08	ROSEMARY KARIKER	73
4:21.63	LOIS NOCHMAN	67	7:28.90	LOUISE DONOVAN	88	4:51.62	AGNES ZYDINSKY	70	6:44.85	ELFIE STEVENIN	71
4:46.31	JAE HOWELL	69	7:32.01	RITA SIMONTON	74	50 M. BRST WOMEN 70-74			8:01.12	ZONA JONES	74
4:51.52	BETTY C. DUNN	67	7:44.63	BILLIE ANN BURILL	71	50.08	BETTY CHRISTIAN	92	200 M. I.M. WOMEN 70-74		
4:51.88	RUTH MANFREDI	68	7:54.18	DOROTHY DONNELLY	70	50.08	BETTY CHRISTIAN	70	4:04.73	DOROTHY DONNELLY	92
4:58.41	MARGARET WELLS	66	8:02.87	MAURINE KORNFELD	70	1:00.69	AGOTA FROHS	72	4:04.73	DOROTHY DONNELLY	70
5:10.70	JOAN GLARATON	65	8:03.43	SYLVIA HILL	70	1:00.88	PAULINE STANGEL	70	4:24.41	RITA SIMONTON	74
6:15.46	MARJORIE NEWMAN	68	8:20.30	BUNNY CEDERLUND	70	1:01.16	JUNE B. REYNOLDS	70	4:33.55	JEANNETTE EPPLEY	72
6:56.29	ELLEN BOWEN	68	8:34.50	JANE ROSSELL	70	1:01.31	BARDI J. DENDY	71	4:34.37	IRENE SANDAHL	71
200 M. I.M. WOMEN 65-69			8:46.05	AGNES ZYDINSKY	70	1:02.92	IRENE SANDAHL	71	4:35.21	JUNE B. REYNOLDS	70
3:19.01	CLARA WALKER	91	8:50.66	Y.FRISCHHERTZ	74	1:03.28	MARY CULHANE	70	4:38.56	DIANA M SILVA	70
3:20.58	CLARA WALKER	66	8:53.10	KAY M. SCHIMPF	74	1:03.49	DOROTHY DONNELLY	70	4:46.34	NANCY PHILLIPS	71
3:38.49	JUNE KRAUSER	66	800 M. FREE WOMEN 70-74			1:04.07	KAY M. SCHIMPF	74	4:47.77	KAY M. SCHIMPF	74
3:40.38	DELLA SEHORN	65	15:04.91	RITA SIMONTON	88	1:04.57	NORMA HOFFRICHTER	73	4:48.78	SYLVIA HILL	70
3:43.27	FLORENCE E. CARR	66	15:32.29	RITA SIMONTON	74	100 M. BRST WOMEN 70-74			4:51.20	SUE MCGAUGHEY	70
3:46.20	JEAN TROY	65	16:11.13	BILLIE ANN BURILL	71	1:52.88	BETTY CHRISTIAN	92	400 M. I.M. WOMEN 70-74		
3:47.40	BETTY JANE RUSS	65	17:25.31	NANCY PHILLIPS	71	1:52.88	BETTY CHRISTIAN	70	8:39.36	RITA SIMONTON	88
3:55.51	PATRICIA DOTSON	65	19:18.77	ZADA W TAFT	73	2:15.05	PAULINE STANGEL	70	9:16.52	RITA SIMONTON	74
3:57.86	C.WILLIAMS	68	19:19.98	A.HOTTINGER	70	2:15.77	AGOTA FROHS	72	9:39.16	MERLYN EWBANK	70
4:00.50	BETH BLICKFELDT	65	20:18.66	MARIE KREIPE	73	2:16.93	JUNE B. REYNOLDS	70	9:44.54	JUNE REYNOLDS	70
4:15.80	ALICIA COLEMAN	66	22:48.68	KATE BRAZIL	72	2:24.12	MARY CULHANE	70	9:47.65	SYLVIA H. HILL	70
400 M. I.M. WOMEN 65-69			22:55.35	RACHEL ERWIN	72	2:25.42	KAY M. SCHIMPF	74	9:50.51	JEANNETTE EPPLEY	72
7:09.69	CLARA WALKER	92	23:52.10	ELFIE STEVENIN	71	2:34.33	JEAN ZULICH	72	11:04.60	ZADA TAFT	72

TOP TEN

Long Course Meters

12:10.10	ROSEMARY KARIKER	73	36:16.29	JEAN DURSTON	78	5:12.82	SALLY JOY	75	1:10.58	MARION MUELLER	80
13:22.86	ELFIE STEVENIN	71	39:29.44	PAT MATTHIESEN	76	5:33.69	JEAN D DURSTON	78	1:15.83	DOROTHY RIORDAN	80
14:40.19	MARION CHADWICK	70	41:54.83	LEE HOLM	77	5:35.57	MARY JANE REEVES	75	1:16.06	HEDY PULLMAN	81
17:24.94	ROSE STEWARD	74	42:09.70	MARY LATHRAM	77	5:48.60	MARY WENTWORTH	76	1:16.90	RUTH D. SWITZER	84

50	M. FREE WOMEN 75-79		42:37.37	GENEVA KAHRS	78	5:56.61	HELEN ROUMASSET	77	1:47.18	ELIZABETH DZIADUS	82
43.35	NANCY CLARK	89	52:05.64	MILLIE L. HUPP	76	6:22.44	HILDA G BUEL	78	100 M. FREE WOMEN 80-84		
45.45	AUDREY ETIENNE	75	50	M. BACK WOMEN 75-79		6:37.87	HELENA HOFFMAN	76	1:55.84	JULIA DOLCE	91
45.81	NANCY G. CLARK	78	50.45	ANNE WALKER	91	7:06.96	JANET MESERVEY	77	2:01.31	JULIA DOLCE	83
46.31	ANNE WALKER	76	50.64	ANNE WALKER	76	50	M. FLY WOMEN 75-79		2:28.37	ELLEN TAIT	81
48.21	MARGARET NAGLE	75	54.11	MARDIE BROWN	75	59.68	KAY SCHIMPF	92	2:34.36	HELEN OFFENHAUSER	80
49.26	MARIE WICKLUM	78	57.07	AUDREY H. ETIENNE	75	59.68	KAY SCHIMPF	75	2:41.85	SALLY RYCKMAN	80
50.58	KAY M. SCHIMPF	75	58.45	EDITH GLUSAC	76	1:02.07	SALLY JOY	75	2:42.49	EDITH HENDRY	81
51.70	MARY JANE REEVES	75	59.01	MARIE WICKLUM	78	1:03.34	MARGARET HUBBARD	77	2:44.96	EDIE GOLDMAN	81
54.72	VICKEE SULLIVAN	75	1:03.55	SALLY JOY	75	1:03.56	JEAN D DURSTON	78	2:45.03	DOROTHY RIORDAN	80
55.07	EVELYN MCKEON	78	1:03.93	MARY LATHRAM	77	1:05.74	AUDREY H ETIENNE	75	2:47.14	RUTH D. SWITZER	84
55.25	SALLY JOY	75	1:04.02	MARGARET NAGLE	75	1:14.38	ANNE WILDER	78	3:28.03	HEDY PULLMAN	81
100	M. FREE WOMEN 75-79		1:04.97	MARGARET HUBBARD	77	1:14.76	MAXINE MERLINO	79	4:21.21	DOREEN MORRIS	80
1:40.85	NANCY CLARK	89	1:05.26	KAY M. SCHIMPF	75	1:16.15	MARY WENTWORTH	76	200 M. FREE WOMEN 80-84		
1:44.01	AUDREY H. ETIENNE	75	100	M. BACK WOMEN 75-79		1:20.15	HELEN ROUMASSET	77	4:21.21	MAXINE MERLINO	92
1:46.33	NANCY G. CLARK	78	1:53.76	ANNE WALKER	92	1:20.32	PAT MATTHIESEN	76	4:21.21	MAXINE MERLINO	80
1:50.96	JOAN OSBORNE	75	1:53.76	ANNE WALKER	76	100	M. FLY WOMEN 75-79		4:39.78	JULIA DOLCE	82
1:51.73	ANNE WALKER	76	1:54.19	MARDIE BROWN	75	2:19.44	KAY SCHIMPF	92	5:13.33	ELSA MATTILA	82
1:52.79	MARGARET NAGLE	75	2:06.63	MARIE WICKLUM	78	2:19.44	KAY SCHIMPF	75	5:23.46	ELLEN TAIT	80
1:56.09	KAY M. SCHIMPF	75	2:10.72	AUDREY ETIENNE	75	2:31.09	JEAN D DURSTON	78	5:42.37	MEREDITH SCANLON	81
1:56.12	MARY JANE REEVES	75	2:14.23	SALLY JOY	75	2:46.10	MARY WENTWORTH	76	5:46.46	EDITH HENDRY	81
2:05.62	JEAN D DURSTON	78	2:16.08	EDITH GLUSAC	76	2:47.59	PAT MATTHIESEN	76	5:53.53	SALLY RYCKMAN	80
2:06.07	EVELYN MCKEON	78	2:19.83	KAY M. SCHIMPF	75	2:52.77	ANNE WILDER	78	5:56.56	RUTH D. SWITZER	84
2:07.98	VICKEE SULLIVAN	75	2:25.37	IVY BROWNE	77	2:57.44	HELEN ROUMASSET	77	6:03.09	DOROTHY RIORDAN	80
200	M. FREE WOMEN 75-79		2:29.08	EVA MULLER	79	3:19.68	HILDA G BUEL	78	6:52.33	HEDY PULLMAN	81
3:54.32	AUDREY ETIENNE	92	2:30.04	MARY LATHRAM	77	3:36.40	HELENA HOFFMAN	76	400 M. FREE WOMEN 80-84		
3:54.32	AUDREY H. ETIENNE	75	200	M. BACK WOMEN 75-79		3:48.55	EVA MULLER	79	9:02.79	MAXINE MERLINO	92
4:03.66	JOAN OSBORNE	75	4:07.44	MARIE WICKLUM	89	200	M. FLY WOMEN 75-79		9:02.79	MAXINE MERLINO	80
4:04.07	ANNE WALKER	76	4:09.06	MARDIE BROWN	75	4:54.79	MAXINE MERLINO	88	10:02.50	JULIA DOLCE	82
4:08.60	KAY M. SCHIMPF	75	4:09.11	ANNE WALKER	76	5:22.91	JEAN D DURSTON	78	11:28.85	ELLEN TAIT	80
4:11.11	MARY JANE REEVES	75	4:24.06	MARIE WICKLUM	78	5:37.83	MAXINE MERLINO	79	12:28.90	RUTH D. SWITZER	84
4:12.40	MARGARET NAGLE	75	4:46.78	KAY M. SCHIMPF	75	5:40.34	KAY SCHIMPF	75	12:30.61	MARION MUELLER	80
4:12.76	NANCY CLARK	78	4:50.74	SALLY JOY	75	5:59.57	ANNE WILDER	78	800	M. FREE WOMEN 80-84	
4:16.32	JEAN D DURSTON	78	4:51.58	AUDREY H ETIENNE	75	6:48.47	HELEN ROUMASSET	77	18:43.13	MAXINE MERLINO	92
4:17.65	MARIE WICKLUM	78	5:04.50	IVY BROWNE	77	7:06.90	HILDA BUEL	78	18:43.13	MAXINE MERLINO	80
4:37.82	IVY BROWNE	76	5:06.96	PAT MATTHIESEN	75	200	M. I.M. WOMEN 75-79		22:05.92	JULIA DOLCE	82
400	M. FREE WOMEN 75-79		5:08.36	JEAN D DURSTON	78	4:25.80	MAXINE MERLINO	87	1500	M. FREE WOMEN 80-84	
8:21.15	JEAN DURSTON	90	5:16.95	MARY LATHRAM	77	4:37.88	MARDIE BROWN	75	36:54.26	JULIA DOLCE	90
8:12.41	AUDREY H. ETIENNE	75NV	50	M. BRST WOMEN 75-79		4:45.38	KAY SCHIMPF	75	NO SWIMMERS		
8:37.56	KAY M. SCHIMPF	75	58.61	SALLY JOY	92	5:02.61	JEAN DURSTON	78	50	M. BACK WOMEN 80-84	
8:40.31	JOAN OSBORNE	75	58.61	SALLY JOY	75	5:05.29	HELENA HOFFMAN	76	55.07	AILEEN SOULE	89
8:50.84	JEAN D DURSTON	78	1:00.11	KAY SCHIMPF	75	5:12.42	MARGARET HUBBARD	77	1:06.51	ELSA MATTILA	82
8:51.30	ANNE WALKER	76	1:01.95	MARGARET HUBBARD	77	5:22.26	PAT MATTHIESEN	76	1:11.08	MARION MUELLER	80
8:56.58	MARY JANE REEVES	75	1:08.29	EDITH GLUSAC	76	5:27.07	MARY WENTWORTH	76	1:12.71	EDITH HENDRY	81
10:10.01	HELEN ROUMASSET	76	1:11.61	PAT MATTHIESEN	76	5:37.29	HELEN ROUMASSET	76	1:14.08	MEREDITH SCANLON	81
10:19.86	PAT MATTHIESEN	76	1:12.16	HELEN ROUMASSET	77	5:54.38	ANNE WILDER	78	1:17.41	HELEN OFFENHAUSER	80
10:41.17	LEE HOLM	77	1:13.86	JEAN D DURSTON	78	5:58.50	EVA MULLER	79	1:26.83	SALLY RYCKMAN	80
10:48.65	HELENA HOFFMAN	76	1:19.47	MARY WENTWORTH	76	400	M. I.M. WOMEN 75-79		1:33.03	HEDY PULLMAN	81
800	M. FREE WOMEN 75-79		1:20.20	ANNE WALKER	76	9:11.23	MAXINE MERLINO	87	1:45.59	DOREEN MORRIS	80
17:09.60	JEAN DURSTON	90	1:20.89	ANNE WILDER	78	9:55.99	MARDIE BROWN	75	1:50.58	HAZEL BRESSIE	83
16:51.23	AUDREY H. ETIENNE	75NV	100	M. BRST WOMEN 75-79		10:13.43	KAY SCHIMPF	75	2:04.59	RUTH D. SWITZER	84
17:30.76	ANNE WALKER	76	2:14.40	MAXINE MERLINO	87	10:13.69	MAXINE O MERLINO	79	100	M. BACK WOMEN 80-84	
17:51.41	JEAN D DURSTON	78	2:16.15	KAY SCHIMPF	75	10:23.98	JEAN D DURSTON	78	2:07.79	AILEEN SOULE	89
18:13.85	KAY SCHIMPF	75	2:19.63	MARGARET HUBBARD	77	11:42.71	HELEN ROUMASSET	77	2:31.45	JULIA DOLCE	82
18:18.01	MARY JANE REEVES	75	2:19.66	SALLY JOY	75	12:19.94	ANNE WILDER	78	2:31.97	ELSA MATTILA	82
19:42.83	MAXINE MERLINO	79	2:28.26	EDITH GLUSAC	76	12:20.02	PAT MATTHIESEN	76	2:34.37	MARION MUELLER	80
19:54.08	PAT MATTHIESEN	76	2:29.71	MAXINE MERLINO	79	13:44.59	HILDA BUEL	78	2:46.58	EDITH HENDRY	81
20:06.70	HELEN ROUMASSET	77	2:37.97	MARY WENTWORTH	76	14:16.14	HELENA HOFFMAN	76	2:51.91	HEDY PULLMAN	81
22:22.53	MARY LATHRAM	77	2:42.87	PAT MATTHIESEN	75	*****					
28:54.56	MILLIE HUPP	76	2:43.58	MARY JANE REEVES	75	50	M. FREE WOMEN 80-84		3:54.30	DOREEN MORRIS	80
1500	M. FREE WOMEN 75-79		2:47.66	HELEN ROUMASSET	76	48.46	MAXINE MERLINO	92	4:20.11	RUTH D. SWITZER	84
31:46.49	JEAN DURSTON	90	2:53.89	HILDA G BUEL	78	48.86	MAXINE MERLINO	80	200	M. BACK WOMEN 80-84	
32:27.15	AUDREY H ETIENNE	75	200	M. BRST WOMEN 75-79		51.45	JULIA DOLCE	83	4:38.26	AILEEN SOULE	89
34:41.26	KAY SCHIMPF	75	4:39.52	MAXINE MERLINO	87	1:04.32	ELLEN TAIT	80	5:04.46	ELSA MATTILA	82
35:43.11	MARY JANE REEVES	75	4:55.82	KAY M. SCHIMPF	75	1:05.22	EDITH HENDRY	81	5:31.80	MARION MUELLER	80
			5:10.84	MARGARET HUBBARD	77	1:07.34	SALLY RYCKMAN	80	6:17.48	EDITH HENDRY	81

TOP TEN Long Course Meters

8:44.41 HAZEL BRESSIE 83	3:00.41 MARIAN MCKECHNIE 87	2:01.27 SIMON FINLAYSON 24	2:23.25 GUY GENIN 23
50 M. BRST WOMEN 80-84	200 M. BACK WOMEN 85-89	2:01.69 RUSSELL KNEIPP 23	2:27.42 JEFFREY RODDIN 23
1:05.10 MAXINE MERLINO 92	4:47.82 AILEEN SOULE 91	2:04.81 GREG MACKEM 24	2:36.98 BILL EVISON 24
1:05.10 MAXINE MERLINO 80	4:57.37 AILEEN SOULE 86	2:06.59 MICK MOORE 22	2:38.10 JEFF JANES 19
1:40.44 DOROTHY RIORDAN 80	7:13.91 M.B. MCKECHNIE 87	2:08.57 MICHAEL VETTER 22	2:39.70 ROBERT WELCHER 23
1:42.51 SALLY RYCKMAN 80	50 M. BRST WOMEN 85-89	2:12.14 MICHAEL TOLMAN 24	2:41.30 MARK HJELLE 22
2:14.10 HEDY PULLMAN 81	1:42.40 ELLA PECKHAM 84	2:12.82 ANDREW L. GELLER 24	2:50.07 MICHAEL TOLMAN 24
2:26.95 HAZEL BRESSIE 83	NO SWIMMERS	2:14.23 BRENT R. VREELAND 21	3:01.40 LJ SCHMITT 23
100 M. BRST WOMEN 80-84	100 M. BRST WOMEN 85-89	2:15.60 GUILLO C. CINTRON 23	50 M. BRST M E N 19-24
2:22.79 MAXINE MERLINO 92	3:18.97 KATHERINE PELTON 91	400 M. FREE M E N 19-24	30.10 JOSH AMATO 87
2:22.79 MAXINE MERLINO 80	4:04.75 KATHERINE PELTON 86	4:10.98 TONY BATIS 89	31.90 GREG COOPER 24
2:51.06 ELSA MATTILA 82	200 M. BRST WOMEN 85-89	4:19.23 SIMON FINLAYSON 24	34.54 WILLIAM HAUSCHILD 24
3:11.08 EDIE GOLDMAN 81	6:58.50 KATHERINE PELTON 91	4:29.75 MICK MOORE 22	34.89 JOSEPH WALTER 21
3:41.39 DOROTHY RIORDAN 80	9:07.54 KATHERINE PELTON 86	4:45.07 BRENT R. VREELAND 21	35.04 JACK MACKENROTH 23
4:35.38 HEDY PULLMAN 81	50 M. FLY WOMEN 85-89	4:47.37 GUILLO C. CINTRON 23	35.96 JASON HENNEMAN 23
200 M. BRST WOMEN 80-84	1:27.77 ELLA PECKHAM 85	4:50.34 MICHAEL TOLMAN 24	36.19 ALAN SUDDUTH 24
5:07.83 MAXINE MERLINO 92	1:46.98 KATHERINE PELTON 86	4:57.07 ANDY POTTER 21	36.51 MICHAEL NOMURA 24
5:07.83 MAXINE MERLINO 80	100 M. FLY WOMEN 85-89	5:03.98 WILLIAM HAUSCHILD 24	36.63 KIRK CLEAR 24
5:27.66 ELSA MATTILA 82	3:01.14 KATHERINE PELTON 91	5:05.24 WILLIAM SCHWARTZ 24	37.29 ALBERT VAN DIJK 21
7:58.76 DOROTHY RIORDAN 80	4:10.59 KATHERINE PELTON 86	5:07.53 C.DEGRANDA 24	37.75 GREGORY FONG 23
8:14.46 HEDY PULLMAN 81	200 M. FLY WOMEN 85-89	5:08.00 LANCE POTTER 19	100 M. BRST M E N 19-24
50 M. FLY WOMEN 80-84	7:18.41 KATHERINE PELTON 90	800 M. FREE M E N 19-24	1:06.61 JAMES SUROWIEC 88
1:16.09 KATHERINE PELTON 87	NO SWIMMERS	9:02.10 SIMON FINLAYSON 92	1:11.08 GREG COOPER 24
1:56.01 DOROTHY RIORDAN 80	200 M. I.M. WOMEN 85-89	9:02.10 SIMON FINLAYSON 24	1:11.13 JOHN HARLOW 24
100 M. FLY WOMEN 80-84	6:44.53 KATHERINE PELTON 91	9:19.77 MICK MOORE 22	1:17.22 ANDREW GEISZLER 23
2:37.32 MAXINE MERLINO 92	8:50.72 KATHERINE PELTON 86	10:13.06 MICHAEL TOLMAN 24	1:17.81 ALEXANDER HALL 20
2:37.32 MAXINE MERLINO 80	400 M. I.M. WOMEN 85-89	10:48.37 RONALD VIOLI 23	1:18.70 GUY GENIN 23
3:02.05 ELSA MATTILA 82	14:02.65 KATHERINE PELTON 90	11:08.81 RAFAEL F DOMEYKO 24	1:18.81 JOSEPH WALTER 21
200 M. FLY WOMEN 80-84	17:50.88 KATHERINE PELTON 86	11:19.49 ALEX BUCCINO 19	1:19.05 ANDREW POTTER 22
5:29.93 MANINE MERLINO 92	*****	12:01.20 PETER WOLF 20	1:19.49 DANIEL FROST 24
5:29.93 MAXINE MERLINO 80	50 M. FREE WOMEN 90-94	12:42.20 DAVID RATCHFORD 22	1:19.70 WILLIAM HAUSCHILD 24
6:22.38 ELSA MATTILA 82	2:02.38 PEARL MILLER 88	12:52.67 BRENDAN RODRIGUES 24	1:20.24 ALBERT VAN DIJK 21
200 M. I.M. WOMEN 80-84	NO SWIMMERS	1500 M. FREE M E N 19-24	200 M. BRST M E N 19-24
4:47.02 MAXINE MERLINO 92	100 M. FREE WOMEN 90-94	17:12.51 JAMES ALLEN 91	2:30.64 JOHN HARLOW 92
4:47.02 MAXINE MERLINO 80	4:08.22 PEARL MILLER 88	17:34.63 SAM CHESTNUT 22	2:30.64 JOHN HARLOW 24
5:37.82 ELSA MATTILA 82	NO SWIMMERS	17:57.59 SHAWN KLEIN 24	2:43.92 SAM CHESTNUT 22
7:39.74 DOROTHY RIORDAN 80	50 M. BACK WOMEN 90-94	18:33.50 JEFFREY RODDIN 23	2:49.54 WILLIAM HAUSCHILD 24
400 M. I.M. WOMEN 80-84	2:17.25 PEARL MILLER 89	19:25.49 CHIP CASTAGNOS 23	2:51.37 ANDREW GEISZLER 23
10:05.13 MAXINE MERLINO 92	NO SWIMMERS	20:14.00 MARCEL VIFIAN 23	2:51.50 ALEXANDER HALL 20
10:05.13 MAXINE MERLINO 80	200 M. BACK WOMEN 90-94	20:38.37 QUANAH RIDENOUR 22	2:51.78 TIMOTHY KLUG 24
11:57.70 ELSA MATTILA 82	10:47.76 PEARL MILLER 89	21:01.47 C.DEGRANDA 24	2:53.89 ANDREW POTTER 22
*****	NO SWIMMERS	21:20.80 RAFAEL F DOMEYKO 24	2:54.54 DANIEL FROST 24
50 M. FREE WOMEN 85-89	*****	22:26.08 TOD MILLER 22	3:01.18 JOSEPH WALTER 21
51.48 AILEEN SOULE 91	50 M. FREE M E N 19-24	23:25.84 ALBERT VAN DIJK 21	3:09.08 ALAN SUDDUTH 24
57.82 AILEEN SOULE 85	24.52 DAN MENDENHALL 88	50 M. BACK M E N 19-24	50 M. FLY M E N 19-24
1:15.86 MARIAN MCKECHNIE 87	24.66 ANDREW GELLER 24	28.06 CHRIS STEVENSON 87	26.54 ANDREW GELLER 92
100 M. FREE WOMEN 85-89	24.81 GARY YANG 23	28.82 ANDREW GELLER 24	26.54 ANDREW GELLER 24
2:07.61 AILEEN SOULE 91	25.26 RUSSELL KNEIPP 23	28.84 GARY YANG 23	26.65 JEFFREY RODDIN 23
2:23.47 AILEEN SOULE 86	26.08 JAMES WOLFLE 24	29.47 JEFFREY RODDIN 23	26.65 RUSSELL KNEIPP 23
3:00.45 M.B. MCKECHNIE 87	26.09 MICHAEL TOLMAN 24	30.17 KIRK CLEAR 24	27.05 GREG MACKEM 24
200 M. FREE WOMEN 85-89	26.09 MICHAEL NOMURA 24	30.23 BILL EVISON 24	27.06 GREG COOPER 24
4:49.52 AILEEN SOULE 91	26.15 BILL EVISON 24	31.67 ROBERT WELCHER 23	27.14 TAKAYUKI SHIBATA 21
5:24.53 AILEEN SOULE 86	26.33 TAKAYUKI SHIBATA 21	32.34 MICHAEL NOMURA 24	27.44 ROBERT BEGG 23
6:35.53 MARIAN MCKECHNIE 87	26.56 GREGORY N MACKEM 24	32.39 JEFF JANES 19	27.97 JAMES WOLFLE 24
400 M. FREE WOMEN 85-89	26.61 MICHAEL VETTER 22	32.54 MARK CAVORETTO 22	28.16 JEFF JANES 19
13:22.48 ELLA PECKHAM 84	100 M. FREE M E N 19-24	33.00 JOSEPH WALTER 21	28.28 ANDREW S. KROUPA 23
13:30.49 M.B. MCKECHNIE 87	53.90 TONY BATIS 89	100 M. BACK M E N 19-24	100 M. FLY M E N 19-24
800 M. FREE WOMEN 85-89	54.50 GREG COOPER 24	1:01.85 CHRIS STEVENSON 87	58.16 TONY BATIS 89
24:23.38 ANNA BAUSCHER 88	54.88 RUSSELL KNEIPP 23	1:03.30 GARY YANG 23	58.45 RUSSELL KNEIPP 23
30:33.63 MARIAN MCKECHNIE 87	55.04 GARY YANG 23	1:03.62 ANDREW GELLER 24	59.08 GREG MACKEM 24
1500 M. FREE WOMEN 85-89	55.45 ANDREW GELLER 24	1:06.03 JEFFREY RODDIN 23	1:00.60 JOHN HARLOW 24
52:15.77 ANNA BAUSCHER 91	55.99 SIMON FINLAYSON 24	1:06.10 JAMES WOLFLE 24	1:00.90 JEFFREY RODDIN 23
NO SWIMMERS	56.91 JEFFREY RODDIN 23	1:06.82 GUY GENIN 23	1:01.27 GREG COOPER 24
50 M. BACK WOMEN 85-89	57.70 MICHAEL TOLMAN 24	1:07.53 BILL EVISON 24	1:01.48 JAMES WOLFLE 24
58.42 AILEEN SOULE 91	57.74 MICHAEL VETTER 22	1:07.68 JOHN M HARLOW 24	1:03.51 MICHAEL VETTER 22
58.64 AILEEN SOULE 85	57.90 KIRK CLEAR 24	1:10.14 KIRK CLEAR 24	1:03.64 ANDREW POTTER 22
1:27.41 M.B. MCKECHNIE 87	57.97 GUY GENIN 23	1:11.05 ROBERT WELCHER 23	1:04.14 ROBERT BEGG 23
100 M. BACK WOMEN 85-89	200 M. FREE M E N 19-24	1:11.52 JEFF JANES 19	1:04.63 JEFF JANES 19
2:13.13 AILEEN SOULE 91	1:56.99 TONY BATIS 89	200 M. BACK M E N 19-24	200 M. FLY M E N 19-24
2:16.19 AILEEN SOULE 86	2:00.77 SAM CHESTNUT 22	2:15.36 CHRIS STEVENSON 87	2:09.49 KEITH DUNCAN 88

TOP TEN Long Course Meters

2:12.99 JOHN HARLOW	24	4:22.03 STEPHEN STAHL	27	32.22 DANIEL BALDERSON	25	2:09.21 CAMERON REID	87
2:24.39 JAMES WOLFLE	24	4:25.77 JOHN PEARSON	26	32.26 DAVE DOLL	28	2:16.46 JOHN PEARSON	26
2:35.11 ANDREW POTTER	22	4:26.56 TODD CLARK	27	32.52 DALE WALKER	28	2:16.61 GARY ANTONICK	29
2:36.27 GUILLO C. CINTRON	23	4:27.76 JEFFREY RODGERS	26	32.53 MICHAEL GIROD	29	2:17.94 MARK STORI	26
2:37.55 BRENT R. VREELAND	21	4:28.01 MICHAEL COLLINS	26	32.85 AL MOSER	27	2:19.77 ALEX STILES	26
2:46.66 MARCO D SORANI	23	4:33.08 RANDALL EICKHOFF	26	32.96 GREGORY SCHNEIDER	28	2:20.82 NEIL HARPER	27
2:50.77 EDMUND DONALDSON	23	4:33.34 RICHARD B PEASE	28	32.98 MATT CONNERY	28	2:20.92 TODD CLARK	27
200 M. I.M. M E N 19-24		800 M. FREE M E N 25-29		32.99 DANIEL S TOM	28	2:22.36 JUSTIN FARRABEE	26
2:14.08 GREG MACKEM	92	8:36.83 JEFF ERWIN	92	33.04 F.CHARMFOROOSH	26	2:24.79 DONALD SKEOCH	29
2:14.08 GREG MACKEM	24	8:36.83 JEFF ERWIN	28	100 M. BRST M E N 25-29		2:25.02 MATTHEW ROTH	25
2:14.43 JOHN HARLOW	24	8:36.88 JOHN PEARSON	26	1:04.60 DAVID LUNDBERG	89	2:26.11 TIMOTHY WAUD	25
2:19.37 GARY YANG	23	9:01.05 GERRY RODRIGUES	29	1:07.68 DEWEY M WYATT	28	400 M. I.M. M E N 25-29	
2:19.39 SAM CHESTNUT	22	9:39.56 MICHAEL D COLLINS	26	1:10.78 JUSTIN FARRABEE	26	4:34.08 CAMERON REID	87
2:22.04 JEFFREY RODDIN	23	9:39.68 DONALD SKEOCH	29	1:11.98 DALE WALKER	28	4:42.71 TODD ROBINSON	25
2:28.16 CHIP CASTAGNOS	23	9:42.57 JOHN NEIKIRK	28	1:12.03 EVAN DAVIS	25	4:43.17 JOHN PEARSON	26
2:30.07 GUY GENIN	23	9:54.72 JAMES ALLEN	25	1:12.08 JOHN STENROOS	29	4:46.60 BRUCE HAYES	29
2:31.38 MICK MOORE	22	10:09.51 BRADLEY GEORGE	29	1:12.21 MARK STORI	26	4:51.41 JEFF ERWIN	28
2:33.78 ANDREW S. KROUPA	23	10:17.33 GREG P REINER	28	1:12.87 F.CHARMFOROOSH	26	4:52.42 BOBBY PATTEN	29
2:36.13 GUILLO C. CINTRON	23	10:33.83 MARK WOODARD	25	1:13.24 MATT CONNERY	28	4:54.08 GARY ANTONICK	29
400 M. I.M. M E N 19-24		1500 M. FREE M E N 25-29		1:13.52 GREGORY SCHNEIDER	28	4:55.23 MARK STORI	26
4:48.56 GREG MACKEM	92	16:28.69 CAMERON REID	87	1:13.59 LUKE SALERNO	25	4:58.99 TODD CLARK	27
4:48.56 GREG MACKEM	24	17:06.66 BOBBY PATTEN	29	200 M. BRST M E N 25-29		5:02.11 MICHAEL COLLINS	26
5:04.39 SIMON FINLAYSON	24	17:31.89 TODD CLARK	27	2:30.96 MARK CHATFIELD	82	5:07.16 DONALD SKEOCH	29
5:37.11 ALEXANDER HALL	20	17:43.83 MICHAEL COLLINS	26	2:33.63 JOHN PEARSON	26	*****	
5:43.88 WILLIAM SCHWARTZ	24	17:53.38 DENNIS TESCH	27	2:37.04 DEWEY M WYATT	28	50 M. FREE M E N 30-34	
6:02.94 STUART BARTON	24	18:46.83 NEIL HARPER	27	2:38.45 JUSTIN FARRABEE	26	23.21 ROWDY GAINES	90
6:18.35 RONALD VIOLI	23	18:56.39 KEITH KIROL	25	2:39.16 F.CHARMFOROOSH	26	23.94 ROWDY GAINES	33
7:19.62 LJ SCHMITT	23	19:11.31 JOHN NEIKIRK	28	2:39.60 DALE WALKER	28	24.32 JOHN SMITH	30
*****		19:30.34 JAMES E FEGAN	28	2:39.70 LUKE SALERNO	25	24.92 JAMES LILLEY	32
50 M. FREE M E N 25-29		19:34.50 KURT DICKSON	25	2:39.83 T.SCHNITTKER	25	24.98 CHRIS HANCOCK	31
22.59 KEVIN DEFORREST	83	19:41.76 DAMON MACKERT	28	2:40.19 MARK STORI	26	25.04 VERN ROGERS	31
24.04 JOHN MATSON	26	50 M. BACK M E N 25-29		2:40.66 MATT CONNERY	28	25.05 CRAIG MALLERY	30
24.14 ROBERT PEEL	27	27.48 CLAY BRITT	89	2:41.57 ROBERT FUENTES	28	25.10 GREG REMMERT	30
24.51 KIP DYE	28	28.33 JAY YARID	29	50 M. FLY M E N 25-29		25.17 BRYANT LUM	30
24.67 STEPHEN STAHL	27	28.41 MICHAEL CREASER	26	25.16 DEFORREST/BOTTOM	84	25.42 JOE REINHARDT	31
24.75 STUART CROMARTY	28	28.66 NEIL HARPER	27	25.48 DIRK MARSHALL	29	25.61 CHRIS DIXON	34
24.84 MATT JONES	26	28.73 TODD ROBINSON	25	25.68 ANDERS RASMUSSEN	29	100 M. FREE M E N 30-34	
24.89 BERT BERGEN	25	29.87 RANDY HYRE	28	26.02 MATT JONES	26	51.50 ROWDY GAINES	91
24.96 BRUCE HAYES	29	30.02 KURT MURDOCH	26	26.78 JAMES FEGAN	28	52.53 ROWDY GAINES	33
25.01 TOM MONTOYA	25	31.03 DAVID ANDERSON	25	26.87 BOBBY PATTEN	29	54.11 JAMES LILLEY	32
25.06 DIRK MARSHALL	29	31.20 MATHEW ROTH	25	26.87 JACK C. MC KEAN	27	54.27 CHRIS HANCOCK	31
100 M. FREE M E N 25-29		31.34 KURT DICKSON	25	26.90 JAMES G MIDDLETON	29	54.59 JOHN SMITH	30
51.25 JIM MONTGOMERY	81	31.40 JOSEPH HOESS	27	27.17 STUART CROMARTY	28	54.92 GREG REMMERT	30
52.08 JOHN KEPPELER	25	100 M. BACK M E N 25-29		27.21 BRIAN JONES	26	55.19 BRYANT LUM	30
52.45 JOHN MATSON	26	58.24 JOHN KEPPELER	92	27.21 CHRIS BOND	25	55.79 CRAIG MALLERY	30
53.66 DIRK MARSHALL	29	58.24 JOHN KEPPELER	25	100 M. FLY M E N 25-29		55.98 VERN ROGERS	31
53.82 BRUCE HAYES	29	1:00.28 JAY YARID	29	56.34 MICHAEL BOTTOM	84	56.34 ROBERT HUDEK	30
53.94 STEPHEN STAHL	27	1:01.21 MICHAEL CREASER	26	56.90 JOHN KEPPELER	25	56.59 HOLDEN BANK	32
54.30 MATT JONES	26	1:03.31 NEIL HARPER	27	57.38 DIRK MARSHALL	29	200 M. FREE M E N 30-34	
54.74 KIP DYE	28	1:05.06 MARK STORI	26	57.71 MATT JONES	26	1:54.04 ROWDY GAINES	90
54.92 TOM MONTOYA	25	1:05.78 MATHEW ROTH	25	59.45 JAMES FEGAN	28	1:59.82 CHRIS HANCOCK	31
55.04 STUART CROMARTY	28	1:06.10 KURT DICKSON	25	59.74 IGOR VAZHENIN	28	2:00.04 JAMES LILLEY	32
55.13 CHRIS BOND	25	1:06.13 DAVID GREER	27	1:00.21 STEPHEN STAHL	27	2:00.41 DAVID LUNDBERG	31
200 M. FREE M E N 25-29		1:06.21 JIM SHRULL	27	1:00.52 MICHAEL CREASER	26	2:00.58 ROBERT HUDEK	30
1:52.17 JOHN KEPPELER	92	1:06.37 JIM RHYNE	26	1:00.93 BRIAN JONES	26	2:02.12 MIKE KECK	32
1:52.17 JOHN KEPPELER	25	200 M. BACK M E N 25-29		1:01.18 GARY ANTONICK	29	2:02.98 GREG REMMERT	30
1:58.30 BRUCE HAYES	29	2:07.57 JOHN KEPPELER	92	1:01.43 MATTHEW ROTH	25	2:03.25 L.MEISENHEIMER	34
1:59.75 STEPHEN STAHL	27	2:07.57 JOHN KEPPELER	25	200 M. FLY M E N 25-29		2:04.56 CRIS A. WILLIAMS	31
2:00.12 JOHN PEARSON	26	2:11.52 JAY YARID	29	2:06.88 JIM BELARDI	82	2:05.24 DENNIS BAKER	31
2:00.91 TOM MONTOYA	25	2:17.77 ALEX STILES	26	2:08.99 TODD ROBINSON	25	2:05.86 M.FITZGERALD	34
2:01.17 IGOR VAZHENIN	28	2:18.88 MICHAEL CREASER	26	2:10.73 BOBBY PATTEN	29	400 M. FREE M E N 30-34	
2:01.63 JEFF ERWIN	28	2:25.73 MATHEW ROTH	25	2:14.56 IGOR VAZHENIN	28	4:08.70 JIM MONTGOMERY	86
2:02.43 JEFFREY RODGERS	26	2:26.76 TOM CREECH	25	2:15.07 GARY ANTONICK	29	4:17.65 ROBERT HUDEK	30
2:02.86 CHRIS BOND	25	2:27.25 JIM RHYNE	26	2:19.11 JAMES FEGAN	28	4:20.96 BILL PALMER	31
2:03.49 STUART CROMARTY	28	2:27.38 GARY ANTONICK	29	2:20.17 MATTHEW ROTH	25	4:21.89 THOMAS G. SMITH	30
400 M. FREE M E N 25-29		2:27.84 DAVID GREER	27	2:20.46 DONALD SKEOCH	29	4:23.20 MIKE KECK	32
4:07.73 CAMERON REID	87	2:27.98 JOSEPH LILEIKIS	29	2:24.33 RANDALL EICKHOFF	26	4:28.35 L.J. MEISENHEIMER	34
4:14.58 BRUCE HAYES	29	50 M. BRST M E N 25-29		2:24.73 ROBERT HARRIS	29	4:28.50 CRIS A. WILLIAMS	31
4:19.82 ALEX STILES	26	29.77 DEWEY WYATT	92	2:25.97 ROBERT FUENTES	28	4:29.49 JOHN SMITH	30
4:19.97 TOM MONTOYA	25	29.77 DEWEY M WYATT	28	200 M. I.M. M E N 25-29		4:33.70 SCOTT SHAKE	34

TOP TEN Long Course Meters

4:34.22	PETER HOLLETT	32	32.03	PHILIPPE CALAIS	33	2:20.90	PETER DARDARIS	33	8:52.22	DAN STEPHENSON	35
4:34.70	STEVEN SCHMIDT	30	32.03	DAVID MALSBURY	31	2:21.93	DAVID GUTHRIE	31	9:09.52	DAVID SHEPHERD	36
800 M. FREE M E N 30-34			32.09	MARC SCHLATTER	33	2:22.13	CHARLES GROEN	32	9:16.75	TIM HARVEY	37
8:46.99	JIM MONTGOMERY	86	32.58	MICHAEL CASCIATO	32	2:22.40	PAUL FRENTSOS	31	9:26.14	HOWARD JAY	36
8:51.23	JEFF STILING	31	100 M. BRST M E N 30-34			2:23.29	KURT RADECKE	30	9:30.14	TIM GLENN	36
8:53.13	ROBERT HUDEK	30	1:05.65	DAVID LUNDBERG	91	2:23.59	HOLDEN BANK	32	9:38.20	MARK HAHN	35
9:11.68	MIKE KECK	32	1:05.85	DAVID LUNDBERG	31	2:23.91	GERALD FERRIS	31	9:39.81	WILLIAM REEVES	39
9:22.89	STEPHEN NAGLE	34	1:06.16	DAVID GUTHRIE	31	400 M. I.M. M E N 30-34			9:42.59	ROBERT A BENSON	35
9:27.33	PETER HOLLETT	32	1:10.96	MARK STOHRER	30	4:40.44	DAVID LUNDBERG	92	9:43.15	LARRY WOOD	38
9:42.32	MARK JONES	30	1:11.24	PHILIPPE CALAIS	33	4:40.44	DAVID LUNDBERG	31	9:48.44	STEVE C BREITER	36
9:43.77	CHARLES GROEN	32	1:11.54	MICHAEL SLOWEY	34	4:52.90	THOMAS G. SMITH	30	1500 M. FREE M E N 35-39		
9:46.83	BOB D STENZ	30	1:11.75	HOLDEN BANK	32	4:56.68	MIKE KECK	32	17:26.29	JIM MCCONICA	89
9:47.81	RAY A PECK	32	1:11.78	RON SCHAFFER	34	5:00.08	ROBERT HUDEK	30	17:43.62	JIM MONTGOMERY	37
9:52.50	JOHN APKER	31	1:12.08	BENN DOYLE	33	5:06.50	PAUL FRENTSOS	31	17:48.17	ROB COPELAND	35
1500 M. FREE M E N 30-34			1:12.28	MICHAEL CASCIATO	32	5:07.04	JONATHAN MANN	32	18:23.59	MARK HAHN	35
16:42.28	RON NEUGENT	91	1:12.38	CHRIS ERICKSON	32	5:09.76	CHARLES GROEN	32	18:35.99	LARRY WOOD	38
17:08.16	CRAIG NADEL	32	200 M. BRST M E N 30-34			5:10.07	SCOTT SHAKE	34	18:38.23	STUART CORLISS	36
18:22.20	TED CHAPPELL	30	2:24.06	DAVID LUNDBERG	91	5:11.10	M.FITZGERALD	34	18:41.02	WILLIAM FENNER	36
18:39.09	DOUG ASBURY	32	2:24.66	DAVID LUNDBERG	31	5:17.44	KURT RADECKE	30	18:44.88	WILLIAM W. REEVES	39
18:57.32	KARL KOLB	31	2:26.18	DAVID GUTHRIE	32	*****			18:50.70	STEVE C BREITER	36
18:59.62	STEVE SCHNIDT	30	2:35.63	MARK STOHRER	30	50 M. FREE M E N 35-39			18:56.31	ROBERT A BENSON	35
19:20.65	HAZEN KENT	30	2:37.84	RON SCHAFFER	34	24.72	RICHARD HESS	90	19:01.48	GREGORY JOHNSON	35
19:21.12	RAY A PECK	32	2:37.84	HOLDEN BANK	32	24.81	STU MARVIN	36	50 M. BACK M E N 35-39		
19:25.41	DOUG MOYSE	34	2:39.51	MICHAEL CASCIATO	32	25.29	STILL ARTLEY	37	28.04	THOMPSON MANN	78
19:40.23	PATRICK HERRERA	32	2:40.05	PHILIPPE CALAIS	33	25.30	M.B STINCHCOMBE	35	28.60	MIKE MCINTYRE	39
19:44.72	STEVE YOED	34	2:40.20	CHRIS ERICKSON	32	25.31	ROGER KAHN	36	28.67	MARK LIST	36
50 M. BACK M E N 30-34			2:40.45	MICHAEL SLOWEY	34	25.32	WILLIAM VICKERY	38	29.56	CLAY EVANS	38
27.32	DIX OZIER	88	2:41.46	ANDREW BRENNAN	31	25.42	MIKE MCINTYRE	39	29.78	STU MARVIN	36
28.06	CLAY BRITT	31	50 M. FLY M E N 30-34			25.44	RICHARD HESS	37	30.26	WILL ARTLEY	37
29.21	PETER DARDARIS	33	25.31	MIKE BOTTOM	88	25.54	BRYAN AUSTIN	37	30.39	MICHAEL STAMM	39
29.44	JOE REINHARDT	31	26.02	CLAY BRITT	31	25.58	DAVID HAGUE	38	30.63	RICK SCHACKLE	36
30.01	CURT LACOUNT	33	26.44	WILLIAM SPECHT	34	25.61	BOB CROWDER	36	30.68	PAUL WINDRATH	38
30.32	SCOTT SHAKE	34	26.74	BRYANT LUM	30	100 M. FREE M E N 35-39			30.82	DAVID WALTERS	35
30.42	RICK REYNOLDS	31	26.81	CRAIG MALLERY	30	54.28	JAMES MONTGOMERY	92	31.06	DAVID VANDAM	36
30.43	BRYANT LUM	30	27.03	CHRIS WATERS	30	54.28	JAMES MONTGOMERY	37	100 M. BACK M E N 35-39		
30.46	GERALD FERRIS	31	27.21	JEFF STILING	31	54.43	STU MARVIN	36	1:01.85	TOM WOLF	90
30.53	DOUG PORTELANCE	34	27.28	CHRIS HANCOCK	31	54.46	DAN STEPHENSON	35	1:01.88	MARK LIST	36
30.70	DAVID MELGAARD	31	27.40	DENNIS BAKER	31	54.96	WILL ARTLEY	37	1:02.66	WILL ARTLEY	37
100 M. BACK M E N 30-34			27.45	THOMAS G. SMITH	30	55.65	RICHARD HESS	37	1:02.69	MIKE MCINTYRE	39
1:00.19	DAVID LUNDBERG	92	27.62	PAUL FRENTSOS	31	55.77	BRYAN AUSTIN	37	1:03.60	CLAY EVANS	38
1:00.19	DAVID LUNDBERG	31	27.62	TED SOLTYS	32	56.22	MARK LIST	36	1:03.99	STU MARVIN	36
1:01.46	CLAY BRITT	31	100 M. FLY M E N 30-34			56.27	TIM GLENN	36	1:05.46	RICK SCHACKLE	36
1:01.69	WILLIAM SPECHT	34	56.64	MIKE BOTTOM	88	56.33	M.B STINCHCOMBE	35	1:06.06	ROBERT CROWDER	36
1:02.54	PETER DARDARIS	33	58.15	JEFF STILING	31	56.58	DAVID HAGUE	38	1:06.22	PAUL WINDRATH	38
1:02.91	JOE REINHARDT	31	58.85	WILLIAM SPECHT	34	200 M. FREE M E N 35-39			1:06.59	MICHAEL STAMM	39
1:03.06	CHARLES GROEN	32	58.91	DENNIS BAKER	31	1:57.95	DAN STEPHENSON	92	1:06.81	DAVID VANDAM	36
1:03.14	JAMES LILLEY	32	1:00.03	JAMES LILLEY	32	1:57.95	DAN STEPHENSON	35	200 M. BACK M E N 35-39		
1:04.49	GERALD FERRIS	31	1:00.41	CHRIS WATERS	30	2:02.76	STU MARVIN	36	2:13.83	TOM WOLF	90
1:05.17	RICK REYNOLDS	31	1:00.58	BRYANT LUM	30	2:02.78	DAVID SHEPHERD	36	2:14.81	MARK LIST	36
1:05.45	DOUG PORTELANCE	34	1:00.81	CURT LACOUNT	33	2:03.37	JAMES BELARDI	35	2:20.12	RICK SCHACKLE	36
200 M. BACK M E N 30-34			1:01.22	PAUL FRENTSOS	31	2:04.56	TIM GLENN	36	2:20.95	DAN STEPHENSON	35
2:11.77	THOMAS WOLF	87	1:01.85	JAY JONES	30	2:06.48	BRYAN AUSTIN	37	2:21.21	ROBERT CROWDER	36
2:17.76	SCOTT SHAKE	34	1:01.88	STEVEN VELA	31	2:06.49	LARRY WOOD	38	2:23.97	PAUL WINDRATH	38
2:18.24	PETER DARDARIS	33	200 M. FLY M E N 30-34			2:06.79	STUART CORLISS	36	2:24.25	CLAY EVANS	38
2:21.36	CLAY BRITT	31	2:07.71	JIM BELARDI	87	2:07.17	ROBERT CROWDER	36	2:26.67	DAVID BURLESON	35
2:22.31	MIKE KECK	32	2:13.96	THOMAS G. SMITH	30	2:07.18	LEE MENCH	39	2:27.27	STU MARVIN	36
2:22.78	DOUG PORTELANCE	34	2:15.79	DENNIS BAKER	31	400 M. FREE M E N 35-39			2:27.42	MICHAEL STAMM	39
2:25.33	RICK REYNOLDS	31	2:19.57	MIKE KECK	32	4:15.49	DAN STEPHENSON	92	2:27.97	SCOTT CREIGHTON	36
2:27.94	GERALD B FERRIS	31	2:21.10	STEVEN SCHMIDT	30	4:15.49	DAN STEPHENSON	35	50 M. BRST M E N 35-39		
2:28.76	STEPHEN LUCY	31	2:22.35	DOUG J WILLIAMSON	30	4:19.99	JAMES MONTGOMERY	37	30.79	DOUG MALCOLM	92
2:30.60	WAYDE MULHERN	33	2:23.64	JONATHAN MANN	32	4:21.54	DAVID SHEPHERD	36	30.79	DOUG MALCOLM	35
2:31.90	PATRICK HERRERA	32	2:28.23	KARL KOLB	31	4:28.86	MICHAEL MANN	37	31.25	GREGORY SMITH	36
50 M. BRST M E N 30-34			2:28.37	KIRK BUESE	32	4:31.39	TIM HARVEY	37	31.79	RIC HOFSTETTER	35
29.42	DAVID GUTHRIE	92	2:31.24	TIMOTHY M. DODGE	31	4:32.44	HOWARD JAY	36	31.82	STUART CORLISS	36
29.42	DAVID GUTHRIE	31	2:33.26	JOHN APKER	31	4:33.17	ROB COPELAND	35	32.76	KARL H. KAZMAIER	37
30.41	MARK STOHRER	30	200 M. I.M. M E N 30-34			4:34.29	WILLIAM W. REEVES	39	32.94	MATTHEW KANZLER	35
31.66	BENN DOYLE	33	2:09.69	DAVID LUNDBERG	91	4:34.45	STUART CORLISS	36	33.23	JOERGEN FROEHLICH	36
31.70	JOSE LANDRUA	32	2:10.68	DAVID LUNDBERG	31	4:36.02	LARRY WOOD	38	33.59	JOE SCHUSTER	39
31.79	HOLDEN BANK	32	2:14.29	JEFF STILING	31	800 M. FREE M E N 35-39			33.61	DAVID H. WESLEY	39
31.87	MICHAEL SLOWEY	34	2:15.76	MIKE KECK	32	8:52.22	DAN STEPHENSON	92	33.75	DAVE SAMUELSON	39

TOP TEN

Long Course Meters

100 M. BRST M E N 35-39	2:25.63 HOWARD JAY	36	9:40.39 ROBERT STRAUSS	40	1:11.27 MIKE DIRKSEN	43
1:07.90 MARK SCHUMAN	2:25.78 REED FARRIS	37	9:47.47 EDWARD CROSSMORE	44	1:12.78 ARTHUR HALTTUNEN	42
1:08.73 MARK SCHUMAN	400 M. I.M. M E N 35-39		9:48.63 STEPHEN JOHNSON	44	1:14.59 GREGORY HARRISON	40
1:09.80 DOUG MALCOLM	4:55.13 JAMES BELARDI	92	9:56.05 DAVID TANNER	42	1:14.90 ALLEN STARK	43
1:10.43 GREGORY SMITH	4:55.13 JAMES BELARDI	35	9:59.68 JAMES BAYLES	40	1:17.44 MABRY TYSON	44
1:10.46 BRUCE HOWELL	4:58.92 STUART CORLISS	36	1500 M. FREE M E N 40-44		1:17.59 IAN THOMPSON	43
1:10.73 STUART CORLISS	5:01.89 DAN STEPHENSON	35	17:30.13 KEVIN POLANSKY	90	1:18.06 STEVEN HOLLOWAY	42
1:11.30 MATTHEW KANZLER	5:02.97 DAVID SHEPHERD	36	17:43.60 TODD BRYAN	41	200 M. BRST M E N 40-44	
1:13.44 KARL H. KAZMAIER	5:05.91 RICK SCHACKLE	36	18:59.16 JOHN NOLAN	43	2:32.17 RICK COLELLA	92
1:14.40 DAVID H. WESLEY	5:08.25 MICHAEL MANN	37	19:03.45 STEVE JOHNSON	44	2:32.17 RICK COLELLA	40
1:14.95 RICHARD ENRIGHT	5:11.38 CLAY EVANS	38	19:07.99 FRANK THOMPSON	40	2:37.04 MIKE DIRKSEN	43
1:15.16 JUERGEN FROEHLICH	5:11.59 DAVID VANDAM	36	19:14.86 BRUCE JOHNSON	41	2:37.83 GREGORY HARRISON	40
200 M. BRST M E N 35-39	5:12.39 ROB COPELAND	35	19:16.90 JOEL R WILSON	43	2:39.04 PEDER DAHLBERG	43
2:33.05 MARK SCHUMAN	5:12.54 NEIL WASSERMAN	37	19:32.24 HUNTER YOST	41	2:40.24 C.MILTENBERGER	40
2:33.05 MARK SCHUMAN	*****		19:39.27 DAVID H. OWEN	40	2:42.01 ARTHUR HALTTUNEN	42
2:35.37 STUART CORLISS	50 M. FREE M E N 40-44		19:50.49 LARRY CHASE	43	2:44.87 PETER WISNER	44
2:36.24 MATTHEW KANZLER	24.93 TOM WHATLEY	92	19:56.24 IAN THOMPSON	43	2:48.35 ALLEN STARK	43
2:40.23 GREGORY SMITH	24.93 TOM WHATLEY	40	50 M. BACK M E N 40-44		2:48.47 IAN THOMPSON	43
2:44.33 RICHARD ENRIGHT	25.99 BRYAN BATEMAN	44	29.38 PETER O'KEEFFE	90	2:53.10 STEVEN HOLLOWAY	42
2:44.70 DANIEL JOHNSON	26.04 C.MILTENBERGER	40	30.25 CHUCK WOLFF	40	50 M. FLY M E N 40-44	
2:45.91 DOUG MALCOLM	26.21 RICHARD PETERSON	41	30.47 RICHARD BOBER	41	27.04 JOHN FOOTE	91
2:47.17 PATRICK DIBIASE	26.59 JOHN FOOTE JR.	41	30.62 WILLIAM TINGLEY	42	27.67 JOHN FOOTE JR.	41
2:48.83 DAVID H. WESLEY	26.68 KURT GERHARDT	41	30.93 GARY HAFER	41	28.10 MIKE DIRKSEN	43
2:48.89 JUERGEN FROEHLICH	26.70 JOHN BENEDICK	41	30.95 LAWRENCE BARBIERE	41	28.49 TOM WHATLEY	40
50 M. FLY M E N 35-39	26.75 PETER BRUNSON	40	31.23 KHAN MOSHARRAF	42	28.51 LARRY CHASE	43
26.35 PETER MUNGER	26.99 BILL BEHUN	40	31.56 PETER O'BRIEN	43	28.56 LAWRENCE DAY	41
26.41 MARK SCHUMAN	27.03 ALAN BELL	42	31.90 CASH O'DONNELL	43	28.77 LARRY WRIGHT	43
26.87 JAMES BELARDI	100 M. FREE M E N 40-44		31.95 DICK GREEN	40	28.91 DONALD R BACCI	40
26.94 DAVID HAGUE	56.36 TIM GARTON	83	32.04 STEVE MANN	40	28.94 STEPHEN BOSTER	41
27.01 CHARLES NORELLI	56.83 TOM WHATLEY	40	100 M. BACK M E N 40-44		29.01 KURT GERHARDT	41
27.44 BRUCE HOWELL	57.95 KEVIN POLANSKY	42	1:03.39 PETER O'KEEFFE	90	29.01 ARTHUR DEFFAA	43
27.45 ROGER KAHN	58.01 ROBERT STRAUSS	40	1:04.80 CHUCK WOLFF	40	100 M. FLY M E N 40-44	
27.45 JAMES MONTGOMERY	58.41 PETER BRUNSON	40	1:05.64 RICHARD BOBER	41	1:02.05 LANCE LARSON	80
27.49 DAVE HANNULA	59.13 RICK PETERSON	40	1:06.96 WILLIAM TINGLEY	42	1:02.25 LAWRENCE DAY	41
27.64 WILL ARTLEY	59.27 ALAN BELL	42	1:07.48 GARY HAFER	41	1:03.88 DAVID TANNER	42
27.65 RICHARD HESS	59.29 GARY HAFER	41	1:08.42 LAWRENCE BARBIERE	41	1:04.05 JOHN MCCALL	40
100 M. FLY M E N 35-39	59.83 MIKE SHERRILL	41	1:08.76 PETER O'BRIEN	43	1:04.33 RANDY WILLIAMS	41
58.08 JAMES BELARDI	59.99 DICK GREEN	40	1:09.37 R. TOD SPIEKER	44	1:04.42 STEPHEN BOSTER	41
58.08 JAMES BELARDI	1:00.01 WILLIAM BONHAM	40	1:09.65 CASH O'DONNELL	43	1:04.64 ALAN BELL	42
58.68 MARK SCHUMAN	200 M. FREE M E N 40-44		1:09.77 TOM STEARNS	40	1:04.94 ARTHUR DEFFAA	43
59.39 CHARLES NORELLI	2:04.82 KEVIN POLANSKY	90	1:09.89 LONNY HARRISON	43	1:05.50 GARY HAFER	41
59.98 STUART CORLISS	2:05.06 TIMOTHY BRODERICK	41	200 M. BACK M E N 40-44		1:06.30 RICHARD HAAS	42
1:00.61 DAN STEPHENSON	2:06.26 ROBERT STRAUSS	40	2:18.17 PETER O'KEEFFE	90	1:06.69 RICHARD BALL	41
1:00.79 RICHARD HESS	2:06.90 KEVIN POLANSKY	42	2:23.66 CHUCK WOLFF	40	200 M. FLY M E N 40-44	
1:00.80 KERRY O'BRIEN	2:08.07 PETER BRUNSON	40	2:24.25 RICHARD BOBER	41	2:23.05 BOO GALLAS	88
1:01.63 RICK SCHACKLE	2:08.36 MIKE SHERRILL	42	2:29.52 KURT MOEHLMANN	40	2:25.29 DAVID TANNER	42
1:02.38 DARRELL SMITH	2:09.30 TOM WHATLEY	40	2:30.12 R. TOD SPIEKER	44	2:25.31 RANDY WILLIAMS	41
1:02.56 MICHAEL HEATHER	2:09.48 DAVID TANNER	42	2:30.31 LAWRENCE BARBIERE	41	2:28.46 ALAN BELL	42
200 M. FLY M E N 35-39	2:11.15 FRED SCHLICHER	44	2:30.53 WILLIAM TINGLEY	42	2:29.46 RICK WALTON	40
2:09.18 JAMES BELARDI	2:12.10 STEPHEN JOHNSON	44	2:31.97 FRANK THOMPSON	40	2:31.29 RONALD KANE	40
2:09.18 JAMES BELARDI	2:12.94 PETER WISNER	44	2:33.19 ROBERT GIRVIN	42	2:34.55 DAVID LEVINSON	42
2:15.93 DAN STEPHENSON	400 M. FREE M E N 40-44		2:33.91 GARY HAFER	41	2:35.38 RICHARD HAAS	42
2:16.63 KERRY O'BRIEN	4:26.60 KEVIN POLANSKY	90	2:33.92 PETER O'BRIEN	43	2:35.39 BILL VOGLER	42
2:17.68 DAVID SHEPHERD	4:31.78 ROBERT STRAUSS	40	50 M. BRST M E N 40-44		2:35.81 JOEL R WILSON	43
2:18.74 DAVID VANDAM	4:31.92 KEVIN POLANSKY	42	30.82 PEDER DAHLBERG	92	2:37.63 BRUCE JOHNSON	41
2:19.45 MATTHEW KANZLER	4:32.00 PETER BRUNSON	40	30.82 PEDER DAHLBERG	43	200 M. I.M. M E N 40-44	
2:19.59 HOWARD JAY	4:32.04 TODD BRYAN	41	31.35 C.MILTENBERGER	40	2:18.92 RICK COLELLA	92
2:20.71 KERRY L O'BRIEN	4:36.12 RANDY WILLIAMS	41	32.49 RICK COLELLA	40	2:18.92 RICK COLELLA	40
2:20.89 WILLIAM W. REEVES	4:44.26 STEPHEN JOHNSON	44	32.83 ARTHUR HALTTUNEN	42	2:24.54 TOM WHATLEY	40
2:24.60 ROB COPELAND	4:46.35 NEIL KOROSTOFF	43	33.45 TOM WHATLEY	40	2:27.28 CHUCK WOLFF	40
200 M. I.M. M E N 35-39	4:47.26 EDWARD CROSSMORE	44	33.51 ALLEN STARK	43	2:29.63 MIKE SHERRILL	42
2:16.49 MARK SCHUMAN	4:47.74 DAVID H. OWEN	40	33.60 JOHN BENEDICK	41	2:29.71 ARTHUR HALTTUNEN	42
2:16.49 MARK SCHUMAN	4:47.81 JOHN NOLAN	43	34.12 GREGORY HARRISON	40	2:30.64 LONNY HARRISON	43
2:18.55 STUART CORLISS	800 M. FREE M E N 40-44		34.38 MABRY TYSON	44	2:31.13 KEVIN POLANSKY	42
2:19.28 DAN STEPHENSON	9:19.37 KEVIN POLANSKY	90	34.99 STEVEN HOLLOWAY	42	2:32.57 ROBERT GIRVIN	42
2:20.97 RICHARD HESS	9:26.28 KEVIN POLANSKY	42	100 M. BRST M E N 40-44		2:32.75 LARRY CHASE	43
2:21.69 CLAY EVANS	9:27.29 TODD BRYAN	41	1:09.95 PEDER DAHLBERG	92	2:33.51 JAMES BAYLES	40
2:24.74 WILLIAM W. REEVES	9:27.70 RANDY WILLIAMS	41	1:09.95 PEDER DAHLBERG	43	400 M. I.M. M E N 40-44	
2:25.00 MATTHEW KANZLER	9:35.75 PETER BRUNSON	40	1:10.53 RICK COLELLA	40	4:57.46 RICK COLELLA	92
2:25.51 MICHAEL MANN	9:37.49 MIKE SHERRILL	42	1:10.78 C.MILTENBERGER	40	4:57.46 RICK COLELLA	40

TOP TEN Long Course Meters

5:11.86	RANDY WILLIAMS	41	1500 M. FREE M E N 45-49	5:19.95	BILL ABBOTT	46	5:41.72	DANIEL ROGACKI	45	
5:18.01	KEVIN POLANSKY	42	18:34.73 ED HINSHAW	83	1:21.91	STEVEN PETERSON	45	5:44.58	BRETT SORGE	45
5:20.95	DAVID TANAGLIA	40	19:05.24 ANDREW MC PHERSON	45	200 M. BRST M E N 45-49		5:47.29	JAMES BEGLINGER	46	
5:22.16	ROBERT STRAUSS	40	19:14.91 RICHARD BOYD	49	2:41.88	PETER WISNER	92	5:51.19	HARRY WICKENS	48
5:23.92	JAMES BAYLES	40	19:29.22 DAVID J GRAY	46	2:41.88	PETER WISNER	45	*****		
5:32.13	HUNTER YOST	41	20:32.37 JOHN LANE	46	2:42.29	ROBERT STRAND	46	50 M. FREE M E N 50-54		
5:32.40	JOHN NOLAN	43	20:35.91 ANDY BANKS	45	2:44.71	ROBERT LEWIS	48	26.16	DON HILL	83
5:32.80	DAVID LEVINSON	42	20:43.24 FRED LEATHERMAN	45	2:50.79	JOHN SULTAN	45	27.20	BRUCE CLARK	50
5:35.27	FRANK THOMPSON	40	20:45.87 MILTON ACKERMAN	45	2:54.16	RICHARD BOYD	49	27.33	THOMAS OLANDER	50
*****			20:47.57 TOM D HENDREY	45	2:54.66	RICK STAFFORD	45	27.65	JACK GEOGHEGAN	50
50 M. FREE M E N 45-49			20:55.67 ALAN HOLLY	45	2:54.88	ALLEN MURRAY	47	27.89	TOM ANGELL	52
25.30	RICHARD ABRAHAMS	90	21:04.24 JAMES M BEGLINGER	46	2:55.86	DANIEL ROGACKI	45	28.29	RICHARD BASSI	51
25.60	RICHARD ABRAHAMS	47	50 M. BACK M E N 45-49		2:57.18	GARY PARLAPIANO	45	28.40	MICHAEL MEALIFFE	51
25.77	STEVE CLARK	49	30.67 RICHARD BURNS	88	2:57.85	TOM BOAK	48	28.62	WILL GOSNOLD	51
26.08	ANDREW MCPHERSON	45	30.77 HUGH WILDER	45	50 M. FLY M E N 45-49		28.67	JAMES KRUEGER	53	
26.31	DAN THOMPSON	46	31.01 TIM BIRNIE	46	27.12	DAN THOMPSON	92	28.74	TOM WINTERS	52
26.65	DAN ROGACKI	45	31.26 DAN THOMPSON	46	27.12	DAN THOMPSON	46	28.80	JERRY KATZ	53
26.76	RICHARD WOODROW	48	31.47 RICHARD BURNS	49	27.88	RICHARD ABRAHAMS	47	100 M. FREE M E N 50-54		
26.93	ROBERT STRAND	46	31.55 ROBERT SMITH	49	28.34	ANDREW MCPHERSON	45	59.25	DON HILL	83
26.98	THOMAS MEEHAN	45	32.00 DAN ROGACKI	45	28.66	STEVE CLARK	49	1:00.44	BRUCE CLARK	50
27.11	HUGH WILDER	45	32.03 ANDREW MC PHERSON	45	28.81	RICHARD WOODROW	48	1:00.56	JACK GEOGHEGAN	50
27.18	JAMES ELDER	49	32.14 JAMES BEGLINGER	46	28.91	JOHN PHILLIPS	45	1:00.77	EDWARD CAZALET	50
100 M. FREE M E N 45-49			32.15 STEVE CLARK	49	29.00	HARRY GREENFIELD	47	1:02.13	WILL GOSNOLD	51
57.04	ANDREW MCPHERSON	92	32.16 ROBERT STRAND	46	29.03	DANIEL ROGACKI	45	1:02.15	ROBERT WILLIAMS	50
57.04	ANDREW MCPHERSON	45	100 M. BACK M E N 45-49		29.18	HUGH WILDER	45	1:02.68	BILL WOOD	50
57.46	TIMOTHY GARTON	49	1:06.00 HUGH WILDER	92	29.38	THOMAS MEEHAN	45	1:02.80	THOMAS OLANDER	50
58.28	RICHARD ABRAHAMS	47	1:06.00 HUGH WILDER	45	100 M. FLY M E N 45-49		1:02.82	RICHARD BASSI	51	
58.33	STEVE CLARK	49	1:07.24 TIM BIRNIE	46	1:02.84	ANDREW MCPHERSON	92	1:03.63	JAMES CRANE	50
59.15	HUGH WILDER	45	1:08.79 RICHARD BURNS	49	1:02.84	ANDREW MCPHERSON	45	1:03.89	TOM ANGELL	52
59.21	PETER WISNER	45	1:08.96 JOHN CALVERT	46	1:03.38	RICHARD ABRAHAMS	47	200 M. FREE M E N 50-54		
59.69	THOMAS MEEHAN	45	1:09.77 JOHN PHILLIPS	45	1:07.00	THOMAS MEEHAN	45	2:14.39	EDWARD HINSHAW	88
59.95	RICHARD WOODROW	48	1:10.40 ROBERT SMITH	49	1:07.47	HARRY GREENFIELD	47	2:15.69	EDWARD CAZALET	50
59.99	PAUL MCCORMICK	45	1:10.66 DAN ROGACKI	45	1:07.47	BILL ABBOTT	46	2:15.82	JACK GEOGHEGAN	50
1:00.27	JOHN SULTAN	45	1:10.93 JAMES BEGLINGER	46	1:07.56	RICHARD BURNS	49	2:18.64	JAMES CRANE	50
200 M. FREE M E N 45-49			1:14.40 EDWARD G CAZALET	49	1:08.04	FRED LEATHERMAN	45	2:20.12	HUGH WINN	50
2:07.18	TIM GARTON	90	1:14.85 THOMAS FINNEGAN	46	1:08.40	EDWARD RUDLOFF	45	2:22.21	STEVEN THRASHER	50
2:08.06	ANDREW MCPHERSON	45	200 M. BACK M E N 45-49		1:08.62	MICHAEL SLENKER	46	2:23.19	ROBERT WILLIAMS	50
2:09.70	BOB MOMSEN	45	2:26.91 JOHN CALVERT	92	1:08.63	PAULO FIGUEIREDO	46	2:23.22	BRUCE CLARK	50
2:11.28	PETER WISNER	45	2:26.91 JOHN CALVERT	46	200 M. FLY M E N 45-49		2:25.55	BOB BOURASSA	50	
2:13.44	TIM BIRNIE	46	2:28.51 TIM BIRNIE	46	2:29.95	ANDREW MCPHERSON	92	2:26.83	PAT WILSON	50
2:14.01	DAVID GRAY	46	2:31.21 HUGH WILDER	45	2:29.95	ANDREW MC PHERSON	45	2:31.24	ROBERT PROEBSTING	54
2:14.05	PAUL MCCORMICK	45	2:33.49 RICHARD BURNS	49	2:30.80	JOHN LINDLEY	46	400 M. FREE M E N 50-54		
2:15.43	JOHN SULTAN	45	2:36.24 DAN ROGACKI	45	2:41.42	HARRY GREENFIELD	47	4:50.97	EDWARD CAZALET	92
2:16.36	HARRY GREENFIELD	47	2:36.82 JOHN PHILLIPS	45	2:42.48	LELAND FAUST	45	4:50.97	EDWARD CAZALET	50
2:18.66	ALAN HOLLY	45	2:37.43 JAMES BEGLINGER	45	2:43.79	FRED LEATHERMAN	45	4:53.66	HUGH WINN	50
2:18.87	EDWARD G CAZALET	49	2:38.85 ANDREW MC PHERSON	45	2:45.60	EDWARD RUDLOFF	45	4:54.72	JAMES CRANE	50
400 M. FREE M E N 45-49			2:40.66 EDWARD G CAZALET	49	2:48.98	GERRY DELONG	48	5:00.64	JACK GEOGHEGAN	50
4:27.70	BOB MOMSEN	92	2:43.21 JAMES KING	45	2:49.99	JOHN ZIEGENHAGEN	45	5:02.29	T.HARASZTI	51
4:27.70	BOB MOMSEN	45	50 M. BRST M E N 45-49		2:51.16	JAMES GREEN	47	5:04.83	DAVID HARRISON	54
4:40.12	TIMOTHY GARTON	49	32.76 RICK NESBIT	91	2:52.22	JOHN R SULTAN	45	5:06.07	STEVEN THRASHER	50
4:45.49	JOHN CALVERT	46	32.94 ROBERT STRAND	46	200 M. I.M. M E N 45-49		5:12.11	ROBERT WILLIAMS	50	
4:47.37	DAVID J GRAY	46	33.85 DAN ROGACKI	45	2:24.39	BOB MOMSEN	92	5:15.09	HENRY SOUTHWALL	52
4:48.15	TIM BIRNIE	46	33.92 PETER WISNER	45	2:26.60	TIMOTHY GARTON	49	5:15.20	RONALD MOLNAR	50
4:49.70	PAUL MCCORMICK	45	34.12 DAN THOMPSON	46	2:26.66	JOHN CALVERT	46	800 M. FREE M E N 50-54		
4:53.79	RICHARD BOYD	49	34.45 TOM BOAK	48	2:28.62	ANDREW MC PHERSON	45	10:04.60	ED CAZALET	92
4:54.58	BRETT SORGE	45	34.56 PAUL MENYHARTH	45	2:29.67	ROBERT STRAND	46	10:04.69	EDWARD G CAZALET	50
4:57.22	EDWARD CAZALET	49	35.71 GARY PARLAPIANO	45	2:30.70	JOHN SULTAN	45	10:05.50	HUGH WINN	50
4:59.24	E.RUDLOFF	45	36.08 JOE CONDON	45	2:32.44	PETER WISNER	45	10:22.11	JAMES CRANE	50
800 M. FREE M E N 45-49			36.27 RICK STAFFORD	45	2:36.01	DAN ROGACKI	45	10:30.55	BILL WOOD	50
9:31.38	BOB MOMSEN	92	36.39 STEVEN PETERSON	45	2:36.61	JAMES BEGLINGER	46	10:38.74	JACK GEOGHEGAN	50
9:31.38	BOB MOMSEN	45	100 M. BRST M E N 45-49		2:37.14	RICHARD BOYD	49	10:49.52	ALAN SOMERS	50
9:55.51	DAVID J GRAY	46	1:12.98 ROBERT STRAND	92	400 M. I.M. M E N 45-49		11:03.45	BOB BOURASSA	50	
9:56.09	JOHN CALVERT	46	1:12.98 ROBERT STRAND	46	5:12.03	BOB MOMSEN	92	11:08.14	BOB COALE	52
10:00.23	ANDREW MC PHERSON	45	1:13.95 PETER WISNER	45	5:12.03	BOB MOMSEN	45	11:17.48	MIKE CALWELL	51
10:08.08	BRETT SORGE	45	1:16.49 DAN ROGACKI	45	5:15.93	JOHN CALVERT	46	11:18.28	BEN WISCKOL	52
10:22.93	JEFF COOKE	47	1:18.76 TOM BOAK	48	5:16.32	TIMOTHY GARTON	49	1500 M. FREE M E N 50-54		
10:30.53	EDWARD RUDLOFF	45	1:19.06 G. PAUL MENYHARTH	45	5:25.69	JOHN SULTAN	45	19:28.41	BURWELL JONES	85
10:31.50	HOP BAILEY	45	1:19.06 GARY PARLAPIANO	45	5:31.96	RICHARD BOYD	49	19:55.62	HUGH O WINN	50
10:39.69	ANDY BANKS	45	1:19.53 RICK STAFFORD	45	5:36.87	RICHARD HART	46	20:04.92	T.HARASZTI	51
10:46.93	TOM D HENDREY	45	1:19.86 JOHN SULTAN	45				20:08.34	STEVEN THRASHER	50

TOP TEN

Long Course Meters

20:14.24	JIM CRANE	50	3:00.12	MIKE LAUX	50	50 M. FREE M E N 55-59	24:38.78	DAVID FORTSCH	58
20:31.14	ROBERT WILLIAMS	50	3:01.58	RONALD MOLNAR	50	27.42	24:54.70	DOUG HOLMES	56
21:21.06	BOB COALE	52	3:02.61	BILL MULLIKEN	52	27.94	50 M. BACK M E N 55-59		
21:45.29	BRUCE CLARK	50	3:04.95	JOHN STONER	51	28.37	32.94	YOSHI OYAWAKA	92
22:01.42	ERIC HUTCHINSON	50	3:05.14	PATRICK SCHLUP	52	28.47	32.94	YOSHI OYAWAKA	58
22:01.93	ROBERT TESCH	51	3:05.15	JACK MCCOY	51	29.08	33.36	DAVID S. MCINTYRE	57
22:19.11	PATRICK SCHLUP	52	3:07.71	CYRUS HOPKINS	54	29.70	34.64	DONALD BROWN	59
	50 M. BACK M E N 50-54		3:08.87	CHIP HASTINGS	51	29.76	34.72	BILL EARLEY	55
30.93	JOHN SMITH	88	3:09.03	PETER BETZER	50	29.76	34.81	JACK BEATTIE	57
32.13	FRANS NELSON	50	50 M. FLY M E N 50-54		30.30	35.47	MARTY MENNEN	55	
33.07	RICHARD BASSI	51	28.63	MICHAEL MEALIFFE	90	30.81	36.50	JOHN GOODE	58
33.34	JACK GEOGHEGAN	50	29.09	MICHAEL MEALIFFE	51	30.84	37.03	MARSHALL GREER	55
33.68	JON HEIMANN	50	29.34	RICHARD BASSI	51	100 M. FREE M E N 55-59	37.07	JAMES BOHAN	56
34.47	PETER BETZER	50	30.42	ROBERT WILLIAMS	50	1:01.95	38.03	DONALD READ	58
35.12	THOMAS OLANDER	50	30.46	THOMAS OLANDER	50	1:02.65	100 M. BACK M E N 55-59		
35.84	BRUCE CLARK	50	30.67	BERT PETERSEN	53	1:03.03	1:13.15	JACK BEATTIE	90
35.89	DAVID ROBINSON	52	31.05	MIKE LAUX	50	1:04.35	1:13.44	YOSHI OYAWAKA	58
35.97	DENNIS DONOVAN	50	31.10	ROBERT PROEBSTING	54	1:04.92	1:14.67	DAVID S. MCINTYRE	57
36.51	TOM FANNING	52	31.24	DAVID GILLANDERS	53	1:05.50	1:16.57	DONALD L BROWN	59
	100 M. BACK M E N 50-54		31.34	JACK GEOGHEGAN	50	1:06.09	1:18.21	JACK BEATTIE	57
1:10.14	JOHN SMITH	88	32.07	R. KRAMER-HOWE	50	1:09.00	1:19.18	MARTY MENNEN	55
1:12.80	RICHARD BASSI	51	100 M. FLY M E N 50-54		1:09.16	1:20.01	BILL EARLEY	55	
1:13.10	JACK GEOGHEGAN	50	1:07.04	MICHAEL MEALIFFE	90	1:09.34	1:23.87	JOHN W. GOODE	58
1:13.49	BRUCE CLARK	50	1:07.60	JACK GEOGHEGAN	50	1:09.43	1:25.45	DREN GEER	58
1:13.86	STEVEN THRASHER	50	1:10.19	MICHAEL MEALIFFE	51	200 M. FREE M E N 55-59	1:25.93	BOB CRANE	55
1:14.97	PETER BETZER	50	1:10.19	MIKE LAUX	50	2:21.53	1:26.98	JACK G HALLIDAY	55
1:15.42	JON HEIMANN	50	1:12.10	DAVID GILLANDERS	53	2:24.56	200 M. BACK M E N 55-59		
1:17.85	HUGH RODDIN	50	1:12.37	BERT PETERSEN	53	2:27.31	2:42.37	DON BROWN	88
1:19.37	FRED WENDELKEN	53	1:12.92	ROBERT WILLIAMS	50	2:28.53	2:47.15	RICHARD HANLEY	56
1:19.56	ROBERT NORRIS	54	1:14.01	ROBERT PROEBSTING	54	2:29.52	2:47.29	DONALD BROWN	59
1:19.81	DAVID ROBINSON	52	1:14.74	RONALD MOLNAR	50	2:31.28	2:49.37	JACK BEATTIE	57
	200 M. BACK M E N 50-54		1:14.76	HUGH RODDIN	50	2:34.56	2:50.32	MARTY MENNEN	55
2:35.44	BURWELL JONES	85	1:15.14	ROBERT TESCH	51	2:35.29	2:57.38	JACK HALLIDAY	55
2:35.70	EDWARD CAZALET	50	200 M. FLY M E N 50-54		2:35.48	3:01.29	BILL EARLEY	55	
2:41.82	STEVEN THRASHER	50	2:33.79	BILL YORZYK	83	2:37.76	3:04.09	BOB CRANE	55
2:43.09	RICHARD BASSI	51	2:39.48	JACK GEOGHEGAN	50	2:39.77	3:06.90	BARRY FASBENDER	55
2:45.53	PETER BETZER	50	2:42.42	MIKE LAUX	50	400 M. FREE M E N 55-59	3:07.58	DREN GEER	58
2:49.48	JON HEIMANN	50	2:48.43	R.LLOYD-MOSTYN	50	4:58.41	3:10.57	C.LE BOURGEOIS	58
2:50.71	ROBERT NORRIS	54	2:57.94	DAVID GILLANDERS	53	5:21.36	50 M. BRST M E N 55-59		
2:51.77	HUGH RODDIN	50	3:01.39	ROBERT PROEBSTING	54	5:23.98	34.20	JOHN KORTHEUER	88
2:52.82	BEN WISCKOL	52	3:02.55	JOHN STONER	51	5:24.24	35.88	DAVID DABOLL	55
2:54.86	DAVID ROBINSON	52	3:04.02	HUGH RODDIN	50	5:24.82	36.20	MANUEL SANGUILY	59
2:58.17	JACK GEOGHEGAN	50	3:05.30	TIM TIMKEN	53	5:24.97	37.84	STAN MORNER	57
	50 M. BRST M E N 50-54		3:07.40	BEN WISCKOL	52	5:33.33	38.35	BOB PATTEN SR.	57
33.85	MANUEL SANGUILY	83	3:09.80	ROBERT TESCH	51	5:36.68	38.36	MILTON GEE	55
36.02	JACK MCCOY	51	200 M. I.M. M E N 50-54		5:42.22	38.39	WANG LAU	55	
36.81	PETER R. BETZER	50	2:34.67	DRURY GALLAGHER	89	5:42.22	39.35	RAY S. BURNS	56
36.82	MIKE LAUX	50	2:36.43	BRUCE CLARK	50	5:43.73	40.03	RONALD MUGAVIN	55
37.21	CHIP HASTINGS	51	2:40.17	EDWARD G CAZALET	50	800 M. FREE M E N 55-59	40.12	ROBERT KIM	58
37.27	JOHN STONER	51	2:40.45	T.HARASZTI	51	10:27.08	41.40	MICHEAL LOEBL	55
37.49	JEROME YUROW	51	2:40.54	MIKE LAUX	50	10:50.39	100 M. BRST M E N 55-59		
37.76	TOM WINTERS	52	2:43.02	BILL WOOD	50	10:55.75	1:17.87	JOHN KORTHEUER	88
37.83	PETER JACKSON	52	2:44.23	JACK GEOGHEGAN	50	11:13.70	1:20.69	MANUEL SANGUILY	59
38.00	THOM BURGESS	50	2:45.19	RONALD MOLNAR	50	11:15.24	1:22.71	DAVID DABOLL	56
38.01	BEN FRANKLIN	50	2:47.34	TOM WINTERS	52	11:42.57	1:22.80	BOB PATTEN SR.	57
	100 M. BRST M E N 50-54		2:50.16	JIM CRANE	50	11:45.54	1:26.43	JACK HALLIDAY	55
1:15.60	MANUEL SANGUILY	83	2:51.51	HUGH RODDIN	50	11:51.28	1:26.47	MILTON GEE	55
1:20.23	JACK MCCOY	51	400 M. I.M. M E N 50-54		11:53.13	1:27.80	1:27.80	WANG LAU	55
1:21.69	BILL MULLIKEN	52	5:29.95	EDWARD CAZALET	92	12:15.64	1:28.58	STAN MORNER	57
1:22.45	JOHN STONER	51	5:29.95	EDWARD G CAZALET	50	12:19.30	1:30.45	DONALD L BROWN	59
1:24.25	CHIP HASTINGS	51	5:46.47	MIKE LAUX	50	1500 M. FREE M E N 55-59	1:30.96	RAY S. BURNS	57
1:25.08	PETER BETZER	50	5:50.20	RONALD MOLNAR	50	19:54.72	1:31.42	DICK A PETERSON	55
1:26.08	MIKE LAUX	50	5:53.86	JACK GEOGHEGAN	50	21:03.61	200 M. BRST M E N 55-59		
1:26.20	JOHN FELDER	51	6:01.28	HUGH WINN	50	21:28.79	2:58.83	MANUEL SANGUILY	88
1:26.29	THOM BURGESS	50	6:01.64	BOB BOURASSA	50	21:59.97	3:04.45	BOB PATTEN SR.	57
1:26.41	PATRICK SCHLUP	52	6:05.38	DICK STEWART	52	22:35.49	3:09.54	DAVID DABOLL	55
1:26.65	AMOS A HARDY	50	6:08.32	ROBERT WILLIAMS	50	23:44.67	3:10.59	JACK HALLIDAY	55
	200 M. BRST M E N 50-54		6:09.45	BRUCE CLARK	50	23:53.53	3:12.91	WANG LAU	55
2:53.76	MANUEL SANGUILY	83	6:10.03	JAMES CRANE	50	24:15.08	3:16.15	DICK A PETERSON	55
2:58.38	T.HARASZTI	51	*****			24:27.50	3:17.65	MILTON GEE	55

TOP TEN Long Course Meters

3:22.31 NICHOLAS BERENYI 59	30.15 RON JOHNSON 60	36.33 AULIS KAHKONEN 61	50 M. FLY M E N 60-64
3:27.06 DOUG HOLMES 56	30.48 PHILIP CHAPMAN 61	37.09 RON JOHNSON 60	32.19 FRANK PIEMME 85
3:29.65 STAN MORNER 57	30.52 HAROLD BEGEL 62	37.36 HAROLD BEGEL 62	32.73 HERB KERN 60
3:30.52 RONALD MUGAVIN 55	30.66 HERB KERN 60	38.30 HORACE KNOWLTON 63	33.01 CHARLES BALDWIN 62
50 M. FLY M E N 55-59	30.80 FRANK REYNOLDS 60	38.99 STAN MCCONNELL 60	33.40 RON JOHNSON 60
30.17 ROBERT PROEBSTING92	30.82 JOHN KORTHEUER 61	39.22 FORREST SULLIVAN 62	33.54 HAROLD BEGEL 62
30.17 ROBERT PROEBSTING 55	31.73 DICK BOWER 62	39.58 ART MAYER 60	33.56 JOHN KORTHEUER 61
30.80 BOB BAILIE 56	100 M. FREE M E N 60-64	39.70 HERB KERN 60	34.69 FRANK REYNOLDS 60
31.45 DAVID S. MCINTYRE 57	1:02.80 DONALD HILL 92	39.85 GORDON GILLIN 61	35.11 LEN GOLDSTONE 63
32.45 ERNIE LESKOVITZ 55	1:02.80 DONALD HILL 60	40.40 GERALD MARKOFF 60	36.79 WILLIAM IRWIN 64
33.28 DAVE DRUM 57	1:07.42 CHARLES BALDWIN 62	100 M. BACK M E N 60-64	37.12 DONALD MESSER 61
33.33 BILL STEUART 55	1:08.65 HERB KERN 60	1:18.06 PAUL HUTINGER 86	37.23 TAK ISERI 60
33.66 RICHARD HANLEY 56	1:08.74 FRANK REYNOLDS 60	1:23.99 HAROLD BEGEL 62	100 M. FLY M E N 60-64
33.68 WAYNE PICKERING 55	1:10.13 GRAHAM JOHNSTON 61	1:25.54 HORACE KNOWLTON 63	1:17.39 WIN WILSON 88
33.77 WILLIAM ROBERTSON 56	1:10.47 DONALD BAKER 61	1:27.89 STAN MCCONNELL 60	1:21.34 JOHN KERN 60
34.15 JAMES BOHAN 56	1:10.47 BOB HERITIER 64	1:28.50 KENNETH KIMBALL 61	1:21.49 HAROLD BEGEL 62
100 M. FLY M E N 55-59	1:11.16 DAVE ANDERSON 60	1:29.67 FORREST SULLIVAN 62	1:25.01 JOHN MASTERS 61
1:10.28 ROBERT PROEBSTING92	1:11.47 DICK BOWER 62	1:30.83 WILLIAM CLINTON 60	1:26.72 LEN GOLDSTONE 62
1:10.28 ROBERT PROEBSTING 55	1:12.30 PHILIP CHAPMAN 61	1:30.91 HERB KERN 60	1:31.55 WILLIAM IRWIN 64
1:13.98 ERNIE LESKOVITZ 55	200 M. FREE M E N 60-64	1:31.74 GERALD MARKOFF 61	1:33.14 TED HAARTZ 64
1:16.62 DAVID S. MCINTYRE 57	2:23.11 DONALD HILL 92	1:32.14 PIERRE HATHEWAY 61	1:35.82 EDWARD ROSENHAUER 61
1:19.13 BOB PATTEN SR. 57	2:23.11 DONALD HILL 60	1:33.26 HAROLD DeSMIDT 63	1:39.05 DONALD MESSER 61
1:19.74 WILLIAM LAUER 57	2:27.71 GRAHAM JOHNSTON 61	200 M. BACK M E N 60-64	1:39.33 WILLIAM CLINTON 60
1:21.59 BILL STEUART 55	2:36.06 HERB KERN 60	2:52.67 ROGER FRANKS 87	1:40.25 DOUGLAS SCOTT 64
1:23.36 TELFAIR MAHAFFY 56	2:36.95 WAYNE LEENGRAN 61	3:08.59 HORACE KNOWLTON 63	200 M. FLY M E N 60-64
1:23.76 BOB BAILIE 56	2:39.52 BOB HERITIER 64	3:11.79 HERB KERN 60	3:00.99 JOHN MASTERS 90
1:24.38 STAN MORNER 57	2:39.56 ERIC YOUNGQUIST 64	3:12.78 KENNETH KIMBALL 61	3:11.40 HERB KERN 60
1:25.52 BOB BEST 59	2:39.87 ROBERT KLAGES 61	3:15.54 STAN MCCONNELL 60	3:12.79 JOHN MASTERS 61
200 M. FLY M E N 55-59	2:40.81 DAVE ANDERSON 60	3:18.07 ALFRED BEHRENDSEN 62	3:19.41 LEN GOLDSTONE 63
2:48.98 ROBERT PROEBSTING92	2:45.12 FRED TRASK 64	3:20.95 FORREST SULLIVAN 62	3:26.21 JOHN LENARD 61
2:48.98 ROBERT PROEBSTING 55	2:47.45 FRANK REYNOLDS 60	3:24.27 FRED BARTLETT 62	3:36.36 PETER PIROW 61
3:06.89 BILL STEUART 55	400 M. FREE M E N 60-64	3:28.16 WILLIAM CLINTON 60	3:39.12 BUD C BITZER 60
3:08.71 WILLIAM LAUER 57	5:02.70 GRAHAM JOHNSTON 91	3:28.22 HAROLD DeSMIDT 63	3:48.79 DOUGLAS SCOTT 64
3:13.69 C.LEBOURGEOIS 58	5:09.21 GRAHAM JOHNSTON 61	3:28.63 JOHN KORTHEUER 61	3:48.94 C.H. KOHNKEN 60
3:15.94 RICHARD HANLEY 56	5:18.92 WALLIE JEFFRIES 61	50 M. BRST M E N 60-64	3:58.33 DUDLEY TARLTON 62
3:16.69 BARRY FASBENDER 55	5:42.63 WAYNE LEENGRAN 61	35.91 JOHN KORTHEUER 91	3:59.26 THOMAS MICHELSON 60
3:31.16 HERB ALVARADO 57	5:45.60 HERB KERN 60	36.32 JOHN KORTHEUER 61	200 M. I.M. M E N 60-64
3:31.85 WANG LAU 55	5:46.77 DAVE ANDERSON 60	37.13 AULIS KAHKONEN 61	2:51.41 GRAHAM JOHNSTON 91
3:33.41 ROBERT FOX 55	5:47.53 ROBERT KLAGES 61	37.54 CHARLES BALDWIN 62	2:52.48 GRAHAM JOHNSTON 61
3:44.26 NICK BERENYI 59	5:48.50 FRANK REYNOLDS 60	39.48 SEYMOUR BOORSTEIN 60	2:56.65 HERB KERN 60
200 M. I.M. M E N 55-59	5:53.47 ERIC YOUNGQUIST 64	39.77 MORRIS MATHEWS 64	3:05.99 JOHN MASTERS 61
2:43.57 BURWELL JONES 90	5:53.59 BOB HERITIER 63	40.16 RON JOHNSON 60	3:06.10 LEN GOLDSTONE 63
2:47.86 DONALD BROWN 59	6:01.59 FRED TRASK 64	40.21 TAK ISERI 60	3:07.48 JOHN KORTHEUER 61
2:49.79 DAVID COSTILL 56	6:01.59 ROBERT E. BEACH 61	40.23 DANIEL GRUENDER 62	3:10.74 HORACE KNOWLTON 63
2:52.62 JACK HALLIDAY 55	800 M. FREE M E N 60-64	40.37 PHILIP CHAPMAN 61	3:12.67 GORDON GILLIN 61
2:54.45 WILLIAM LAUER 57	10:36.09 GRAHAM JOHNSTON 91	41.02 TED HAARTZ 64	3:13.97 FRANK REYNOLDS 60
2:55.70 BILL STEUART 55	10:42.19 GRAHAM JOHNSTON 61	100 M. BRST M E N 60-64	3:18.57 STAN MCCONNELL 60
2:58.33 JACK R. BEATTIE 57	11:03.20 DONALD HILL 60	1:21.58 JOHN KORTHEUER 91	3:20.50 PETER PIROW 61
2:59.59 CARL WOOLLEY 55	11:45.78 ERIC YOUNGQUIST 64	1:22.91 JOHN KORTHEUER 61	400 M. I.M. M E N 60-64
3:00.71 DAVID DABOLL 56	11:48.71 WAYNE LEENGRAN 61	1:23.90 AULIS KAHKONEN 61	6:04.99 GRAHAM JOHNSTON 91
3:07.39 BILL EARLEY 55	11:58.22 BOB HERITIER 64	1:29.38 TAK ISERI 60	6:11.87 GRAHAM JOHNSTON 61
3:10.81 BOB CRANE 55	12:10.38 ROBERT KLAGES 61	1:29.92 SEYMOUR BOORSTEIN 60	6:28.26 HERB KERN 60
400 M. I.M. M E N 55-59	12:32.31 PETER PIROW 61	1:30.23 CHARLES BALDWIN 62	6:40.88 JOHN MASTERS 61
5:53.53 BURWELL JONES 90	12:33.01 KENNETH KIMBALL 61	1:31.92 JOHN MASTERS 61	6:46.02 LEN GOLDSTONE 63
6:16.59 DONALD BROWN 59	12:44.91 HERB KERN 60	1:32.86 DANIEL GRUENDER 62	6:51.05 JOHN LENARD 61
6:19.68 CARL WOOLLEY 55	12:45.44 FRANK REYNOLDS 60	1:33.28 TED HAARTZ 64	6:59.17 JOHN KORTHEUER 61
6:21.13 ERNIE LESKOVITZ 55	1500 M. FREE M E N 60-64	1:33.53 MORRIS MATHEWS 64	7:01.62 GORDON GILLIN 61
6:30.44 JACK BEATTIE 57	20:06.80 GRAHAM JOHNSTON 91	1:34.96 THOMAS TAYLOR 61	7:05.94 PETER PIROW 61
6:31.62 DAVID DABOLL 56	20:13.88 GRAHAM JOHNSTON 61	200 M. BRST M E N 60-64	7:07.27 HORACE KNOWLTON 63
6:34.94 GEORGE BRUNSTAD 57	23:18.69 WILLIAM PHILLIPS 64	3:08.59 JOHN KORTHEUER 91	7:11.15 FRED BARTLETT 62
6:35.16 WILLIAM LAUER 57	23:40.38 THOMAS TAYLOR 61	3:09.84 JOHN KORTHEUER 61	*****
6:36.44 BARRY FASBENDER 55	23:45.42 FRANK REYNOLDS 60	3:16.99 TAK ISERI 60	50 M. FREE M E N 65-69
6:42.47 C.LE BOURGEOIS 58	24:01.50 HERB KERN 60	3:27.89 SEYMOUR BOORSTEIN 60	29.17 PETER POWLISON 87
6:59.74 NICHOLAS BERENYI 59	24:25.63 ROBERT E. BEACH 62	3:28.42 THOMAS TAYLOR 61	30.02 FRANK PIEMME 67
*****	24:33.24 FRED W TRASK 64	3:29.55 MORRIS MATHEWS 64	30.94 KEITH CARTER 67
50 M. FREE M E N 60-64	24:41.09 FRED LEHMAN 61	3:29.76 TED HAARTZ 64	31.57 JOHN FLORANCE 69
27.86 DONALD HILL 92	24:51.88 C.H. KOHNKEN 60	3:32.63 BUD BITZER 60	31.65 ROBERT BLAKE 67
27.86 DONALD HILL 60	25:14.16 ROBERT KUENY 61	3:33.59 DANIEL GRUENDER 62	31.79 MILTON A SENS 66
29.12 CHUCK BALDWIN 62	50 M. BACK M E N 60-64	3:35.35 PETER PIROW 61	31.79 PERRY JR ROCKWELL 67
29.86 DICK WEBBER 63	35.02 PAUL HUTINGER 86	3:35.66 DOUGLAS SCOTT 64	32.05 A.ARCIDIACONO 68

TOP TEN

Long Course Meters

32.21 RICHARD LEIGH	67	39.72 BOB WHITE	65	35.16 KEITH CARTER	67	1:13.12 JOHN RICHARDS	70
32.88 JURGEN SCHMIDT	69	40.80 FRANK PIEMME	67	36.30 PERRY JR ROCKWELL	67	1:15.05 ANDREW HOLDEN	73
32.90 PAUL HUTINGER	67	41.41 ROBERT BLOEBAUM	66	36.71 JURGEN SCHMIDT	69	1:15.31 ROBERT SCOLES	71
100 M. FREE M E N 65-69		41.55 RALPH PERRY	65	37.91 DONALD HUBBARD	65	1:16.68 RAYMOND F TAFT	73
1:08.15 JAMES WELCH	83	42.98 JOSEPH STAUNTON	65	38.29 LUMAN SUTTON	65	1:17.37 JAY CRADDOCK	71
1:10.45 FRANK PIEMME	67	100 M. BACK M E N 65-69		39.55 HERB MCAULEY	69	1:17.64 JACK MCCANN	70
1:11.78 ROBERT BLAKE	67	1:20.74 ROGER FRANKS	92	39.91 PAUL HUTINGER	67	1:17.86 JOHN PATTEN	71
1:12.99 MILTON A SENS	66	1:20.74 ROGER FRANKS	65	100 M. FLY M E N 65-69		1:19.00 HUGH RICHARDS	71
1:13.75 BOB WHITE	65	1:24.61 PAUL HUTINGER	67	1:20.59 JOSEPH KURTZMAN	92	1:19.53 ROGERS HOLMES	70
1:14.45 JOHN FLORANCE	69	1:26.50 FLOYD ELIOTT	65	1:20.59 JOSEPH KURTZMAN	66	1:19.92 BILL ODMAN	73
1:14.51 KEITH CARTER	67	1:27.12 ELI M GOLDFARB	67	1:20.63 WIN WILSON	65	200 M. FREE M E N 70-74	
1:14.71 PERRY JR ROCKWELL	67	1:28.50 GEORGE GANDSEY	68	1:24.37 KEITH CARTER	67	2:44.86 KELLEY LEMMON	83
1:15.85 JOHN M. WOODS	68	1:33.84 JOHN M. WOODS	68	1:33.92 ROGER FRANKS	65	2:50.47 JOHN RICHARDS	70
1:16.98 JURGEN SCHMIDT	69	1:35.93 RALPH PERRY	65	1:35.36 PERRY JR ROCKWELL	67	2:52.92 ROBERT SCOLES	71
1:17.25 RICHARD LEIGH	67	1:37.47 ROBERT BLOEBAUM	66	1:36.45 LEE ARTH	67	3:00.30 JOHN PATTEN	71
200 M. FREE M E N 65-69		1:38.08 GEORGE MELICK	67	1:37.33 MORRIS MATHEWS	65	3:00.86 GERALD HUESTIS	72
2:32.90 PETER POWLISON	87	1:38.17 LEE ARTH	67	1:40.52 DON HUBBARD	65	3:02.93 BILL ODMAN	73
2:39.50 WIN WILSON	65	200 M. BACK M E N 65-69		1:43.72 LUMAN SUTTON	65	3:02.94 RAYMOND F TAFT	73
2:40.23 FRANK PIEMME	67	2:55.46 ROGER FRANKS	92	1:44.11 PAUL HUTINGER	67	3:04.18 FRED TAIOLI	71
2:44.96 ED KERSWILL	66	2:55.46 ROGER FRANKS	65	200 M. FLY M E N 65-69		3:06.96 ALDO V DA ROSA	74
2:45.46 ROGER FRANKS	65	3:09.69 PAUL HUTINGER	67	3:08.79 JOSEPH KURTZMAN	91	3:09.45 EDWARD MORAN	74
2:49.79 ROBERT BLAKE	67	3:12.39 FLOYD ELIOTT	65	3:15.50 JOSEPH KURTZMAN	66	3:12.81 RICHARD SMITH	72
2:53.99 LEE ARTH	67	3:15.34 BOB WHITE	65	3:30.17 LELAND ARTH	67	400 M. FREE M E N 70-74	
3:00.13 JURGEN SCHMIDT	69	3:20.17 GEORGE GANDSEY	68	3:33.13 KEITH CARTER	67	6:04.62 RAY TAFT	89
3:01.50 JOHN M. WOODS	68	3:24.75 ELI M GOLDFARB	67	3:33.90 BRUNO WEBER	65	6:23.63 FRED TAIOLI	71
3:01.80 WAYNE SHADBOLT	68	3:27.51 RALPH PERRY	65	3:47.15 ROGER FRANKS	65	6:24.82 JOHN RICHARDS	70
3:08.25 PERRY JR ROCKWELL	67	3:28.87 LEE ARTH	67	3:50.31 PERRY JR ROCKWELL	67	6:26.78 ROBERT SCOLES	70
400 M. FREE M E N 65-69		3:32.75 LOU SILVERSTEIN	66	3:54.51 ART KELLEY	66	6:36.08 ALDO V DA ROSA	74
5:38.79 JAMES WELCH	83	3:33.61 CALVIN BARNES	68	4:14.52 FRED ECKHARDT	66	6:39.17 JOHN PATTEN	71
5:48.38 ROGER FRANKS	65	50 M. BRST M E N 65-69		4:22.28 LOU SILVERSTEIN	65	6:40.24 JERRY JARROLD	70
5:48.91 FRANK PIEMME	67	38.28 JOSEPH KURTZMAN	91	4:56.51 WARREN FOSTER	67	6:48.89 EDWARD R MORAN	74
6:10.50 ED KERSWILL	66	39.76 JOSEPH KURTZMAN	66	200 M. I.M. M E N 65-69		6:49.08 GERALD HUESTIS	72
6:11.32 BOB WHITE	65	40.74 MORRIS MATHEWS	65	3:02.81 PETER POWLISON	87	6:56.29 RICHARD SMITH	72
6:14.94 ROBERT BLAKE	67	42.09 GEORGE MCVEY	65	3:07.24 ROGER FRANKS	65	6:57.35 DAVID F. MULLIKEN	73
6:19.34 LEE ARTH	67	43.05 LEE MIESEN	65	3:09.28 FRANK PIEMME	67	800 M. FREE M E N 70-74	
6:23.92 JURGEN SCHMIDT	69	43.89 LEE ARTH	67	3:15.73 LELAND ARTH	67	12:36.65 FRED TAIOLI	91
6:24.56 MORRIS MATHEWS	65	44.02 WILLIAM AUSTIN	65	3:22.06 LUMAN SUTTON	65	13:17.18 FRED TAIOLI	71
6:26.08 BRUNO WEBER	65	44.10 PAUL HUTINGER	67	3:22.90 ED KERSWILL	66	13:31.89 ROBERT SCOLES	70
6:30.87 WAYNE SHADBOLT	67	44.43 ABRASHA BRAININ	69	3:24.89 PAUL HUTINGER	67	13:50.72 ALDO DA ROSA	74
800 M. FREE M E N 65-69		44.86 MATT FLANAGAN	66	3:35.29 JURGEN SCHMIDT	69	13:51.41 EDWARD R MORAN	74
11:55.35 ROGER FRANKS	92	45.23 NORMAN GARSOE	68	3:35.43 JOHN WOODS	68	14:13.64 DAVID F. MULLIKEN	73
11:52.33 WIN WILSON	65NV	100 M. BRST M E N 65-69		3:38.41 BRUNO WEBER	65	14:24.42 RICHARD T SMITH	72
11:55.35 ROGER FRANKS	66	1:28.91 JOSEPH KURTZMAN	91	3:44.57 LOU SILVERSTEIN	65	14:27.77 GILBERT YOUNG	70
12:09.52 FRANK PIEMME	67	1:33.23 JOSEPH KURTZMAN	66	400 M. I.M. M E N 65-69		15:09.21 BARNETT PHILLIPS	74
12:10.91 ED KERSWILL	66	1:33.71 BARTON GREENBERG	68	6:37.79 ROGER FRANKS	92	15:39.59 JAMES FEENAN	72
13:02.54 LEE ARTH	67	1:34.39 MORRIS MATHEWS	65	6:37.79 ROGER FRANKS	65	15:41.58 BUD JACKSON	73
13:30.46 ROBERT BLAKE	67	1:35.77 LEE ARTH	67	7:01.65 LELAND ARTH	67	1500 M. FREE M E N 70-74	
13:41.34 JOHN WOODS	68	1:37.28 GEORGE MCVEY	65	7:03.80 FRANK PIEMME	67	24:28.27 FRED TAIOLI	91
13:50.54 WAYNE SHADBOLT	68	1:38.29 LEE MIESEN	65	7:21.53 KEITH CARTER	67	25:24.29 FRED TAIOLI	71
14:19.47 LOU SILVERSTEIN	65	1:39.76 WILLIAM AUSTIN	65	7:22.92 MORRIS MATHEWS	65	26:01.08 ALDO V DA ROSA	74
14:21.24 BRUNO WEBER	65	1:41.06 FRANK PIEMME	67	7:26.80 BRUNO WEBER	65	26:04.73 ROBERT SCOLES	71
1500 M. FREE M E N 65-69		1:42.19 NORMAN GARSOE	68	7:31.05 ED KERSWILL	66	26:19.10 HENRY W HEINICHEN	70
22:29.32 WIN WILSON	92	1:44.23 JAMES FORBES	66	7:59.87 LOU SILVERSTEIN	65	26:29.94 EDWARD MORAN	74
22:28.99 WIN WILSON	65NV	200 M. BRST M E N 65-69		8:04.68 ART KELLEY	66	27:22.48 RICHARD SMITH	72
23:28.43 ED KERSWILL	66	3:24.00 BARTON GREENBERG	91	8:17.07 ROBERT RISLEY	65	27:49.47 BOB MERRICK	72
23:40.20 FRANK PIEMME	67	3:25.24 BARTON GREENBERG	68	*****		28:02.74 GILBERT YOUNG	70
25:19.00 ROBERT BLAKE	67	3:30.54 MORRIS MATHEWS	65	50 M. FREE M E N 70-74		29:10.92 HERBERT HOEPTNER	70
25:24.05 BRUNO WEBER	65	3:30.59 LEE ARTH	67	29.35 KELLEY LEMMON	84	29:52.81 BOB ACKER	71
25:32.35 JURGEN SCHMIDT	69	3:40.72 LEE MIESEN	65	32.45 JOHN RICHARDS	70	50 M. BACK M E N 70-74	
27:12.44 RICHARD DANIEL	66	3:41.45 NORMAN GARSOE	68	32.74 HUGH RICHARDS	71	37.49 RAY TAFT	89
27:15.97 LOU SILVERSTEIN	66	3:42.31 GEORGE MCVEY	65	32.76 ANDREW HOLDEN	73	39.06 RAY TAFT	73
28:40.40 JOAGUIN SILVERIO	65	3:42.39 WILLIAM AUSTIN	65	32.78 ROBERT SCOLES	71	39.38 JACK MCCANN	70
29:18.61 TOM A MC CALL	69	3:43.50 JOE KURTZMAN	65	32.83 JAY CRADDOCK	71	39.90 JOHN DILLEY	71
50 M. BACK M E N 65-69		3:47.33 ROGER FRANKS	65	33.10 ROGERS HOLMES	70	40.79 ROGERS HOLMES	70
35.47 GEORGE GANDSEY	89	3:54.39 ED KERSWILL	66	33.38 BOB ACKER	71	41.95 GERALD HUESTIS	72
36.54 PAUL HUTINGER	67	50 M. FLY M E N 65-69		33.92 RAYMOND F TAFT	73	42.02 BILL MOLVIE	73
37.17 ROGER FRANKS	65	33.39 FRANK PIEMME	90	34.18 HENRY W HEINICHEN	70	42.23 ANDREW HOLDEN	73
38.38 FLOYD ELIOTT	65	33.68 JOSEPH KURTZMAN	66	34.50 DORE SCHWAB JR.	70	43.98 ALDO V DA ROSA	74
38.52 ELI M GOLDFARB	67	33.90 FRANK PIEMME	67	100 M. FREE M E N 70-74		44.63 ROBERT SCOLES	71
38.73 GEORGE GANDSEY	68	34.43 WIN WILSON	65	1:11.61 KELLEY LEMMON	83	44.92 ROBERT PATTON	70

TOP TEN

Long Course Meters

100 M. BACK M E N 70-74	43.75 PAUL C. CRAGO 71	1:31.89 JOHN D. JOHNSTON 76	2:00.41 CARL W. THORNBURG 79
1:25.35 RAY TAFT 89	44.10 BOB MERRICK 72	1:33.50 HARRY BARTLETT 76	2:01.41 WOODY BOWERSOCK 79
1:29.42 RAY TAFT 73	100 M. FLY M E N 70-74	1:34.10 BERNARD BERGMAN 75	200 M. BACK M E N 75-79
1:30.45 JOHN DILLEY 71	1:32.85 ANDREW HOLDEN 90	1:34.10 EDWIN WOLPAW 77	3:25.93 EDWARD SHEA 91
1:33.20 JACK MCCANN 70	1:35.09 ANDREW HOLDEN 73	200 M. FREE M E N 75-79	3:36.30 NORRIS FLUKE 75
1:38.71 EDWARD MORAN 74	1:37.88 PAUL KRUP 74	2:53.73 KELLEY LEMMON 87	3:38.94 JOHN MERRILL 75
1:39.58 ALDO V DA ROSA 74	1:46.73 BOB MERRICK 72	3:14.07 PETE OKUMOTO 76	3:51.35 ED SHEA 77
1:40.38 BILL MOLVIE 73	1:48.44 RAYMOND F TAFT 73	3:16.02 NORRIS FLUKE 75	3:53.57 CLIFF CROOME 75
1:40.69 EARL WALTER 71	1:49.74 ALDO V DA ROSA 74	3:19.39 ROBERT KNAPP 75	3:59.71 DAVE MALBROUGH 79
1:41.25 BOB MERRICK 72	1:50.92 EARL WALTER 71	3:22.30 EDWARD NAKAMURA 76	4:00.25 ROGER CHAMBERLAIN 75
1:41.26 ANDREW HOLDEN 73	1:56.48 PAUL C. CRAGO 71	3:25.83 HAROLD SEXTON 77	4:17.77 MIKE OFFNER 77
1:44.08 JOHN WRENN 71	1:59.14 BALINT PAPP 70	3:28.05 ROY MORSE 75	4:17.96 WALTER SOMPAYRAC 78
200 M. BACK M E N 70-74	2:01.09 RICHARD SMITH 72	3:30.36 HARRY BARTLETT 76	4:20.85 HANS KOLB 77
3:13.25 RAY TAFT 89	2:06.10 WILLIAM JOHNSTON 74	3:33.44 GARY WEISENTHAL 77	4:22.01 CHARLES BREEDING 76
3:16.44 RAY TAFT 73	200 M. FLY M E N 70-74	3:33.61 JOHN D. JOHNSTON 76	50 M. BRST M E N 75-79
3:21.84 ROGERS HOLMES 70	3:39.04 ANDREW HOLDEN 90	3:38.84 WOODY BOWERSOCK 79	43.61 BENNETT ALLEN 89
3:23.12 JACK MCCANN 70	3:49.33 ANDREW HOLDEN 73	400 M. FREE M E N 75-79	46.31 BENNETT ALLEN 78
3:31.51 GERALD HUESTIS 72	3:55.80 PAUL KRUP 74	6:27.76 ARTHUR RULE 81	48.04 ROGER CHAMBERLAIN 75
3:39.06 ALDO V DA ROSA 74	4:13.32 ALDO V DA ROSA 74	6:46.07 NORRIS FLUKE 75	48.45 RUSS WITTE 75
3:39.69 EDWARD MORAN 74	4:31.80 PAUL C. CRAGO 71	6:57.87 PETE OKUMOTO 75	49.96 JERRY EVERALL 77
3:42.70 EARL WALTER 71	5:02.35 WILLIAM JOHNSTON 74	7:25.00 HARRY BARTLETT 76	50.07 THOMAS WEIR 76
3:46.31 JOHN WRENN 71	5:07.89 BOB ACKER 71	7:29.53 ROY MORSE 75	50.63 MIKE OFFNER 77
3:57.19 BOB MERRICK 72	5:30.08 HERB MCCAULEY 70	7:31.95 JOHN MERRILL 75	50.91 JOHN BROUK 75
3:57.24 GILBERT YOUNG 70	7:14.67 T.R. JOHNSON 70	7:37.31 JOHN D. JOHNSTON 76	52.01 EDWIN WOLPAW 77
50 M. BRST M E N 70-74	200 M. I.M. M E N 70-74	7:38.18 EDWARD NAKAMURA 76	52.07 JOPAUL STEINER 76
41.44 BENNETT ALLEN 84	3:11.42 RAY TAFT 89	7:45.23 HAROLD SEXTON 77	53.12 WILLIAM GRANT JR. 78
41.96 PAUL KRUP 74	3:26.74 RAYMOND F TAFT 73	7:57.88 GARY WEISENTHAL 78	100 M. BRST M E N 75-79
42.08 JOHN RICHARDS 70	3:33.30 BOB MERRICK 72	8:08.92 GENE CROSSETT 78	1:39.69 KELLEY LEMMON 87
43.86 BOB MORRISON 71	3:38.36 ALDO V DA ROSA 74	800 M. FREE M E N 75-79	1:43.13 ANTON M. CERER 75
45.28 ALDO V DA ROSA 74	3:38.57 HUGH RICHARDS 71	13:35.96 HERBERT HOWE 87	1:44.42 DON MCCULLOUGH 76
45.42 BOB MERRICK 72	3:43.61 EARL WALTER 71	14:07.07 NORRIS FLUKE 75	1:47.46 BENNETT ALLEN 78
45.52 HUGH RICHARDS 71	3:46.64 FRANK HAVLICEK 73	14:54.84 PETE OKUMOTO 76	1:48.05 RUSS WITTE 75
47.02 FRANK HAVLICEK 73	3:49.00 JOHN WRENN 71	15:37.64 GEORGE RAFTER 75	1:53.43 JERRY EVERALL 77
48.69 WILLIAM BROCK 70	3:50.86 RICHARD SMITH 72	15:50.78 EDWARD NAKAMURA 76	1:54.76 ROGER CHAMBERLAIN 75
51.00 ROBERT WRIGHT 71	3:56.20 ROBERT WRIGHT 71	16:00.94 DEXTER WOODFORD 78	1:56.18 JOHN BROUK 75
51.42 HUGH COYLE 73	3:57.35 DAVID F. MULLIKEN 73	16:10.03 GARY WEISENTHAL 77	1:56.18 MIKE OFFNER 77
100 M. BRST M E N 70-74	400 M. I.M. M E N 70-74	16:35.00 A.WEGHE 76	2:07.34 JOHN D. JOHNSTON 76
1:33.20 BENNETT ALLEN 84	6:59.24 RAY TAFT 89	16:53.81 GENE CROSSETT 78	2:11.58 GEORGE POLLOCK 78
1:38.71 JOHN RICHARDS 70	7:20.71 RAYMOND F TAFT 73	17:04.29 WOODY BOWERSOCK 78	200 M. BRST M E N 75-79
1:41.83 BOB MERRICK 72	7:37.42 ALDO DA ROSA 74	18:43.60 FRANK TILLOTSON 77	3:44.71 DON MCCULLOUGH 91
1:42.60 PAUL KRUP 74	7:44.02 GERALD HUESTIS 72	1500 M. FREE M E N 75-79	3:44.97 ANTON M. CERER 75
1:43.04 ALDO DA ROSA 74	7:48.36 JERRY JARROLD 70	25:41.55 HERBERT HOWE 87	3:53.04 DON MCCULLOUGH 76
1:46.61 BOB MORRISON 71	8:07.74 JOHN WRENN 71	26:59.39 NORRIS FLUKE 75	3:56.98 RUSS WITTE 75
1:51.55 WILLIAM BROCK 70	8:25.31 DAVID F. MULLIKEN 73	29:36.29 JOHN MERRILL 75	4:12.77 NORRIS FLUKE 75
1:57.00 ROBERT WRIGHT 71	9:02.19 BOB ACKER 71	30:24.82 HAROLD SEXTON 77	4:15.51 MIKE OFFNER 77
2:00.64 BUD JACKSON 73	9:37.40 HERB MCCAULEY 70	30:26.54 JOHN D. JOHNSTON 76	4:16.37 JERRY EVERALL 77
2:01.65 KHOSROW SHADBEH 71	9:44.20 WILLIAM JOHNSTON 74	35:40.31 F.H. TILLOTSON 77	4:17.37 ROGER CHAMBERLAIN 75
2:02.03 BOB ACKER 71	11:19.19 REGINALD MCHUGH 73	36:02.26 DOC SCHOFIELD 78	4:33.94 JOHN D. JOHNSTON 76
200 M. BRST M E N 70-74	*****	50 M. BACK M E N 75-79	4:47.17 JOHN BROUK 75
3:32.90 ALDO DA ROSA 88	50 M. FREE M E N 75-79	40.47 ARTHUR HARGRAVE 82	5:11.51 GEORGE POLLOCK 78
3:45.17 BOB MERRICK 72	32.50 LYLE COLLET 83	42.24 ROBERT KNAPP 75	50 M. FLY M E N 75-79
3:46.32 ALDO DA ROSA 74	34.14 WOODY BOWERSOCK 79	43.70 JOHN MERRILL 75	41.25 KELLEY LEMMON 87
3:47.30 PAUL KRUP 74	35.39 ROBERT KNAPP 75	45.45 BEANS YAMAMOTO 75	42.44 ROBERT KNAPP 75
4:05.42 BOB MORRISON 71	35.47 PETE OKUMOTO 75	45.55 A.WEGHE 76	48.01 EDWIN WOLPAW 77
4:07.42 JOHN WRENN 71	35.49 BEANS YAMAMOTO 75	46.15 DAVE MALBROUGH 79	48.71 ALBERT VANDEWEGHE 75
4:15.38 WILLIAM BROCK 70	37.13 H.MORNINGSTAR 75	47.83 GARY WEISENTHAL 78	48.87 WILLIAM GRANT JR. 78
4:18.92 BUD JACKSON 73	37.26 ROY MORSE 75	47.88 CLIFF CROOME 75	49.22 GEORGE RAFTER 75
4:19.78 KHOSROW SHADBEH 71	37.34 WILLIAM GRANT JR. 78	48.54 ED SHEA 77	49.26 CLIFF CROOME 75
4:20.04 EARL WALTER 71	37.49 EDWIN WOLPAW 77	50.07 HANS KOLB 77	49.97 ROGER CHAMBERLAIN 75
4:25.90 BOB ACKER 71	38.59 BERNARD BERGMAN 75	52.14 WOODY BOWERSOCK 79	51.56 JACK MATTINGLY 78
50 M. FLY M E N 70-74	39.57 HAROLD SEXTON 77	100 M. BACK M E N 75-79	56.32 JOHN D. JOHNSTON 76
35.65 RAY TAFT 89	100 M. FREE M E N 75-79	1:32.92 ARTHUR HARGRAVE 82	1:06.25 GIL SPEAR 77
37.58 ANDREW HOLDEN 73	1:14.86 KELLEY LEMMON 87	1:39.20 JOHN MERRILL 75	100 M. FLY M E N 75-79
37.59 ROGERS HOLMES 70	1:23.75 PETE OKUMOTO 76	1:39.26 NORRIS FLUKE 75	1:39.80 ANTON CERER 92
39.27 HERB MCCAULEY 70	1:25.66 ROBERT KNAPP 75	1:40.14 A.WEGHE 76	1:39.80 ANTON M. CERER 75
40.23 HUGH RICHARDS 71	1:27.86 WOODY BOWERSOCK 79	1:46.87 DAVE MALBROUGH 79	1:52.57 E. DON MCCULLOUGH 76
40.98 PAUL KRUP 74	1:28.20 NORRIS FLUKE 75	1:47.31 BEANS YAMAMOTO 75	1:57.23 NORRIS FLUKE 75
41.99 RAYMOND F TAFT 73	1:28.62 EDWARD NAKAMURA 76	1:53.38 GARY WEISENTHAL 78	1:58.13 ROBERT KNAPP 75
42.77 BOB MORRISON 71	1:29.12 ROY MORSE 75	1:55.92 HANS KOLB 77	2:00.78 GEORGE RAFTER 75
43.68 FRANK HAVLICEK 73	1:29.66 HAROLD SEXTON 77	1:57.92 JACK KEEFE 77	2:12.99 JOHN D. JOHNSTON 76

TOP TEN

Long Course Meters

2:13.94 CLIFF CROOME	75	7:23.09 GUS LANGNER	83	2:37.67 JOHN GLENN	81	1:10.63 JOE KAUFMAN	87
2:16.29 WILLIAM GRANT JR.	78	8:08.40 LLOYD OSBORNE	82	3:01.48 ALBERT GILSDORF	82	1:11.40 HARRY JAGGERS	85
4:03.70 MAX LUNA	76	8:17.83 DAVID McAFEE	82	3:16.46 EDWARD MACKAY	83	1:23.42 GUS LANGNER	88
200 M. FLY M E N 75-79		8:18.23 TEX ROBERTSON	83	4:00.08 J. RAY O' CONNELL	80	100 M. BACK M E N 85-89	
3:43.56 ANTON CERER	92	9:07.01 JESSE COON	81	200 M. BRST M E N 80-84		2:18.74 REGINALD HARRISON	89
3:43.56 ANTON M. CERER	75	9:21.62 JAMES F. MITCHELL	80	4:25.69 HAROLD PERRY	92	2:24.58 PETER JURCZYK	86
4:18.93 E. DON MCCULLOUGH	76	9:32.63 RICHARD KANE	80	4:25.69 HAROLD PERRY	81	2:30.99 JOE KAUFMAN	87
4:46.28 JOHN D. JOHNSTON	76	10:25.79 LEONARD BRISCO	80	5:25.54 RUFUS CLARK	81	2:41.85 HARRY JAGGERS	85
5:23.63 CLIFF CROOME	75	10:26.78 ANDY HAAPANEN	81	5:25.61 JESSE COON	81	200 M. BACK M E N 85-89	
5:43.96 CARL W. THORNBURG	79	11:48.65 DON NEEFE	83	5:29.20 JIM PENFIELD	84	5:08.97 PETER JURCZYK	91
200 M. I.M. M E N 75-79		12:13.26 LARRY HART	80	5:57.93 LARRY HART	80	5:21.94 PETER JURCZYK	86
3:30.50 KELLEY LEMMON	87	800 M. FREE M E N 80-84		6:01.07 JOHN GLENN	81	5:29.02 JOE KAUFMAN	87
3:32.73 ANTON M. CERER	75	15:53.13 GUS LANGNER	85	7:02.33 ALBERT GILSDORF	82	6:17.94 HARRY JAGGERS	85
3:49.27 NORRIS FLUKE	75	16:43.46 DAVID McAFEE	82	8:06.23 ALFRED GAWLEY	80	6:54.70 GUS LANGNER	88
4:02.12 ROGER CHAMBERLAIN	75	17:24.48 TEX ROBERTSON	83	50 M. FLY M E N 80-84		50 M. BRST M E N 85-89	
4:06.51 CLIFF CROOME	75	21:46.74 RICHARD KANE	80	52.05 JESSE COON	91	1:01.47 AL KALLUNKI	89
4:16.71 JOHN D. JOHNSTON	76	22:54.28 DON NEEFE	83	52.66 JESSE COON	81	1:10.67 ANDREW KALLUNKI	87
4:34.82 CARL W. THORNBURG	79	27:39.24 LARRY HART	80	1:03.23 HAROLD PERRY	81	1:28.66 GUS LANGNER	88
4:41.86 WILLIAM GRANT JR.	78	1500 M. FREE M E N 80-84		1:04.01 JIM PENFIELD	84	100 M. BRST M E N 85-89	
4:48.30 WOODY BOWERSOCK	78	28:54.95 GUS LANGNER	83	1:15.39 RICHARD KANE	80	2:25.85 AL KALLUNKI	89
5:02.95 GIL SPEAR	77	35:50.08 JAMES F. MITCHELL	80	1:18.53 ALBERT GILSDORF	82	2:46.85 ANDREW KALLUNKI	87
5:08.33 ELMER PIERCE	77	50 M. BACK M E N 80-84		100 M. FLY M E N 80-84		3:08.99 ABE OLANOFF	86
400 M. I.M. M E N 75-79		45.69 ART HARGRAVE	87	2:21.06 JESSE COON	91	3:29.74 GUS LANGNER	88
7:33.32 ANTON CERER	92	49.50 CHARLES SALIE	80	2:31.91 JESSE COON	81	200 M. BRST M E N 85-89	
7:33.32 ANTON M. CERER	75	55.30 HAROLD O PERRY	80	3:43.12 RICHARD KANE	80	5:35.03 AL KALLUNKI	89
8:00.63 NORRIS FLUKE	75	56.24 JIM PENFIELD	84	200 M. FLY M E N 80-84		6:34.52 ANDREW KALLUNKI	87
8:16.07 E. DON MCCULLOUGH	76	56.92 JOHN GLENN	81	5:36.65 JESSE COON	92	50 M. FLY M E N 85-89	
8:50.32 CLIFF CROOME	75	57.11 JACK HOEY	82	5:36.65 JESSE COON	81	1:14.96 AL KALLUNKI	89
8:54.76 GEORGE RAFTER	75	59.11 DAVID McAFEE	82	7:59.93 RICHARD KANE	80	NO SWIMMERS	
9:12.88 JOHN D. JOHNSTON	76	59.98 LEE STARR	83	200 M. I.M. M E N 80-84		100 M. FLY M E N 85-89	
10:05.70 CARL W. THORNBURG	79	1:02.87 JAMES F. MITCHELL	80	4:22.70 HERB EISENSCHMIDT	87	3:23.06 ABE OLANOFF	91
10:45.15 GIL SPEAR	77	1:08.95 ANDY HAAPANEN	81	5:03.54 JESSE COON	81	NO SWIMMERS	
*****		1:09.10 DONALD STEVENSON	80	6:31.79 RICHARD KANE	80	200 M. I.M. M E N 85-89	
50 M. FREE M E N 80-84		100 M. BACK M E N 80-84		400 M. I.M. M E N 80-84		5:33.20 THOMAS CURETON	86
36.62 GERSON SOBEL	90	1:50.05 ART HARGRAVE	87	10:29.63 JESSE COON	91	NO SWIMMERS	
41.22 LIONEL PEREIRA	82	1:50.39 CHARLES SALIE	80	10:58.10 JESSE COON	81	400 M. I.M. M E N 85-89	
41.97 JOHN GLENN	81	2:06.13 JIM PENFIELD	84	*****		12:27.27 ABE OLANOFF	91
43.12 DAVID McAFEE	82	2:15.58 LEE STARR	83	50 M. FREE M E N 85-89		NO SWIMMERS	
43.36 WILLIAM MOLLOY	82	2:17.57 JOHN GLENN	81	44.65 GUS LANGNER	89	*****	
44.77 TEX ROBERTSON	83	2:17.72 DAVID McAFEE	82	47.16 GUS LANGNER	88	50 M. FREE M E N 90-94	
46.30 HAROLD O PERRY	80	2:20.37 JAMES F. MITCHELL	80	47.49 MAXWELL VOGT	87	59.88 COLLISTER WHEELER	84
47.23 DONALD LEATHERMAN	80	2:37.59 DONALD STEVENSON	80	54.46 PETER JURCZYK	86	2:17.68 ANTONIO LOPEZ	92
49.38 ANDY HAAPANEN	81	2:41.69 EDWARD MACKAY	83	58.02 JOE KAUFMAN	87	100 M. FREE M E N 90-94	
50.29 LEONARD BRISCO	80	3:23.60 RICHARD KANE	80	1:03.56 MARK ENGEL	88	2:14.06 COLLISTER WHEELER	84
50.50 JOHN MAXWELL	84	200 M. BACK M E N 80-84		100 M. FREE M E N 85-89		NO SWIMMERS	
100 M. FREE M E N 80-84		3:58.25 CHARLES SALIE	92	1:43.03 GUS LANGNER	88	200 M. FREE M E N 90-94	
1:28.22 GERSON SOBEL	90	3:58.25 CHARLES SALIE	80	1:54.41 GUS LANGNER	88	6:03.12 PAUL SPANGLER	90
1:40.79 TEX ROBERTSON	83	4:46.13 TEX ROBERTSON	83	1:55.70 MAXWELL VOGT	87	NO SWIMMERS	
1:42.52 LLOYD OSBORNE	82	4:46.46 JACK HOEY	82	2:16.61 JOE KAUFMAN	87	1500 M. FREE M E N 90-94	
1:43.03 DAVID McAFEE	82	5:08.61 JOHN GLENN	81	2:18.86 PETER JURCZYK	86	52:41.53 PAUL SPANGLER	90
1:43.31 LIONEL PEREIRA	82	5:19.49 JAMES F. MITCHELL	80	2:35.57 HARRY JAGGERS	85	NO SWIMMERS	
1:46.21 WILLIAM MOLLOY	82	5:44.49 JESSE COON	81	200 M. FREE M E N 85-89		50 M. BACK M E N 90-94	
1:51.89 JOHN GLENN	81	5:59.21 DONALD STEVENSON	80	3:48.91 GUS LANGNER	88	1:16.30 TOM LANE	89
1:59.13 ANDY HAAPANEN	81	50 M. BRST M E N 80-84		4:15.88 GUS LANGNER	88	2:10.52 ANTONIO LOPEZ	92
2:01.68 JOHN MAXWELL	84	49.49 BILL SHOTT	90	5:03.99 JOE KAUFMAN	87	100 M. BACK M E N 90-94	
2:03.73 LEONARD BRISCO	80	50.30 HAROLD PERRY	81	5:52.65 HARRY JAGGERS	85	4:45.88 TONY LOPEZ	91
2:07.22 JAMES F. MITCHELL	80	59.28 JIM PENFIELD	84	400 M. FREE M E N 85-89		4:56.22 ANTONIO LOPEZ	92
200 M. FREE M E N 80-84		59.39 WILLIAM MOLLOY	82	8:14.50 GUS LANGNER	88	200 M. BACK M E N 90-94	
3:31.79 GUS LANGNER	83	1:03.33 JOHN GLENN	81	9:09.92 GUS LANGNER	88	8:59.53 TONY LOPEZ	90
3:45.33 DAVID McAFEE	82	1:04.82 LARRY HART	80	11:19.96 JOE KAUFMAN	87	10:26.45 ANTONIO LOPEZ	92
3:52.62 TEX ROBERTSON	83	1:10.00 RUFUS CLARK	81	800 M. FREE M E N 85-89		50 M. BRST M E N 90-94	
3:55.45 LLOYD OSBORNE	82	1:13.73 ALBERT GILSDORF	82	17:11.21 GUS LANGNER	88	1:36.87 TOM LANE	89
4:10.91 LIONEL PEREIRA	82	1:18.30 EDWARD MACKAY	83	18:47.31 GUS LANGNER	88	NO SWIMMERS	
4:19.63 JESSE COON	81	1:33.94 LEONARD BRISCO	80	1500 M. FREE M E N 85-89		100 M. BRST M E N 90-94	
4:31.79 DONALD LEATHERMAN	80	1:42.15 J. RAY O' CONNELL	80	33:08.42 GUS LANGNER	89	5:16.03 LUDWIG MAGENER	82
4:33.34 RICHARD KANE	80	100 M. BRST M E N 80-84		NO SWIMMERS		NO SWIMMERS	
4:39.53 JAMES F. MITCHELL	80	1:57.51 HAROLD PERRY	92	50 M. BACK M E N 85-89		*****	
4:44.52 LEONARD BRISCO	80	1:57.51 HAROLD PERRY	81	59.15 PETER JURCZYK	91	50 M. FREE M E N 95 +	
4:50.70 JOHN GLENN	81	2:28.27 JIM PENFIELD	84	1:02.39 PETER JURCZYK	86	1:20.52 TOM LANE	89
400 M. FREE M E N 80-84		2:31.62 LARRY HART	80	1:02.53 MAXWELL VOGT	87	1:26.78 TOM LANE	98

TOP TEN Long Course Meters

100 M. FREE M E N 95 +	
NO RECORD	
3:30.59 TOM LANE	98NV
50 M. BACK M E N 95 +	
1:18.91 TOM LANE	89
1:29.88 TOM LANE	98
100 M. BACK M E N 95 +	
3:19.14 TOM LANE	92
3:19.14 TOM LANE	98
50 M. BRST M E N 95 +	
2:03.52 TOM LANE	89
2:39.54 TOM LANE	98

TOP TEN Long Course Meters

*****	VICKY DAVIDSON	27	JANE KATZ	49		
RELAYS: WOMEN 200 M. FREE	ARIZONA MASTERS	2:08.38	MARCIA CLEVELAND	28	200+	
*****	STACY COSTA	23	FRAN HARE	42	R:LOS ALTOS	92 2:09.35
76 +	RANE BURCH	28	OMAHA MASTERS	2:09.04	CAROLYN BOAK	
R:UNIV SAN FRAN	LISA SARTORI	27	SUSAN NEEDHAM	31	ARLENE PROEBSTING	
92	AMY DEARMAND	23	ERIN SULLIVAN	34	DELLA SEHORN	
1:59.29	PAC NORTHWEST	2:09.38	TRISH HARTIGAN	37	LAURA VAL	
CYNTHIA HINSHAW	TAMMI KEELER	23	JEAN APKER	32	LOS ALTOS	2:09.35
JANET HAUER	KATHLEEN PETERSON	24	GISA	2:09.06	CAROLYN BOAK	47
NATALIE EFFA	ANNAMARIE TERHAAR	31	SALLY HASBROOK	43	ARLENE PROEBSTING	49
BRENDA WICKLUND	MARIA BUSKE	30	JOAN DIERCKS	44	DELLA SEHORN	65
UNIV OF SAN FRAN	LAKESIDE	2:17.36	JULIE BOAZ	30	LAURA VAL	40
1:59.29	PAMELA HAEBERLIN	28	KATHY HOFSTETTER	36	TAMALPAIS	2:09.49
CYNTHIA HINSHAW	MARGARET DUNCAN	30			ANGELA KONIG	54
JANET HAUER	BARB QUESENBERRY	25	160+		SPERRY RADEMAKER	52
NATALIE EFFA	LESLIE ENANDER	31	R:D. C. MASTERS	88 2:03.48	JANE NICHOLS	50
BRENDA WICKLUND	WALNUT CREEK	2:23.59	JACKI HIRSTY		NANCY RIDOUT	50
PAC NORTHWEST	CATHY SWARTZ	24	NANCY KIRKENDALL		1776	2:21.30
1:59.98	JENNIFER LARSON	19	ANN SVANSON		DEBORAH CAIN	35
ZENA HERRMANN	KATHY BROWN	32	SUR HARRINGTON		STEPHANIE WALSH	42
33	DORI EMMRICH	33	SPM	2:05.76	BARBARA JOHNSON	59
DONA WILLIAMS	PARIS ISLAND	2:33.07	JONELLE SCHMIDT	41	JEAN TROY	65
38	PAM DRAFTS	35	JAYNE LAMBKE	52	DC MASTERS	2:24.79
YURIKO SATO	JULIE WARNER	30	ANNE PAGE	44	BARBARA ZAREMSKI	55
23	BETH TELLES	23	TERRI HOPPENRATH	35	JUDY EGGLESTON	43
DEBBIE FALSGRAF	LAURIE SPERRY	27	GISA	2:07.12	BARBARA FRID	50
H2OUSTON SWIMS			TRISCHA ZORN	28	JAYNE BRUNER	58
2:04.75			MARGIE HEINEMAN	55	LAKESIDE	2:27.28
JENNIFER STEVENS	120+		MARYANN STEVENS	39	CAROL FERGUSON	60
23	R:LONE STAR	87 1:53.05	SHARON WISE	45	WENDY MEDLEY	38
ANNE BERNHARD	MONICA BURK		LINC	2:08.10	MARY ANN STONE	58
27	BRIGITTE HEUER		MARGARET MORRIS	33	JEAN HENDERSON	45
LESLIE RONACHER	L. MORRISON-CASEY		CYNTHIA JONES	42	MACO	2:29.50
27	JACKI HIRSTY		IRENE DAVID	48	TERI HENDRYX	39
SHERRI WELDON	WALNUT CREEK	1:58.19	M.SHERLETON	37	LAVELLE STOINOFF	59
22	PAULA ROEMER	31	SAN DIEGO SWIM	2:09.29	JOYCE BAHLER	62
MULTNOMAH A.C.	CATHY COOLEY	34	CATHY V NEVILLE	35	MARJORIE MEEK	40
2:06.66	BETSY HENRY	33	BETSY T JORDAN	55	PAC NORTHWEST	2:36.26
MICHELLE DONAHUE	PAMELA BOSCOVICH	29	PATRICIA B THOMAS	34	KATHRINE CASEY	43
24	OREGON	2:01.21	MARILYN AS FINK	38	ANN GINDROZ	54
LISA ELLIOTT	LISA DAVIS	28	RMM	2:11.86	CYNTHIA ROSIK	59
20	PAMELA AUSTIN	29	LAURI NICHOLS	32	SUZANNE DILLS	47
KATHLEEN BOYD	TONI HECKSEL	26	KAREN HOGAN	38	GISA	2:38.82
21	PATRICIA MCKAY	37	LOUISE MANN	65	CATHY BIRSFIELD	45
SANDI BAHLER	WEST HOLLYWOOD	2:01.70	SHARON LAHEY	33	SHIRLEY SCOTT	63
CRAW	ANDREA DEVUONO	30	OREGON	2:15.56	BARBARA LARSON	44
2:11.43	SUZANNE SAATKAMP	30	SANDI ROUSSEAU	44	SUSAN HEWETT	49
KIMBERLY FARR	E.HALOUZKA	27	JUDY BELFORD	43	GKMS	2:40.00
20	MORRI SPANG	35	MONIKA HUNSCHER	44	JUANITA WILLARD	72
AMBER DANSKY	VIRGINIA MASTER	2:02.20	SUZANNE COOPER	42	BARBARA HANSEN	55
20	TERRY GAULT	41	GOST	2:18.06	JEAN FOX	57
MELINDA STEELE	L.BENNETT-WILLIAM	36	LAURA KESSLER	31	MOLLY MYERS	42
22	MARIA VELIKONJA	34	BEVERLY MYERS	57	HLJ "A"	2:47.40
PAIGE HARPER	PAULA JONES	23	LORI NOSKOWIAK	28	FLORENCE E. CARR	67
SPM "A"	DAVIS AQUATIC	2:02.30	MARY WHITE MANLEY	48	MAG L. BOWEN	33
2:12.20	MELISSA BEATY	35	SPCO	2:18.13	BETTY B. LA ROCHE	44
HILARY S. BOOTH	C.CHICHESTER	29	BETSY HOBBS	38	JOAN M. GLARATON	65
26	CHRISTINE WINN	26	JAN PANCAKE	46		
MARY F. KYLE	KIMBERLY MCCORD	31	CAROL COWEN	40	240+	
29	LAKESIDE	2:02.99	HELEN RYAN	36	R:NEW ENGLAND	88 2:35.32
J.K. SWISHER	MARY CHRIS CURL	35	OREGON	2:18.77	DOROTHY CARR	
19	PAM MARTIN	34	SUSAN CASE	43	CLARA WALKER	
S.B. BROWNSTEIN	SUSAN AUGUSTUS	25	PAMELA HIMSTREET	48	BILLIE BURRILL	
25	JEAN RUEFF	34	JOANIE KREHBIEL	30	DIANNE REED	
PAC NORTHWEST	HUSKY	2:05.75	NANCY BROOKS	49	WALNUT CREEK	2:41.30
2:13.27	TAMI BENNETT	35	VMST	2:19.84	BETTY BARABASH	64
TERI REID	MARGARET LLOYD	31	JOHNNIE DETRICK	56	JOAN ALEXANDER	60
24	ANNE HEALEY	36	NANCY MILLER	42	ANN PISCIOTTA	61
KATHY PETERSON	AMY RUST	33	BETSY DURRANT	50	BARBARA JORDAN	55
24	EMPIRE STATE	2:08.78	L.BENNETT-WILLIAM	36	PAC NORTHWEST	2:43.30
KIM HAY	COLLEEN DRISCOLL	34				
23						
ERIKA GISTE						
20						
100+						
R:OREGON						
92						
1:52.47						
SHANNON HERINGER						
GRACIE GODDARD						
LEISSA MILLS						
LINDA FINLEY						
OREGON						
1:52.47						
SHANNON HERINGER						
24						
GRACIE GODDARD						
32						
LEISSA MILLS						
32						
LINDA FINLEY						
27						
O*H*I*O						
1:58.26						
JENNIFER SMITH						
25						
ROBIN KALMAN						
32						
JENNIFER UEBELE						
27						
ERIN BORDEN						
30						
HLJ "A"						
2:05.36						
LINDA S. NEARY						
28						
SARAH B. WILLIAMS						
28						
DEBRA L. GOODWYNE						
30						
MARY H. ROEBUCK						
30						
HEARTLAND A						
2:05.79						
STACY JOHNSON						
29						
REBECCA JACKMAN						
29						
PATTY STARKS						
32						

TOP TEN Long Course Meters

SUSAN DEARBORN	55	KAREN HANNAM	52	TISH BUCHER		PAULA JONES	23
MURIEL FLYNN	69	SPM	3:47.21	MARY HOLMES		L.BENNETT-WILLIAM	36
BETTY KERCHEVAL	67	MARIAN MCKECHNIE	87	O*H*I*O	2:13.77	MARIA VELIKONJA	34
JOY ROGERS	50	WIN KENNEDY	79	ERIN BORDEN	30	TERRY GAULT	41
O*H*I*O	2:45.97	KAY SCHIMPF	75	JENNIFER UEBELE	27	WALNUT CREEK	2:20.27
LILLY KRON	60	SANDY STEER	53	JENNIFER SMITH	25	PATTY LANDERS	35
SYLVIA HILL	70	HLJ	3:50.70	ROBIN KALMAN	32	CATHY COOLEY	34
PRUDENCE HALL	54	MARJORIE NEWMAN	68	OREGON	2:14.57	CHARLENE O'BRIEN	35
BETTY JANE RUSS	65	RACHEL ERWIN	72	SHANNON HERINGER	24	BETSY HENRY	33
MULTNOMAH A.C.	2:48.98	MILLIE HUPP	76	LINDA FINLEY	27	DAVIS AQUATIC	2:22.74
LAVELLE STONOFF	59	VICKEE SULLIVAN	75	TONI HECKSEL	26	KIMBERLY MCCORD	31
BETSY AUSTEN	65	RMM	3:54.72	GRACIE GODDARD	32	CHRISTINE WINN	26
JOYCE BAHLER	62	PEGGY BUCHANNAN	59	HLJ "A"	2:21.77	C.CHICHESTER	29
MARY WOLFE	66	SALLY RYCKMAN	80	SARAH B. WILLIAMS	28	MELISSA BEATY	35
SAN DIEGO SWIM	2:52.94	A.HOTTINGER	70	MARY H. ROEBUCK	30	OREGON	2:23.03
BOBBI I TURCOTTE	65	AGOTA FROHS	72	LINDA S. NEARY	28	JOANIE KREHBIEL	30
ALICIA COLEMAN	67	PAC NORTHWEST	4:00.65	DEBRA L. GOODWYNE	30	PAMELA AUSTIN	29
DIANA M SILVA	70	MAXINE CARLSON	72	HEARTLAND A	2:24.44	NANCY SMITH	33
BARBARA G DUNBAR	43	LEE HOLM	77	VICKY DAVIDSON	27	LISA DAVIS	28
WALNUT CREEK MA	3:01.32	JANET KAVADAS	61	STACY JOHNSON	29	WEST HOLLYWOOD	2:23.77
SALLY MORNER	56	PAT MATTHIESEN	76	PATTY STARKS	32	ANDREA DEVUONO	30
YOLANDE HOSS	59	ROCKY MOUNTAIN	4:14.39	REBECCA JACKMAN	29	ERIN CHILDS	34
ELFRIEDE ROGERS	64	SALLY RYCKMAN	80	VM	2:29.30	MORRI SPANG	35
BETTY MCMILLAN	63	FRANCES HOLMES	65	ROBIN HAMPTON	25	KATHY CONTE	45
LAKESIDE MASTER	3:07.14	LUELLA HEATH	72	STACEY DYMOND	28	HUSKY	2:23.96
MEME HABICH	77	AGOTA FROHS	72	JILL WALSH	32	MARGARET LLOYD	31
CAROL FERGUSON	60	OREGON	4:14.40	PAULA JONES	23	AMY RUST	33
MARY JANE MULLINS	61	ELFIE STEVENIN	71	LAKESIDE	2:31.90	TAMI BENNETT	35
MARY ANN STONE	58	JUDY MELCHER	72	LESLIE ENANDER	31	ANNE HEALEY	36
SANTA BARBARA	3:17.44	EVELYN MCKEON	78	PAMELA HAEBERLIN	28	WH20	2:23.98
PEGGY SANBORN	65	PAULINE STANGEL	70	BARB QUESENBERRY	25	LISA BOVE	31
GRACE ALTUS	68	*****		MARGARET DUNCAN	30	ERIN CHILDS	34
SHIRLEY BAIRD	61	RELAYS: WOMEN 200 M. MEDLEY		PALM SPRINGS	2:32.96	MORRI SPANG	35
RUTH BAAR	69	*****		LORI WESTRA	25	MARIANNE KELLY	29
PAC NORTHWEST	3:23.68	76 +		TRACEY MCFARLANE	25	SPM "A"	2:25.87
LYNN MARTINDELL	44	R:UNIV SAN FRAN 92	2:12.59	VANESSA RICHEY	25	JUDY K. STEFANICK	41
MARION MUELLER	80	CYNTHIA HINSHAW		KANDI HOVSEPIAN	33	LISA A. FLANAGAN	29
HELEN SCHUCHART	73	JANET HAUER		WALNUT CREEK	2:33.02	JAYNE M. LAMBKE	52
KATE SUTHERLAND	44	NATALIE EFFA		KIM CARLSON	29	LORI J. STAUCH	27
RALEIGH AREA	3:38.07	BRENDA WICKLUND		KATHY BROWN	32		
SANDRA KREMER	56	UNIV SAN FRAN	2:12.59	CHARLENE O'BRIEN	35	160+	
BUZ CATLIN	77	CYNTHIA HINSHAW	22	MICHELLE MCCLURE	24	R:RMM	92 2:15.86
JUDY ANN KELLY	76	JANET HAUER	24	CRAW	2:55.86	SHARON LAHEY	
CEIL BLACKWELL	51	NATALIE EFFA	24	NANNETTE CHERI	36	CATHY DROZDA	
		BRENDA WICKLUND	23	AMBER DANSKY	20	JUDY REED	
280+		PAC NORTHWEST	2:18.05	CAROL CLARK	25	MARCY BULLOCK	
R:WALNUT CREEK 92	3:17.96	ZENA HERRMANN	33	LAURA ORTEGO	31	RMM	2:15.86
SALLY JOY		DEBBIE FALSGRAF	27	NCYM	3:10.91	SHARON LAHEY	33
JEAN DURSTON		TAMMI KEELER	23	DEBRA PITTS	29	CATHY DROZDA	33
JAE HOWELL		MARIA BUSKE	30	CATHERINE SWAN	32	JUDY REED	48
DONNA MONROE		H2OUSTON SWIMS	2:23.66	COLEEN EGAN	31	MARCY BULLOCK	49
WALNUT CREEK	3:17.96	JENNIFER STEVENS	23	PHILLIPS CATH	27	GISA	2:23.81
SALLY JOY	75	LESLIE RONACHER	27			TRISCHA ZORN	28
JEAN DURSTON	78	ANNE BERNHARD	27	120+		SALLY HASBROOK	43
JAE HOWELL	69	SHERRI WELDON	22	R:D C MASTERS 87	2:11.61	SHARON WISE	45
DONNA MONROE	58	MULTNOMAH AC	2:24.79	SUE SKIFF		MARGIE HEINEMAN	55
SLM	3:23.39	MICHELLE DONAHUE	24	SUZANNE O'HARA		SPM	2:26.79
EDITH HENDRY	81	SANDI BAHLER	24	C. R. -PROSCHE		JONELLE SCHMIDT	41
CHERYL CORBETT	60	LISA ELLIOTT	20	BETH O'CONNOR		LISA ROSS	37
DORIS PETERS	69	H.MCLAUCHLAN	30	WALNUT CREEK	2:14.44	JAYNE LAMBKE	52
ANNALOU CARRIER	71	PAC NORTHWEST	2:28.73	PAMELA BOSCOVICH	29	ANNE PAGE	44
O*H*I*O MASTERS	3:43.19	KATHLEEN PETERSON	24	LAURIE KILMARTIN	27	EMPIRE STATE	2:28.78
BETH HANKS	76	ANNAMARIE TERHAAR	31	DEBBIE FLANSBURG	36	CHRISTINE ZIMMET	44
RUTH WUNDERLICH	73	KIMBERLEY HAY	24	PAULA ROEMER	31	J.MURPHY-SHERMAN	48
SYLVIA HILL	70	PHYLLIS GILL	35	LAKESIDE MASTER	2:16.35	COLLEEN DRISCOLL	34
BETTY JANE RUSS	65			JEAN RUEFF	34	FRAN HARE	42
DC MASTERS	3:44.93	100+		A.WRIGHT-BELKNAP	41	OREGON	2:29.41
HEDY PULLMAN	81	R:HOLMES 88	2:06.67	SUSAN AUGUSTUS	25	JUDY BELFORD	43
ANNE WALKER	76	BETH MAUER		MARY CHRIS CURL	35	PAMELA HIMSTREET	48
NANCY CLARK	78	DEB WALKER		VIRGINIA MASTER	2:18.50	SANDI ROUSSEAU	44

TOP TEN Long Course Meters

160+			JEAN DURSTON			MORRI SPANG	35	JOAN ALEXANDER	60
R:TAMALPAIS	92	4:46.38	SALLY JOY			WALNUT CREEK	5:28.85	BETTY BARABASH	64
OLIVIA MOORE			MARY JANE REEVES			KIM CARLSON	29	SAN DIEGO SWIM	7:01.69
ANGELA KONIG			WALNUT CREEK	8:38.59		KATHY BROWN	31	BOBBI I TURCOTTE	64
NANCY RIDOUT			FRIEDA SIDORSKI	75		PATTY LANDERS	35	ALICIA COLEMAN	66
SUZANNE HEIM			MARY JANE REEVES	75		PAULA ROEMER	31	BARBARA G DUNBAR	43
TAMALPAIS	4:46.38		JEAN DURSTON	78		LAKESIDE	5:35.48	DIANA M SILVA	70
OLIVIA MOORE		33	YOLANDE HOSS	58		JEAN RUEFF	34	O*H*I*O MASTERS	7:27.28
ANGELA KONIG		53	SAN MATEO	9:20.29		CHRIS CURL	35	LUISE EASTON	53
NANCY RIDOUT		50	EDIE GOLDMAN	81		GINA GATTI	29	LILLY KRON	60
SUZANNE HEIM		34	HILDA BUEL	77		JEAN HENDERSON	41	BETTY JANE RUSS	65
SOUTH BAY	5:41.08		HELEN ROUMASSET	76		DAVIS AQUATIC	6:18.91	SYLVIA HILL	70
MARCIA BARRY		43	AUDREY ETIENNE	75		JENNIFER BLAKE	23		
CAROLE SHIGAKI		37	*****			TINA WALLIS	22	280+	
PATRICIA BAXTED		55	RELAYS: WOMEN 400 M. MEDLEY			CHRISTINE WINN	26	R:WALNUT CREEK	91 9:27.69
MIMI FRANK		45	*****			BETTY DUGAN	51	PAT PREVETZ	
WH20	5:56.74		76 +			HEARTLAND B	6:19.64	MARY JANE REEVES	
ARIEL LEVIN		41	R:SACRAMENTO	92 5:07.42		SHELLY TOLMAN	29	SALLY JOY	
JESSICA SEATON		39	MINDY WRIGHT			VIRGINIA BENDIK	39	JEAN DURSTON	
KATHY CONTE		45	LISA CHRISTO			SUE TOLMAN	31	SAN MATEO	10:44.19
MICHELE VELA		40	SUE LOWREI			SHERYL CONNER	31	AUDREY ETIENNE	75
SAN MATEO	6:17.31		DONNA NICHOLAS			WILDCAT	6:40.83	HILDA BUEL	77
PAM CATLING		35	SACRAMENTO	5:07.42		GAIL O'MALLEY	37	HELEN ROUMASSET	76
DONNA DUNN		44	MINDY WRIGHT	24		JEANNIE JOHNSON	30	EDIE GOLDMAN	81
AUDREY ETIENNE		75	LISA CHRISTO	24		MEG SMATH	35	*****	
MITZIE ZWERLEIN		32	SUE LOWRIE	24		JAN SHULER	39	RELAYS: WOMEN 800 M. FREE	
SPM	6:17.61		DONNA NICHOLAS	24		WH20	6:48.44	*****	
COLLEEN M. EGAN		39	LAKESIDE	5:56.11		KATHY CONTE	45	76 +	
MARY E. BARKER		42	LESLIE ENANDER	31		ERIN CHILDS	34	R:SANTA CRUZ	89 11:36.22
JAYNE M. LAMBKE		52	SUZANNE DUDGEON	24		LISA BOVE	31	LEA WATKINS	
COLLEEN M. EGAN		58	SUSAN AUGUSTUS	25		MICHELE VELA	40	KARIN BOEHLER	
			MARGARET DUNCAN	30				DONNA SEXTON	
								SHARRON HAMILTON	
								NO RELAY TEAMS	
200+			100+			160+			
R:SAN DIEGO	90	5:27.04	R:WALNUT CREEK	92 4:55.59		R:SAN DIEGO	89 5:24.49	100+	
ADRIENNE PIPES			PAM BOSCOVICH			BETSY JORDAN		R:WALNUT CREEK	89 9:50.91
BETSY JORDAN			LISA TALLMAN			SUSIE LEIPER		CAROL LEE-HELTZEL	
BARBARA DUNBAR			DEBBIE FLANSBURG			BARBARA DUNBAR		CATHEY COOLEY	
JEANNE LITTLE			WENDY INGRAHAM			MARILYN FINK		DEBBIE FLANSBURG	
WALNUT CREEK	7:19.06		WALNUT CREEK	4:55.59		RINCONADA	6:36.71	AMY REIGER	
JEAN DUNCAN		59	PAM BOSCOVICH	29		KATHERINE BASS	40	HEARTLAND A	10:58.07
BETTY MCMILLIAN		63	LISA TALLMAN	27		PATSY WEISS	69	STACY JOHNSON	29
ELFRIEDE ROGERS		64	DEBBIE FLANSBURG	36		ONDINE PARKER	25	REBECCA JACKMAN	29
SALLY MORNOR		55	WENDY INGRAHAM	27		JUDITH SCHWARTZ	37	PATTY STARKS	32
			HEARTLAND A	5:12.81				VICKY DAVIDSON	27
240+			VICKY DAVIDSON	27		200+			
R:WALNUT CREEK	92	6:15.17	STACY JOHNSON	29		R:D C MASTERS	91 5:48.73	120+	
BETTY BARABASH			PATTY STARKS	32		BARBARA FRID		R:SAN DIEGO	90 9:48.97
JOAN ALEXANDER			REBECCA JACKMAN	29		JOANN LEILICH		RHONDA HRONESH	
ANN PISCIOTTA			DAVIS AQUATIC	5:18.10		ANN SVANSON		CATHY NEVILLE	
BARBARA JORDAN			BETH SKOREY	20		JAYNE BRUNNER		BETH KNIGHT	
WALNUT CREEK	6:15.17		C.CHICHESTER	29		RINCONADA	6:36.12	BARBARA DUNBAR	
BETTY BARABASH		64	JENNIFER NORRIS	25		SUE SPRINGER	53	WALNUT CREEK	10:26.33
JOAN ALEXANDER		60	MELISSA BEATY	34		BOBBIE CALLISON	59	PAM BOSCOVICH	29
ANN PISCIOTTA		61	LAKESIDE	5:56.31		REBECCA PINTO	37	DEBBIE FLANSBURG	36
BARBARA JORDAN		55	LESLIE ENANDER	31		CAROL REMEN	53	PATTY LANDERS	35
RINCONADA	6:29.80		SUZANNE DUDGEON	24		LAKESIDE	8:28.34	BETSY HENRY	33
SALLY SCHOLER		68	SUSAN AUGUSTUS	25		MARY ANN STONE	58	HEARTLAND B	12:09.25
PATSY WEISS		69	MARGARET DUNCAN	30		JOYCE VOIT	57	SUE TOLMAN	31
CAROL REMEN		53				CAROL FERGUSON	60	SHELLY TOLMAN	29
BOBBIE CALLISON		59	120+			PATSY KAE LIN	40	SHERYL WALKER	36
O*H*I*O MASTERS	6:48.41		R:WALNUT CREEK	91 5:00.94				SHERYL CONNER	31
LUISE EASTON		53	PAM BOSCOVICH			240+			
BETTY JANE RUSS		65	WENDY INGRAHAM			R:WALNUT CREEK	92 6:50.38	160+	
SYLVIA HILL		70	DEBBIE FLANSBURG			BARBARA JORDAN		R:SAN DIEGO	91 10:33.64
MARIANNE BROGAN		57	CATHY COOLEY			ANN PISCIOTTA		BETASY JORDAN	
			CATHY COOLEY			JOAN ALEXANDER		BARBARA DUNBAR	
			WEST HOLLYWOOD	5:07.94		BETTY BARABASH		MARILYN FINK	
280+			ANDREA DEVUONO	30		WALNUT CREEK	6:50.38	BETH KNIGHT	
R:WALNUT CREEK	89	8:01.05	SUZANNE SAATKAMP	30		BARBARA JORDAN	55		
JAE HOWELL			E.HALOUZKA	27		ANN PISCIOTTA	61		

TOP TEN Long Course Meters

NO RELAY TEAMS		STEPHEN STAHL	27	MIKE KECK	32	RICHARD HAAS	42
200+		CHRIS BOND	25	LINC	1:40.82	TRUETT SMITH	41
R:SAN DIEGO	90 11:58.26	JEFFREY RODGERS	26	BOB YOUNG	27	DAVID HAGUE	38
ADRIENNE PIPES		TOM MONTOYA	25	DAVE GIBSON	31	GOST	1:48.31
BETSY JORDAN		H2OUSTON SWIMS	1:43.56	BRYAN BATEMAN	44	JOHN PEARSON	26
JEANNE LITTLE		DAVID GUTHRIE	32	TED SOLTYS	32	THOMAS TRIPP	50
BARBARA DUNBAR		WILLIAM BONHAM	40	BLS	1:40.94	YOSHI OYAWAKA	58
NO RELAY TEAMS		SIMON FINLAYSON	24	JAMES MONTGOMERY	37	JOE REINHARDT	31
		RUSSELL KNEIPP	23	RICHARD HESS	37	OREGON	1:48.53
		TNYA	1:43.87	BOBBY PATTEN	29	VERN DASCH	43
240+		RICK REYNOLDS	31	TIM GLENN	36	MIKE PENDLETON	40
R:WALNUT CREEK	92 13:28.86	PATRICK RIORDAN	29	MULTNOMAH A.C.	1:41.89	CHARLES SCHARPF	42
BETTY BARABASH		MARK SCHOOFS	29	DIRK MARSHALL	29	JESS HICKERSON	39
JOAN ALEXANDER		BRUCE HAYES	29	DAVID BURLESON	35	GISA	1:48.54
ANN PISCIOTTA		MULTNOMAH ATHLE	1:44.25	ANDREW MOREHOUSE	31	ROGER JONES	44
BARBARA JORDAN		GREG COOPER	24	JOHN KEPPELER	25	RIC HOFSTETTER	35
WALNUT CREEK	13:28.86	ALEX STILES	26	GAKW	1:45.11	BOB WOOD	33
BETTY BARABASH	64	DOUG MOSHOFSKY	30	RIC JOHNSON	36	BILL WOOD	50
JOAN ALEXANDER	60	JASON HENNEMAN	23	JOSEPH MAGIERA	35	SAN DIEGO SWIM	1:49.06
ANN PISCIOTTA	61	OREGON	1:44.40	REED FARRIS	37	RONALD A MARCIKIC	42
BARBARA JORDAN	55	THOMAS KAHL	26	IGOR VAZHENIN	28	BILL EARLEY	55
O*H*I*O MASTERS	14:27.55	MATTHEW ROTH	25	TEXAS AQUATICS	1:45.52	WILLIAM G BEHUN	40
BETTY JANE RUSS	65	REX WATKINS	28	JIM SHRULL	27	M.B STINCHCOMBE	35
LUISE EASTON	53	DALE WALKER	28	MARK STORRER	30		
MARIANNE BROGAN	57	SWIM WITH AEROB	1:45.25	DAVID VANDAM	36	200+	
SYLVIA HILL	70	EDUARDO ALTILIO	30	LARRY WOOD	38	R:OLYMPIC CLUB	92 1:47.65
		DAN LAWSON	29	WH20	1:46.01	ROBERT STRAND	
280+		BRYAN AUSTIN	37	JIM RHYNE	26	DONALD HILL	
R:WALNUT CREEK	92 16:17.09	ALBERT VAN DIJK	21	RICHARD HUNTER	43	JAMES ELDER	
JEAN DURSTON		AIR FORCE AQUAT	1:46.00	KURT MURDOCH	26	BOB MOMSON	
MARY JANE REEVES		MICHAEL VETTER	22	MARK SPRATT	36	OLYMPIC CLUB	1:47.65
JAE HOWELL		BRIAN CANINO	31	OREGON	1:46.27	ROBERT STRAND	46
DONNA MONROE		MICHAEL BROWN	27	ANDREW POTTER	22	DONALD HILL	60
WALNUT CREEK	16:17.09	JOE WOTTON	33	MICHAEL REINHARD	33	JAMES ELDER	49
JEAN DURSTON	78	1776	1:46.49	CURT LACOUNT	33	BOB MOMSEN	45
MARY JANE REEVES	75	PETER DARDARIS	33	ANDY SCHRAG	35	LOS ALTOS	1:50.96
JAE HOWELL	69	F.CHARMFOROOSH	26			THOMAS BOAK JR.	49
DONNA MONROE	58	MICHAEL CASCIATO	32	160+		EDWARD CAZALET	50
*****		W.VOLCKENING	26	R:HOLMES	90 1:39.27	ROBERT PROEBSTING	55
RELAYS: M E N 200 M. FREE		GМКW "B"	1:46.88	JAMES DILLEY		DAVID GRAY	46
*****		JAY JOHNSON	26	C. MILTENBERGER		PAC NORTHWEST	1:55.50
76 +		TROY HOGSED	27	RICHARD ABRAHAMS		GARY HAFER	41
R:D.C. MASTERS	91 1:42.33	CLAY STANTON	25	TIMOTHY GARTON		ROBERT DORSE	60
DEREK BOORN		BUDD WATTS	27	TOC	1:41.21	DAVE HANNULA	38
JOHN MATSON		HLJ "A"	1:48.00	MARYANN STEVENS	39	THOMAS TAYLOR	61
JIM SKIRBOLL		WALTER STEELE	28	GREGORY SMITH	36	OREGON	1:56.63
JOE WALTER		CRIS A. WILLIAMS	31	STUART CORLISS	36	BERT PETERSEN	53
FLA "A"	1:48.42	GENE R. KENNEDY	32	STEVE CLARK	49	ROBERT SMITH	49
ANDREW S. KROUPA	23	JACK C. MC KEAN	27	RMM	1:41.40	RICHARD BOYD	49
BRENT R. VREELAND	21			TOM WHATLEY	40	TOM FANNING	52
GUILLO C. CINTRON	23	120+		RICHARD ABRAHAMS	47	GISA	1:57.55
THOMAS E. MOLE	23	R:LONE STAR	86 1:37.43	HOLDEN BANK	32	JEFF COOKE	47
TNYA	1:51.44	DAVID		KEVIN POLANSKY	42	ROBERT BADGER	61
SCOTT HIROSE	26	TRIP HEDRICK		O*H*I*O	1:45.60	MARTY MENNEN	55
DAVID GUION	29	SMITH		LEE EISINGER	43	WILLIAM VICKERY	38
JACK MACKENROTH	23	JIM MONTGOMERY		LOU HORWITZ	39	SAN DIEGO SWIM	1:58.21
ALEXANDER HALL	20	1776	1:39.11	HARRY GREENFIELD	47	BILL EARLEY	55
COBB "A"	2:04.42	CHARLES NORELLI	37	KARL KAZMAIER	37	JOHN GOODE	58
YIT AUN LIM	34	ROBERT KROTEE	37	PAC NORTHWEST	1:46.27	DAVE DRUM	57
SEAN WILLIAMS	27	MARK SCHUMAN	36	STEPHEN FREEBORN	37	CHRIS DIXON	34
STEVE BARR	30	STU MARVIN	36	DICK GREEN	40	TAMALPAIS AQUAT	1:59.53
BRENT NELSON	21	WALNUT CREEK MA	1:39.21	RICHARD PETERSON	41	RICHARD BURNS	49
		JAMES FEGAN	31	FRANK WARNER	43	DOUGLAS STEVENS	49
100+		GERALD FERRIS	38	PAC NORTHWEST	1:47.58	GARY PARLAPIANO	45
R:HOUSTONIAN CLUB90	1:36.15	GREG REMMERT	30	ALAN BELL	42	DORE SCHWAB JR.	70
JAMES PRUNGLE		VERN ROGERS	31	RICK COLELLA	40	CONN	1:59.63
STUART KNOWLES		TOC	1:39.69	JIM LEONARD	41	RONALD MOLNAR	50
JEFF FREY		GARY ANTONICK	29	STEVE SUSSEX	37	MIKE LAUX	50
JOHN SMITH		DAVID LUNDBERG	31	BLS	1:47.83	WAYNE SHADBOLT	68
WALNUT CREEK MA	1:37.97	JEFF STILING	31	STEPHEN BOSTER	41	JAMES BAYLES	40

TOP TEN Long Course Meters

GKMS	2:02.11	JOHN RICHARDS	ALLAN SACHS	79	CHIP CASTAGNOS	23		
WANG LAU	55	JAY CRADDOCK	*****		JEFF JANES	19		
CHIP HASTINGS	51	JACK MCCANN	RELAYS: M E N 200 M. MEDLEY		HLJ "A"	2:01.77		
WILLIAM LAUER	57	HUGH RICHARDS	*****		WALTER STEELE	28		
WILL ARTLEY	37	LAM	76 +		CRIS A. WILLIAMS	31		
PAC NORTHWEST	2:03.72	JOHN RICHARDS	70	R:UNIV SAN FRAN	92	1:52.24	JACK C. MC KEAN	27
WALTER REID	52	JAY CRADDOCK	71	ANDREW GELLER			ROY C. DEARY	30
SONNY GARRETT	48	JACK MCCANN	70	JOHN HARLOW			GMKW "A"	2:02.42
ROBERT GRIFFITH	50	HUGH RICHARDS	71	GREG MACKEM			CLAY STANTON	25
STEVEN THRASHER	50	OREGON	2:17.92	GARY YANG			JAY JOHNSON	26
		GERALD HUESTIS	72	UNIV SAN FRAN	1:52.24		BUDD WATTS	27
240+		FLOYD ELIOTT	65	ANDREW GELLER	24		TROY HOGSED	27
R:GOST	92	EARL WALTER	71	JOHN HARLOW	24	GMKW	2:03.59	
THOMAS OLANDER		ANDREW HOLDEN	73	GREG MACKEM	24	RANDY HYRE	28	
SID HALL		LINC	2:27.34	GARY YANG	23	MIKE MCCOOL	29	
KEITH CARTER		JOHN MASTERS	61	PAC NORTHWEST	2:04.65	IGOR VAZHENIN	28	
JOHN FLORANCE		GEORGE GANDSEY	68	JOHN UNDERBRINK	34	PATRICK LAUGHLIN	38	
GOST	1:58.54	FRANK HAVLICEK	73	ANDREW LOVAN	26	SAN MATEO	2:04.61	
THOMAS OLANDER	50	DAVE MALBROUGH	79	STEVEN SCHMIDT	30	JOEL GILBERTS	29	
SID HALL	56	OHIO	2:33.38	JOHN POTTLE	34	KEVIN LADD	31	
KEITH CARTER	67	GEROGE RAFTER	75	TNYA	2:04.98	MIKE SURBER	29	
JOHN FLORANCE	69	PAUL KRUP	74	SCOTT HIROSE	26	BRIAN BOLSTER	29	
SOUTHERN CALIFO	2:06.11	ANTON CERER	75	JACK MACKENROTH	23	LINC	2:04.72	
MICHAEL HEATHER	38	JOHN DAILY	64	ALEXANDER HALL	20	HAL LUSK	28	
LEE ARTH	67	OREGON	2:34.38	MARK SCHOOF	29	KARL PAULIUS	29	
FRANK PIEMME	67	FORBES MACK	73	FLA "A"	2:07.06	GREGORY YOUNG	25	
BOB MERRICK	72	GILBERT YOUNG	70	THOMAS E. MOLE	23	GABRIEL FLECK	28	
1776	2:07.36	HERBERT HOEFTNER	70	GIULLO C. CINTRON	23			
HAROLD BEGEL	62	BOB MORRISON	71	BRENT R. VREELAND	21	120+		
WILLIAM CLINTON	60	GISA	2:34.56	ANDREW S. KROUPA	23	R:HOLMES	88	1:50.90
ROBERT KLAGES	61	JOHN PATTEN	71	COBB "A"	2:08.95	RICK SCHACKLE		
DANIEL CORNWELL	57	JOHN DILLEY	71	ALAN STUART	30	BRUCE HOWELL		
OLYMPIC CLUB	2:08.76	ALBERT EBBINGHAUS	68	SEAN WILLIAMS	27	MARK SCHUMAN		
FRANK GRANNIS	67	JOHN MAXWELL	84	BRENT NELSON	21	SAM SEIPLE		
RALPH PERRY	65	SPM	2:41.71	YIT AUN LIM	34	1776	1:50.98	
JAMES BOHAN	56	BILL MOLVIE	73	PAC NORTHWEST	2:31.40	PETER DARDARIS	33	
WILLIAM VAN HORN	53	ABRASHA BRAININ	69	STEPHEN WRIGHT	34	DOUG MALCOLM	35	
SAN DIEGO SWIM	2:10.79	KERMIT HOTVEDT	77	C.DEGRANDA	24	MARK SCHUMAN	36	
DONALD BAKER	61	BOB BEACH	61	FRANK NEWQUIST	54	STU MARVIN	36	
FRED WADSWORTH	63	GOST	2:45.48	ALAN COOPER	45	OLYMPIC CLUB	1:51.57	
DONALD HUBBARD	65	RUSS WITTE	75	100+		GARY ANTONICK	29	
KENNETH KIMBALL	61	CHARLES SALIE	80	R:HOUSTONION CLUB90	1:48.46	DAVID LUNDBERG	31	
SPM "A"	2:17.57	WILLIAM BROCK	70	CLAY BRITT		JEFF STILING	31	
C.H. KOHNKEN	60	ROY LAGALY	70	DEAN PUTTERMAN		MIKE KECK	32	
RAY S. BURNS	57	SAN DIEGO SWIM	2:47.05	ROBERT KILLEEN		BLS	1:55.22	
PAUL HUTINGER	67	CURTIS C WORLEY	73	JAMES PRINGLE		JAMES MONTGOMERY	37	
HAROLD FERRIS	61	JERRY R SIEFERT	74	MULTNOMAH A.C.	1:50.32	BOBBY PATTEN	29	
OREGON	2:20.09	CLIFF CROOME	75	JOHN KEPPELER	25	JOE SCHUSTER	39	
ERIC GUEST	62	JOHN W GOODE	58	GREG COOPER	24	RICHARD HESS	37	
ARTHUR WELCH	59	HLJ	2:49.58	DIRK MARSHALL	29	TXA	1:55.40	
MIKE POPOVICH	65	KEVIN KELLY	49	ALEX STILES	26	ANDERS RASMUSSEN	29	
JAMES HOLLAND	68	WILLIAM GRANT	78	H2OUSTON SWIMS	1:53.87	DAVID VANDAM	36	
GISA	2:21.00	CARL THORNBURG	79	SIMON FINLAYSON	24	LARRY WOOD	38	
DOUGLAS SCOTT	64	FRANK TILLOTSON	77	DAVID GUTHRIE	32	KENT WHITAKER	33	
FRANCIS MCAREE	61	320+		EDMUND DONALDSON	23	LINC	1:56.14	
IVAN CHALFIE	60	R:LONG BEACH	92	RUSSELL KNEIPP	23	DAVE GIBSON	31	
BUDDY COLLINS	57	DON NEEFE	2:59.65	WALNUT CREEK	1:54.64	JEFF STILING	31	
WALNUT CREEK	2:22.82	JOHN GLENN		GERALD FERRIS	31	TED SOLTYS	32	
HAROLD PERRY	81	LIONEL PEREIRA		STEPHEN STAHL	27	BOB YOUNG	27	
DONALD BROWN	59	WOODY BOWERSOCK		CHRIS BOND	25	WALNUT CREEK	1:59.69	
STAN MORNER	57	LONG BEACH	2:59.65	TOM MONTOYA	25	JEFFREY RODGERS	26	
JAMES SLAUGHTER	47	DON NEEFE	83	OREGON	1:56.91	KEVIN WARD	35	
ROCKY MOUNTAIN	2:22.83	JOHN GLENN	81	MATTHEW ROTH	25	GREG REMMERT	30	
JACK TRUBY	68	LIONEL PEREIRA	82	REX WATKINS	28	JOHN CUSTER	31	
JOHN WRENN	71	WOODY BOWERSOCK	78	THOMAS KAHL	26	WH20	2:00.64	
SANFORD PLATTER	53	PAC NORTHWEST	3:07.37	DALE WALKER	28	JIM RHYNE	26	
GEORGE KENRY	57	EVERETT CASSELL	79	CRAW	1:59.25	MATT KNIGHT	30	
		GENE CROSSETT	78	NEIL HARPER	27	PHILIP HAYMAN	30	
280+		JIM PENFIELD	84	STEVE HECK	42	RICHARD HUNTER	43	
R:LAM	92					PAC NORTHWEST	2:00.92	

TOP TEN Long Course Meters

J.BORNHEIMER	29	LEONARD BROCKHAHN	41	1776	2:27.81	ROBERT KOENIG	55
S.SCHUFREIDER	36			ROGER FRANKS	65	ROY LAGALY	70
STEVE SCHMIDT	30	200+		GEORGE MELICK	67	OREGON	3:03.84
CRAIG MALLERY	30	R:OLYMPIC CLUB	92	HAROLD BEGEL	62	GILBERT YOUNG	70
HEARTLAND B	2:00.93	JAMES BEGLINGER		ROBERT KLAGES	61	FRED ECKHARDT	66
CHARLES HARTJE	33	ROBERT STRAND		SAN DIEGO SWIM	2:32.28	EARL WALTER	71
RON SCHAFER	34	STEVE CLARK		JOHN GOODE	58	FORBES MACK	73
RANDALL EICKHOFF	26	DONALD HILL		DONALD BAKER	61	PAC NORTHWEST	3:04.68
JOHN RAHM	35	OLYMPIC CLUB	2:00.25	GORDON GILLIN	61	JIM PENFIELD	84
SPM "A"	2:02.60	JAMES BEGLINGER	45	KENNETH KIMBALL	61	THOMAS TAYLOR	61
GEORFFRY A. GOOD	33	ROBERT STRAND	46	GISA	2:32.74	ROBERT DORSE	60
ARTHUR HALTTUNEN	42	STEVE CLARK	49	DOUGLAS CHURCH	48	ALLAN SACHS	79
WILLIAM L. SPECHT	34	DONALD HILL	60	DOUGLAS SCOTT	64	HLJ	3:06.11
TIM S. MC GINNIS	34	CONN	2:03.94	ROBERT BADGER	61	FRANK TILLOTSON	77
		JOHN PHILLIPS	45	ALBERT EBBINGHAUS	68	WILLIAM GRANT	78
160+		MANUEL SANGUILY	59	SPM "A"	2:34.84	CARL THORNBURG	79
R:HOLMES	90	MIKE LAUX	50	RALPH N. COXHEAD	63	KEVIN KELLY	49
JAMES DILLEY		JACK GEOGHEGAN	50	RAY S. BURNS	57	BOLT	3:11.48
C. MILTENBERGER		LOS ALTOS	2:05.46	PAUL HUTINGER	67	ROBERT WIEGAND	70
RICHARD ABRAHAMS		EDWARD CAZALET	50	HAROLD FERRIS	61	MIKE OFFNER	77
TIMOTHY GARTON		THOMAS BOAK JR.	49	LINC	2:36.76	RICHARD DANIEL	66
RMM	1:55.35	ROBERT PROEBSTING	55	DREN GEER	58	ELMER FROST	69
CHUCK WOLFF	40	DAVID GRAY	46	FRANK HAVLICEK	73	GISA	3:16.53
HOLDEN BANK	32	GOST	2:06.61	JOHN MASTERS	61	JOHN PATTEN	71
RICHARD ABRAHAMS	47	YOSHI OYAWAKA	58	DEWEY HOWELL	52	ROBERT RISLEY	65
KEVIN POLANSKY	42	JOE REINHARDT	31	HLJ	2:38.66	DOUGLAS STRONG	67
OLYMPIC CLUB	1:57.66	KEITH CARTER	67	JACK BEATTIE	57	JOHN MAXWELL	84
JAMES BEGLINGER	46	THOMAS TRIPP	50	GEORGE KOSKI	53	BLS	3:29.95
ROBERT STRAND	46	OREGON	2:08.22	ROGER HOLMES	70	TEX ROBERTSON	83
JOHN FOOTE JR.	41	ROBERT SMITH	49	ANDY SEARS	61	BENNETT ALLEN	78
JAMES ELDER	49	RICHARD BOYD	49	MULTNOMAH A.C.	2:39.74	JESSE COON	81
PAC NORTHWEST	1:58.93	BERT PETERSEN	53	JIM BIGLER	56	LARRY HART	80
GARY HAFER	41	GEORGE THAYER	56	LEE MIESEN	65		
RICK COLELLA	40	LINC	2:10.27	ROBERT KIM	58	320+	
STEPHEN FREEBORN	37	RICK SCHAKLE	36	CLARK AUSTEN	64	R:LONG BEACH	92 3:58.14
FRANK WARNER	43	BILL MILLIKEN	52	ROCKY MOUNTAIN	2:46.94	DON NEEFE	
GISA	1:59.52	RICHARD HANLEY	56	JACK TRUBY	68	JOHN GLENN	
ROGER JONES	44	SAM KOOISTRA	56	JOHN WRENN	71	WOODY BOWERSOCK	
RIC HOFSTETTER	35	GISA	2:11.60	SANFORD PLATTER	53	LIONEL PEREIRA	
WILLIAM VICKERY	38	MARTY MENNEN	55	GEORGE KENRY	57	LONG BEACH	3:58.14
JOE CONDON	45	BILL WOOD	50	PAC NORTHWEST	2:52.04	DON NEEFE	83
PAC NORTHWEST	2:00.93	JEFF COOKE	47	STEVEN THRASHER	50	JOHN GLENN	81
STEVE SUSSEX	37	CHARLES LEE	48	TOM FOLEY	58	WOODY BOWERSOCK	78
GREGORY HARRISON	40	GKMS	2:13.07	JIM SLOAN	54	LIONEL PEREIRA	82
ALAN BELL	42	WILL ARTLEY	37	GENE CROSSETT	78	*****	
RICHARD PETERSON	41	WANG LAU	55			RELAYS: M E N 400 M. FREE	
OREGON	2:01.25	CHIP HASTINGS	51	280+		*****	
JOHN ZELL	35	WILLIAM LAUER	57	R:OREGON	92	76 +	
ALLEN STARK	43	RMM	2:14.76	FLOYD ELIOTT	2:34.57	R:EMPIRE	92 4:11.98
MIKE PENDLETON	40	STEVE MANN	40	BOB MORRISON		SCOTT HIROSE	
VERN DASCH	43	FRED WENDELKEN	53	ANDREW HOLDEN		DAVID GUION	
RMM	2:01.31	JONATHAN MANN	32	GERALD HUESTIS		ALEXANDER HALL	
TOM WHATLEY	40	BEANS YAMAMOTO	75	OREGON	2:34.57	JACK MACKENROTH	
BILL ABBOTT	46	PALMETTO MASTER	2:15.38	FLOYD ELIOTT	65	EMPIRE	4:11.98
MICHAEL MANN	37	HUGH WILDER	45	BOB MORRISON	71	SCOTT HIROSE	26
PAUL MCCORMICK	45	JOE KURTZMAN	66	ANDREW HOLDEN	73	DAVID GUION	29
BLS	2:02.81	CHARLIE DUNAWAY	42	GERALD HUESTIS	72	ALEXANDER HALL	20
STEPHEN BOSTER	41	GEORGE FISETTE	50	LAM	2:34.77	JACK MACKENROTH	23
PETER MICHEL	49			JACK MCCANN	70		
DAVID HAGUE	38	240+		JOHN RICHARDS	70	100+	
TIM GLENN	36	R:LINCOLN	91	HUGH RICHARDS	71	R:WALNUT CREEK	92 3:45.83
HUSKY	2:04.38	GEORGE GANDSEY		JAY CRADDOCK	71	CHRIS BOND	
CASH O'DONNELL	43	BILL MULLIKEN		SPM	2:45.88	JIM MIDDLETON	
WILLIAM FENNER	36	PAUL HUTINGER		BILL MOLVIE	73	STEVE STAHL	
LARRY WRIGHT	43	SAM KOOISTRA		ABRASHA BRAININ	69	DAVE CADEMATORI	
JEFF GROSS	41	OLYMPIC CLUB	2:27.76	THOMAS SMITH	65	WALNUT CREEK	3:45.83
MM	2:04.38	JAMES BOHAN	56	KERMIT HOTVEDT	77	CHRIS BOND	26
RICHARD CHANEY	41	DONALD WUDTKE	57	GOST	2:57.91	JIM MIDDLETON	26
STEVE HANSEN	40	PHILIP CHAPMAN	61	CHARLES SALIE	80	STEVE STAHL	27
LAWRENCE DAY	41	FRANK GRANNIS	67	RUSS WITTE	75	DAVE CADEMATORI	26

TOP TEN

Long Course Meters

TNYA	3:52.97	BRIAN BOLSTER	29	D.UGARKOVICH	44	R:RINCONADA	91	5:43.78
RICK REYNOLDS	31	BRENT WASHBURNE	36	DAVID GRANGER	40	ALDO DA ROSA		
PATRICK RIORDAN	29	ALHAMBRA	4:11.79	HARRY STARK	35	JOE IRVINE		
MARK SCHOOFS	29	TYRONE BROWN	28	M.MONTGOMERY	46	ELI GOLDFARB		
BRUCE HAYES	29	JAMES GIBBS	22	PAC NORTHWEST	5:00.16	ED KERSWILL		
WALNUT CREEK	3:54.39	BILL DARBY	45	MATTHEW PALMER	37	RINCONADA	6:34.01	
JIM FAGEN	27	PAUL MARBLE	28	SCOTT LEWIS	42	ED BLACKLEDGE	76	
JOHN RING	31	WH20	4:12.39	ANDREW BERNARD	39	ELI GOLDFARB	67	
GREG REMMERT	29	RICHARD HUNTER	43	FRANK NEWQUIST	54	ALDO DA ROSA	74	
JERRY FERRIS	31	THOMAS WILSON	37			ED KERSWILL	66	
WH20	4:02.59	MATT KNIGHT	30	200+		*****		
JIM RHYNE	26	MAURO BORDOVSKY	35	R:OREGON	92	4:28.75	RELAYS: M E N 400 M. MEDLEY	
KURT MURDOCH	26	TNYA	4:13.92	BERT PETERSEN			*****	
PHILIP HAYMAN	30	CHRIS PACKARD	33	ROBERT SMITH			76 +	
MARK SPRATT	36	CHARLES CARSON	38	TOM FANNING			R:EMPIRE	92 4:40.23
DAVIS AQUATIC	4:10.19	CRAIG MALLERY	30	RICHARD BOYD			SCOTT HIROSE	
GREG JOHNSON	35	MARK QUIGLEY	33	OREGON	4:28.75		JACK MACKERROTH	
TODD BAILEY	22	WH20	4:21.35	ROBERT SMITH	49		ALEXANDER HALL	
TOM MCNAMARA	30	BRIAN MURPHY	43	TOM FANNING	52		MARK SCHOOFS	
MICHEAL COLLINS	26	T.SHOEMAKER	30	BERT PETERSEN	53		EMPIRE	4:40.23
PAC NORTHWEST	4:21.55	MIKE MCGINLEY	39	RICHARD BOYD	49		SCOTT HIROSE	26
ROBERT WELCHER	23	MARC BERENSON	30	OAHU CLUB	4:33.20		JACK MACKENROTH	23
PAUL SHERMAN	28			MIKE SHERRILL	42		ALEXANDER HALL	20
J.BORNHEIMER	29	160+		HAROLD SEXTON	77		MARK SCHOOFS	29
JEFF OLLIFFE	37	R:LOS ALTOS	89 4:03.69	JAMES KRUEGER	53			
BERKELEY AQ	4:37.82	BOB PROEBSTING		ROWDY GAINES	33	100+		
KEN FITCH	27	DICK THOMAS		SAN MATEO	4:43.96	R:SANTA BARBARA	88	4:18.93
RICH CALLAGHAN	30	ED CAZALET		BILL STEUART	55	A. GOLDSCHMIDT		
MARK HJELLE	22	TIM MAXIMOFF		DICK PETERSON	55	WILLIAM CORRIGAN		
BRAD MAGEE	26	HEARTLAND D	4:12.43	DON GALINE	46	MATTHEW LUM		
HEARTLAND A	4:44.61	JOHN RAHM	35	DON DALY	47	GREGORY BAXTER		
TODD ROYAL	26	LEE MENCH	39	WALNUT CREEK	5:03.12	HEARTLAND A	4:53.59	
STUART LONDON	25	JERRY O'MARA	45	HARRY DAVIS	51	MICHAEL TOLMAN	24	
STEVEN SAPPER	34	DOUGLAS SELBY	47	JACK LANCE	49	STEVE SOLOMON	36	
CLINTON MERRIMAN	21	WALNUT CREEK	4:14.28	JOHN FELDER	53	STUART LONDON	25	
		DAVID AHLMAN	41	STAN PEDDER	58	TODD ROYAL	26	
120+		CHRIS STEWART	40	HEARTLAND E	5:24.29	PAC NORTHWEST	4:59.58	
R:TEXAS SWIMAST	89 3:50.76	JOHN ROEMER	38	DAVID SZUCH	49	ROBERT WELCHER	23	
WENDELL SMITH		TOM HENDRY	45	BRUCE MENZIES	42	PAUL IKEDA	33	
LARRY WOOD		ROLLING HILLS	4:17.75	MICHAEL PHILLIPS	50	PAUL SHERMAN	28	
CHRIS WALKER		GEORGE VIGUE	48	EUGENE SAPPER	62	RICHARD BEEN	31	
SAM SEIPLE		ERIC VANBOER	37	SPM	5:38.02			
PAC NORTHWEST	3:56.41	BILL ADKISON	37	RAY S. BURNS	56	120+		
RICK PETERSON	40	P.BOISSEVAINE	42	HAROLD FERRIS	61	R:TEXAS SWIMAST	89	4:20.98
S.SCHUFREIDER	36	JERSEY MST	4:30.98	C.H. KOHNKEN	60	JOHN KRUMNOW		
STEVE SCHMIDT	30	TIM EBERSOLE	38	STEVEN D. GRAU	46	RICK ENRIGHT		
CRAIG MALLERY	30	JOSE LANDRUA	33	TAMALPAIS	5:47.41	SAM SEIPLE		
TNYA	4:02.63	ED NESSEL	47	DOUG STEVENS	49	LARRY WOOD		
DON SUMADA	31	RICHARD WALLACE	44	DORE SCHWAB	70	HEARTLAND B	4:26.90	
BUCK BROKER	36	ARIZONA MASTERS	4:32.07	GEORGE CUNNINGHAM	67	CHARLES HARTJE	33	
RICHARD HOOLEY	36	HOP BAILEY	45	HUGH WINN	50	RON SCHAFFER	34	
SCOTT CREIGHTON	36	ANDY BANKS	45			RANDALL EICKHOFF	26	
RINCONADA	4:08.34	TOM ALLEN	44	240+		JOHN RAHM	35	
KEN FATLAR	35	STEVE HAIGHT	33	R:RINCONADA	90	5:08.29	PAC NORTHWEST	4:30.39
TOM SCHOLER	38	DAVIS AQUATIC	4:42.09	JIM SHAW			J.BORNHEIMER	29
DON WILLIAMS	25	ROBERT NORRIS	54	ALDO DA ROSA			RICK PETERSON	40
KIRK KOSLOWSKI	34	RON HARVEY	46	ELI GOLDFARB			STEVE SCHMIDT	30
HEARTLAND B	4:10.52	JIM FRAMPTON	45	DICK BENNETT			CRAIG MALLERY	30
STEVE SOLOMON	36	ANDY MCPHERSON	45	SAN DIEGO SWIM	5:10.20		DAVIS AQUATIC	4:33.23
MICHAEL TOLMAN	24	TSUN	4:44.25	GORDON H GILLIN	61		GREG JOHNSON	35
MICHAEL SAPPER	35	RICK WINDES	37	BILL EARLEY	55		TOM MCNAMARA	30
RANDALL EICKHOFF	26	JOHNNY BONCK	42	DON BAKER	61		ANDY MCPHERSON	45
SANTA CLARA	4:10.84	KRIS NERGAARD	44	MILTON A SENS	66		MICHEAL COLLINS	26
BOB DUGAN	30	CRIS ALLEN	39	RINCONADA	5:24.17		WH20	4:34.84
MIKE MONSEES	44	CRESENT HILL	4:45.52	HANK HEINICHEN	70		JIM RHYNE	26
TONY SHERMAN	32	JOHN GRAHAM	46	AUGIE MOTMANS	64		MATT KNIGHT	30
HOWARD COYE	37	ROBERT MEANS	40	ED SCHANER	62		T.SHOEMAKER	30
SAN MATEO	4:10.99	DAN BEHR	47	BILL LORTON	49		MARK SPRATT	36
JOEL GILBERTS	29	NORMAN SCOTT	47				TNYA	4:40.24
ERICH RASIMUS	27	HEAT	4:45.95	280+			RICK REYNOLDS	31

TOP TEN

Long Course Meters

TAMMI KEELER	23	HLJ "A"	1:54.49	CATHY DROZDA		RICHARD BURNS	49
DEBBIE FALSGRAF	27	WALTER STEELE	28	JUDY REED		RMM	2:03.44
STEPHEN FREEBORN	37	LINDA S. NEARY	28	TOM WHATLEY		MARCY BULLOCK	49
MULTNOMAH A.C.	37.19	MARY H. ROEBUCK	30	RICHARD ABRAHAMS		KAREN HOGAN	38
GREG COOPER	24	JACK C. MC KEAN	27	RMM	1:47.46	BEANS YAMAMOTO	75
LISA ELLIOTT	20	USF	1:54.84	CATHY DROZDA	33	KEVIN POLANSKY	42
KATHLEEN BOYD	21	MICHELLE YOUNG	27	JUDY REED	48	SOUTH BAY WAVES	2:04.25
ALEX STILES	26	TODD ROBINSON	25	TOM WHATLEY	40	CAROLE SHIGAKI	37
CRAW	1:58.32	DIANA ABEVE	27	RICHARD ABRAHAMS	47	ROBERT SCOLES	71
NEIL HARPER	27	MATT JONES	26	O*H*I*O	1:56.65	MIMI FRANK	45
SUSAN HAGAN	32			LEE EISINGER	43	DAVE FRANK	48
KIMBERLY FARR	20	120+		JOANNE BOWSER	38	GISA	2:04.46
JEFF JANES	19	R:LONE STAR	87 1:44.84	ROBIN KALMAN	32	MARTY MENNEN	55
CRESENT HILL	1:59.74	L.MORRISON-CASEY		HARRY GREENFIELD	47	JEFF COOKE	47
JANE DUGAN	29	JACKIE HIRSTY		PAC NORTHWEST	1:59.21	SHARON WISE	45
DONNA JOHNSON	24	RICHARD HESS		PHYLLIS GILL	35	MARGIE HEINEMAN	55
THOMAS MESTER	41	JIM MONTGONERY		LYNN MARTINDELL	44	LINC	2:05.57
JEFFREY HOGG	27	RMM	1:47.38	DAVE HANNULA	38	RICHARD HANLEY	56
PAC NORTHWEST	2:02.13	KATHY GARNIER	32	FRANK WARNER	43	IRENE DAVID	48
JOHN POTTLE	34	SHARON LAHEY	33	DC MASTERS	1:59.94	BETTY BENNETT	49
KIMBERLEY HAY	24	HOLDEN BANK	32	JOSEPH WALTER	21	SAM KOOISTRA	56
KIM KAY	29	MICHAEL MANN	37	BARBARA FRID	50	GOST	2:07.11
JEFFREY PARADEE	32	OREGON	1:48.54	JAYNE BRUNER	58	THOMAS TRIPP	50
		MICHAEL REINHARD	33	MATTHEW KANZLER	35	ANN GUINS	38
100+		GRACIE GODDARD	32	MINN	2:00.15	BEVERLY MYERS	57
R:HOLMES	88 1:45.58	LEISSA MILLS	32	PETE MAGEE	54	YOSHI OYAWAKA	58
MARK SCHUMAN		ANDY SCHRAG	35	VICKY SANDBERG	35	HUMUHUMU	2:07.61
MARY HOLMES		WALNUT CREEK MA	1:48.76	JUDITH ERICKSON	27	PEGGI WIRTH	47
SAM SEIPLE		STEPHEN STAHL	27	JOHN ZIEGENHAGEN	45	STEVE RUDOLPH	49
TISH BUCHER		PATTY LANDERS	35	ARIZ	2:00.30	BRUCE CLARK	49
WALNUT CREEK	1:48.23	BETSY HENRY	33	BILL VOGLER	42	DIANE STOWELL	57
PAULA ROEMER	31	VERN ROGERS	31	JUDY GILLIES	44	EMPIRE STATE	2:08.14
TOM MONTOYA	25	RMM	1:51.40	JONELLE SCHMIDT	41	CHRISTINE ZIMMET	44
PAMELA BOSCOVICH	29	LAURI NICHOLS	32	SCOTT SHAKE	34	EVERETT SMETHURST	57
CHRIS BOND	25	AMY KNOTT	25	VMST	2:01.24	JAMES JOHNSEN	57
H2OUSTON SWIMS	1:50.31	JONATHAN MANN	32	L.BENNETT-WILLIAM	36	FRAN HARE	42
DAVID GUTHRIE	32	CHUCK WOLFF	40	JIM MILLER	41	CONN	2:09.01
JENNIFER STEVENS	23	GAKW	1:51.79	DAVID MALSBUY	31	JAMES BAYLES	40
SHERRI WELDON	22	F.WILLIAMSON	44	JOHNNIE DETRICK	56	CHRISTIE SLIMACK	44
RUSSELL KNEIPP	23	TARYN GAULIEN	26	HUMUHUMU	2:01.32	DOROTHY DONNELLY	70
UNIV SAM FRAN	1:50.37	RIC JOHNSON	36	JOHN ALLAN	48	JACK GEOGHEGAN	50
LORETTA SOFFE	25	IGOR VAZHENIN	28	RON HAGG	43		
DEAN PANZICA	30	BLS	1:52.26	PATRICIA KIMBALL	36	240+	
AMY ALEXANDER	27	JAMES MONTGOMERY	37	COLLEEN REID	42	R:LOS ALTOS	92 2:10.74
GREG MACKEM	24	JANN BUTLER	32	LAKESIDE	2:02.21	JOHN RICHARDS	
OREGON	1:51.18	VAL KERR-HAGUE	31	JEAN HENDERSON	45	JAY CRADDOCK	
MATHEW ROTH	25	RICHARD HESS	37	KIRK BUESE	32	DELLA SEHORN	
ANDY POTTER	21	O*H*I*O	1:52.56	A.WRIGHT-BELKNAP	41	LAURA VAL	
GRACIE GODDARD	32	LOU HORWITZ	39	JOHN NOLAN	43	LOS ALTOS	2:10.74
LEISSA MILLS	32	ERIN BORDEN	30	PALMETTO MASTER	2:03.20	JOHN RICHARDS	70
TEXAS AQUATICS	1:51.83	JENNIFER SMITH	25	JAN PESAVENTO	40	JAY CRADDOCK	71
DAVID VANDAM	36	KARL KAZMAIER	37	SUSAN BLATTNER	35	DELLA SEHORN	65
MARK STOHRER	30	1776	1:52.84	HUGH WILDER	45	LAURA VAL	40
DANA DUTCHER	24	STU MARVIN	36	GEORGE FISETTE	50	LOS ALTOS	2:15.67
ALICE HORN	26	ROBERT KROTEE	37			JACK MCCANN	70
SWIM WITH AEROB	1:51.99	STEPHANIE WALSH	42	200+		DELLA SEHORN	65
BRYAN AUSTIN	37	DEBORAH CAIN	35	R:LOS ALTOS	92 1:58.15	JAY CRADDOCK	71
JULIE MALCOLM	32	GISA	1:53.35	EDWARD CAZALET		CAROLYN BOAK	47
KARYN HEANEY	28	TRISCHA ZORN	28	CAROLYN BOAK		CONNECTICUT	2:16.66
ALBERT VAN DIJK	21	JULIE BOAZ	30	ARLENE PROEBSTING		LEN GOLDSTONE	63
WALNUT CREEK	1:52.40	RIC HOFSTETTER	35	ROBERT PROEBSTING		ROBERT KNAPP	75
GREG REMMERT	30	BOB WOOD	33	LOS ALTOS	1:58.15	DOROTHY DONNELLY	70
MICHELLE MCCLURE	24	WALNUT CREEK	1:53.74	EDWARD CAZALET	50	SARAH EICHER	36
JAMES FEGAN	28	CATHY COOLEY	34	CAROLYN BOAK	47	WALNUT CREEK	2:24.62
KIM CARLSON	29	JEFFREY RODGERS	26	ARLENE PROEBSTING	49	STAN MORNER	57
MULTNOMAH A.C.	1:52.67	CHARLENE O'BRIEN	35	ROBERT PROEBSTING	55	ANN PISCIOTTA	61
DIRK MARSHALL	29	GERALD FERRIS	31	TAMALPAIS AQUAT	1:59.15	BETTY BARABASH	64
JUDITH LAMPI	32			DOUGLAS STEVENS	49	DONALD BROWN	59
SANDI BAHLER	24	160+		SPERRY RADEMAKER	52	HUMM	2:25.74
JOHN KEPPELER	25	R:RMM	92 1:47.46	NANCY RIDOUT	50	PATRICIA KIMBALL	36

TOP TEN Long Course Meters

C.COSTELLO	69	SPM	3:05.14	CAROL CLARK	25	WALNUT CREEK	2:02.39
PETE OKUMOTO	76	BILL MOLVIE	73			GERALD FERRIS	31
MORRIS MATHEWS	65	WIN KENNEDY	79	100+		STEPHEN STAHL	27
SLM	2:28.36	KAY SCHIMPF	75	R:HOUSTONIAN CLUB90	1:56.50	DEBBIE FLANSBURG	36
ARDETH MUELLER	51	KERMIT HOTVEDT	77	CLAY BRITT		PAULA ROEMER	31
CHERYL CORBETT	60	WALNUT CREEK	3:08.90	L WETZEL-OSBORNE		OREGON	2:04.04
ART KELLEY	66	HAROLD PERRY	81	STUART KNOWLES		CURT LACOUNT	33
ROBERT BLAKE	67	MARY JANE REEVES	75	REBECCA WETZEL		ANDY SCHRAG	35
SMS "A"	2:29.40	JEAN DURSTON	78	H2OUSTON SWIMS	2:00.69	GRACIE GODDARD	32
BALINT PAPP	70	JAMES SLAUGHTER	47	JENNIFER STEVENS	23	LEISSA MILLS	32
BARDY J. DENDY	71	HLJ	3:09.03	DAVID GUTHRIE	32	O*H*I*O	2:06.44
ROBERT G. COULTER	59	JACK BEATTIE	57	RUSSELL KNEIPP	23	ERIN BORDEN	30
DEBROAH W. WALKER	41	RACHEL ERWIN	72	SHERRI WELDON	22	CRAIG DALLAM	34
SPM "A"	2:29.81	FRANK TILLOTSON	77	UNIV SAN FRAN	2:02.12	JENNIFER UEBELE	27
PAUL HUTINGER	67	VICKEE SULLIVAN	75	JILL ROTHKOPF	25	HARRY GREENFIELD	47
J.G. PIPER	55			LORETTA SOFFE	25	LAKESIDE MASTER	2:06.54
KATE KNIGHT-PERRY	57	320+		CHRIS WATERS	30	WILLIAM TINGLEY	42
HAROLD FERRIS	61	R:PAC NORTHWEST	92 3:46.53	DEAN PANZICA	30	A.WRIGHT-BELKNAP	41
MACO	2:33.47	LEE HOLM		WALNUT CREEK	2:03.44	SUSAN AUGUSTUS	25
JIM BIGLER	56	MARION MUELLER		PAMELA BOSCOVICH	29	RUSSELL WILLIAMS	32
CLARK AUSTIN	64	JIM PENFIELD		CATHY COOLEY	34	RMM	2:06.72
LAVELLE STAINOFF	59	ALLAN SACHS		JAMES FEGAN	28	MICHAEL MANN	37
JOYCE BAHLER	62	PAC NORTHWEST	3:46.53	TOM MONTOYA	25	JONATHAN MANN	32
GISA	2:37.00	LEE HOLM	77	HLJ "A"	2:08.34	LAURI NICHOLS	32
JOHN DILLEY	71	MARION MUELLER	80	WALTER STEELE	28	KATHY GARNIER	32
KATHY HOFSTETTER	36	JIM PENFIELD	84	MARY H. ROEBUCK	30	WEST HOLLYWOOD	2:07.34
JOHN PATTEN	71	ALLAN SACHS	79	LINDA S. NEARY	28	ANDREA DEVUONO	30
SHIRLEY SCOTT	63	*****		JACK C. MC KEAN	27	PAULO FIGUEIREDO	46
		RELAYS: MIXED 200 M. MEDLEY		OREGON	2:08.86	ROBERT FUENTES	28
		*****		MATHEW ROTH	25	MORRI SPANG	35
280+		76 +		ANDY POTTER	21	WALNUT CREEK	2:08.21
R:OREGON	92 2:31.29	R:UNIV SAN FRAN	92 2:02.31	DEBORAH HEIM	23	PATTY LANDERS	35
GERALD HUESTIS		GARY YANG		GRACIE GODDARD	32	KEVIN WARD	35
ANDREW HOLDEN		JANET HAUER		SAN DIEGO SWIM	2:13.65	GREG REMMERT	30
PETEY SMITH		GREG MACKEM		CATHY NEVILLE	35	MICHELLE MCCLURE	24
PAULINE STANGEL		CYNTHIA HINSHAW		LUKE SALERNO	25	PAC NORTHWEST	2:09.12
OREGON	2:31.29	UNIV SAN FRAN	2:02.31	CHRIS DIXON	34	CAROLYN ACKERLEY	26
GERALD HUESTIS	72	GARY YANG	23	GINI BURNS	41	TIMOTHY KLUG	24
ANDREW HOLDEN	73	JANET HAUER	24	PAC NORTHWEST	2:14.82	FRED LEATHERMAN	45
PETEY SMITH	68	GREG MACKEM	24	DAVE HANNULA	38	KRISTIN WILLIAMS	26
PAULINE STANGEL	70	CYNTHIA HINSHAW	22	JOHN POTTLE	34	HUSKY	2:10.10
HLJ	2:40.43	UNIV SAN FRAN	2:02.35	KIMBERLEY HAY	24	MARGARET LLOYD	31
ROGER HOLMES	70	ANDREW GELLER	24	KATHLEEN PETERSON	24	WILLIAM FENNER	36
FLORENCE CARR	66	JOHN HARLOW	24	AIR FORCE AQUAT	2:15.37	LARRY WRIGHT	43
WILLIAM GRANT	78	NATALIE EFFA	24	SAM CHESTNUT	22	TAMI BENNETT	35
MARJORIE NEWMAN	68	BRENDA WICKLUND	23	DAVE LAZERSON	29		
PAC NORTHWEST	2:48.37	PAC NORTHWEST	2:04.57	KAREN BURTON	30	160+	
MURIEL FLYNN	69	MARK LIST	36	KELLY LAZERSON	30	R:SPM	92 2:02.86
BETTY KERCHEVAL	67	DANIEL BALDERSON	25	OREGON	2:15.40	JUDY STEFANICK	
GENE CROSSETT	78	YURIKO SATO	23	TONI HECKSEL	26	ARTHUR HALTTUNEN	
WARREN KLEIST	70	DEBBIE FALSGRAF	27	LINDA FINLEY	27	WILLIAM SPECHT	
SAN MATEO	2:53.26	MULTNOMAH A.C.	2:08.21	MARK NELSON	32	ANNE PAGE	
AUDREY ETIENNE	75	JOHN KEPPELER	25	CHRISTOPHER LUCK	29	SPM	2:02.86
HELEN ROUMASSET	77	GREG COOPER	24	WALNUT CREEK	2:15.77	JUDY STEFANICK	41
BILL STEUART	55	LISA ELLIOTT	20	KIM CARLSON	29	ARTHUR HALTTUNEN	42
EDWARD MORAN	74	KATHLEEN BOYD	21	KATHY BROWN	32	WILLIAM SPECHT	34
LONG BEACH	2:57.37	CRAW	2:09.29	JEFFREY RODGERS	26	ANNE PAGE	44
BRION WINSHIP	74	NEIL HARPER	27	VERN ROGERS	31	RMM	2:04.92
MAURINE KORNFELD	70	PAIGE HARPER	26			CATHY DROZDA	33
MAXINE MERLINO	80	CHIP CASTAGNOS	23			HOLDEN BANK	32
WILLIAM PROTEAU	71	KIMBERLY FARR	20			RICHARD ABRAHAMS	47
HUMUHUMU	2:58.91	CRESENT HILL	2:18.40			JUDY REED	48
AILEEN SOULE	85	JANE DUGAN	29			GISA	2:06.94
BETH BLICKFELDT	65	DONNA JOHNSON	24			MARYANN STEVENS	39
MORRIS MATHEWS	64	THOMAS MESTER	41			RIC HOFSTETTER	35
PETE OKUMOTO	75	JEFFREY HOGG	27			JOE CONDON	45
O*H*I*O	3:01.68	CRAW	2:27.50			SHARON WISE	45
PAUL KRUP	74	ROBERT BEGG	23			PAC NORTHWEST	2:08.07
MARY CULHANE	70	AMBER DANSKY	20			ZENA HERRMANN	33
SYLVIA HILL	70	SAM STREETER	30			RICK COLELLA	40
ANTON CERER	75						

TOP TEN Long Course Meters

ERIC UMBARGER	37	UNIV SAN FRAN	5:57.79	FRANK PETUYA	59	C.CHICHESTER	29
ERIN CHILDS	34	MICHAEL EPLING	41	GEORGE CUNNINGHAM	67	TOM MCNAMARA	30
MARK SPRATT	36	C. LORRIE EPLING	41	C.CUNNINGHAM	66	ANDY MCPHERSON	45
RINCONADA	4:43.79	MARTHA CAMPBELL	43	ANGELA KONIG	54	KIM MCCORD	31
DON WILLIAMS	25	MICHAEL MOORE	42	HEARTLAND C	7:32.81	MINNESOTA	5:15.31
REBECCA PINTO	37	GREAT OHIO SWIM	6:02.33	EUGENE GORROW	66	WAYDE MULHERN	33
JUDITH SCHWARTZ	37	THOMAS MOYER	44	RUDOLPH SAPPER	59	JUDI ERICKSON	27
CHRIS SLOCUM	26	P.STRICKLAND	51	ELFRIEDE LEHTO	59	SCOTT SAKAGUCHI	39
ALHAMBRA	4:47.02	FREDERICKA RAPP	48	JUDY TILARO	57	K.PARKINSON	28
ELAINE FONG	34	DONALD KROEGER	48			WALNUT CREEK	5:15.52
KERRI NAUFUL	35			280+		STEVE BREITER	36
PIERRE SMITH	37	200+		R:SAN MATEO	89 6:08.62	SUSAN WISTI	36
FABIO ASTUDILLO	39	R:LINCOLN	90 4:56.69	AUDREY ETIENNE		DEBBIE FLANSBURG	36
AIR FORCE	4:50.65	BETTY BENNETT		RAY TAFT		BRETT MCDONALD	26
ANNA PLANTIER	29	IRENE DAVID		ZADA TAFT		PALM SPRINGS	5:26.69
LEAANN HERMSEN	33	BILL MULLIKEN		FRED TAIOLI		JAMES LORIMER	23
LARRY JONES	39	PAUL HUTINGER		CONNECTICUT	6:30.34	LORI WESTRA	25
KIRK CLEAR	24	RINCONADA	5:14.37	NANCY PHILLIPS	70	CHRISTINE HAUGHEY	44
DAVIS AQUATIC	5:05.00	SUE SPRINGER	53	ROGER CHAMBERLAIN	75	BRUCE MUSASHI	33
TINA WALLIS	22	CAROL REMEN	53	WAYNE SHADBOLT	67	DAVIS AQUATIC	5:30.71
JENNIFER BLAKE	23	ED KERSWILL	66	DOROTHY DONNELLY	70	MELISSA BEATY	34
JIM FRAMPTON	45	CHARLES CONE	30	WALNUT CREEK	7:29.09	JIM FRAMPTON	46
GREG JOHNSON	35	SAN DIEGO SMIM	5:46.91	ERNIE SMITH	71	CHRISTINE WINN	26
OJAI	5:10.92	DON HUBBARD	65	BILL JOHNSTON	74	RON HARVEY	46
QUANAH RIDENOUR	22	GINI BURNS	41	MARY JANE REEVES	75	EL CAMINO	5:35.17
RICK GOEDEN	45	LEE MENCH	39	SALLY JOY	75	MICHAEL MORSER	27
MIMI FAY	34	DONALD BAKER	61	*****		MELISSA HANSON	39
MIA EMHARDT	31	WALNUT CREEK	6:05.80	RELAYS: MIXED 400 M. MEDLEY		MELANIE THOMPSON	28
INDUSTRY HILLS	5:20.39	MIKE MILLIMAN	57	*****		JOSEPH WAGNER	32
W.R. MOSEID	59	DONNA MONROE	58	76 +		BERKELEY AQ	5:54.21
DEBORAH MEBEL	28	SALLY MORNER	57	R:UNIV SAN FRAN	91 4:36.72	FRAN HIGGINBOTHAM	32
PAUL PARAMO	30	MIKE SULLIVAN	48	CYNTHIA HINSHAW		DAVID SICONOLFI	41
CAROLINE COOPER	23	OJAI	6:11.71	JOHN DEARBORN		JUDY LEE	42
		KARL BURGER	44	DEAN PANZICA		PETER MccOY	41
160+		ROBERT MAY	58	JANET HAUER		TEMESCAL	6:01.87
R:SAN DIEGO	91 4:26.33	JAN RAINS	58	DAVIS AQUATIC	5:06.11	CONNIE RYDBERG	26
M. STINCHCOMBE		MALCHIA OLSHAN	61	BETH SKOREY	20	DEAN TILLES	29
BARBARA DUNBAR		O*H*I*O MASTERS	6:11.93	MICHEAL COLLINS	26	THEA VAUGHAN	30
BETH KNIGHT		DOUG BROGAN	60	JENNIFER NORRIS	25	GREGORY KIRKLAND	40
DONALD BAKER		MAUREEN KOSS	49	TODD BAILEY	22	UNIV SAN FRAN	6:08.63
TAMALPAIS	4:40.02	DORIS LOCKER	48			TAKKAO HENSCH	25
RICH BURNS	49	JULIO APONTE	47	100+		MARTHA CAMPBELL	42
NANCY RIDOUT	50	HEARTLAND B	7:20.87	R:WALNUT CREEK	90 4:36.14	LORRIE EPLING	41
SUZANNE HEIM	34	RON WILLIAMSON	53	PAM BOSCOVICH		MICHAEL MOORE	42
GARY PARLAPIANO	45	MOZE MOSSAY	38	JON JAQUES			
WALNUT CREEK	5:06.85	CECILY MC NEIL	47	KERRY O'BRIEN		160+	
JACK LANCE	49	ANN MARTIN	63	PAULA ROEMER		R:SAN DIEGO	91 4:55.94
JEFF BENNETT	39			WALNUT CREEK	4:46.61	BETSY JORDAN	
SUSAN WISTI	36	240+		PAM BOSCOVICH	29	RONALD MARCIKIC	
DEBBIE FLANSBURG	36	R:OREGON	89 5:28.68	JON JAQUES	30	M. STINCHCOMBE	
DAVIS AQUATIC	5:14.70	PETEY SMITH		JERRY FERRIS	31	BETH KNIGHT	
ROBERT NORRIS	54	GIL YOUNG		WENDY INGRAHAM	28	GOLD COAST	5:22.63
BETTY DUGAN	51	EARL WALTER		ALHAMBRA	5:21.11	JANET ZANN	42
CHRISTINE WINN	26	BARBARA FRID		TYRONE BROWN	28	CAROL DUNNE	44
RON HARVEY	46	RINCONADA	5:47.19	WENDY STONESIFER	33	SCOTT COLEMAN	38
WEST HOLLYWOOD	5:24.61	BOBBIE CALLISON	59	PAUL MARBLE	28	PAT HOWE	45
RICHARD HUNTER	43	KATHERINE BASS	40	JENNIFER SMITH	26	ROLLING HILLS	5:36.29
PAULO FIGUEIREDO	46	HANK HEINICHEN	70			MAGGIE TEVIS	44
ARIEL LEVIN	41	ALDO DA ROSA	74	120+		COKIE LEPINSKI	33
MARY FULLENWIDER	47	WALNUT CREEK	5:56.22	R:RINCONADA	92 4:40.74	BILL ADKISON	36
SPM "A"	5:33.20	DON BROWN	59	KEN FATLAR		GEORGE VIGUE	48
C.T. SWANSON	29	BETTY BARABASH	64	TERRI BAXTER		WEST HOLLYWOOD	5:38.91
BETTY A. LINCK	27	BETTY MCMILLIAN	63	KIRK KOSLOWSKI		KATHY CONTE	45
C.H. KOHNKEN	60	STAN MORNER	57	KIM ELSBACH		TOM MC CLAY	47
RAY S. BURNS	56	RINCONADA	6:19.91	RINCONADA	4:40.74	ERIC UMBARGER	37
SPM "B"	5:57.65	NANETTE STRINGER	40	KEN FATLAR	35	BARBARA JOSEPH	41
MARY E. BARKER	42	PATSY WEISS	69	TERRI BAXTER	27	GOLD COAST	5:49.08
STEVEN D. GRAU	46	C.FAIRCHILDS	67	KIRK KOSLOWSKI	34	RANDY NUTT	33
COLLEEN M. EGAN	39	ELI GOLDFARB	67	KIM ELSBACH	29	KATHY SHARP	33
HAROLD FERRIS	61	TAMALPAIS	7:07.50	DAVIS AQUATIC	4:45.44	SHERWIN DROBNER	59

TOP TEN Long Course Meters

ANITA ALLEN	38	R:WALNUT CREEK	92	6:07.19	LISA MCDAVID	HEARTLAND B	14:28.23	
DAVIS AQUATIC	6:17.29	DON BROWN			MARGUERITE MEYER	DAVID SZUCH	49	
ROBERT NORRIS	53	ANN PISCIOTTA			JON MELTON	MOZE MOSSAY	38	
ROSWITA NORRIS	48	STAN MORNER			NO RELAY TEAMS	MARILYN RAMEY	52	
CHAZZ HESSELEIN	34	BETTY BARABASH				ANN MARTIN	63	
BETTY DUGAN	51	WALNUT CREEK	6:07.19	120+		HEARTLAND S A M	15:36.21	
OJAI	6:37.36	DON BROWN	59	R:WALNUT CREEK	90	9:16.50	MARK D'AMICO	24
CAROLE BORLAND	49	ANN PISCIOTTA	61	JOHN ROEMER			RUDOLPH D SAPPER	59
HARRY DELATRE	45	STAN MORNER	57	DEBBIE BARBER			ANN J MARTIN	62
JONATHAN CHASE	34	BETTY BARABASH	64	KERRY O'BRIEN			NANCY L REED	64
DONNA LECHMAN	34	SAN DIEGO SWIM	6:16.00	WENDY INGRAHAN				
JERSEY MST	6:46.54	DIANA M SILVA	70	MINNESOTA	10:10.83	240+		
DORIS STEADMAN	67	DON BAKER	61	WAYDE MULHERN	33	R:LOS ALTOS	89	12:21.32
JOSE LANDRUA	33	BARBARA G DUNBAR	43	K.PARKINSON	28	BOB PROEBSTING		
ED NESSEL	47	MILTON A SENS	66	SARAH HROMADA	31	DELLA SEHORN		
N.STEADMAN-MARTIN	38	RINCONADA	6:32.60	PAUL WINDRATH	38	BERNA BENNETT		
GREAT OHIO SWIM	7:15.32	ELI GOLDFARB	67	WEST HOLLYWOOD	10:18.10	JACK MCCANN		
THOMAS MOYER	44	AUGIE MOTMANS	64	ANDREA DEVIJONO	30	HEARTLAND A	17:07.94	
P.STRICKLAND	51	BOBBIE CALLISON	59	ERIN CHILDS	34	EUGENE GORROW	66	
FREDERICKA RAPP	48	CAROL REMEN	53	ERIC UMBARGER	37	EUGENE SAPPER	62	
DONALD KROEGER	48			MARK SPRATT	36	ELFRIEDE LEHTO	59	
		280+		ALHAMBRA	10:42.84	JUDY TILARO	57	
200+		R:RINCONADA	92	7:18.33	WENDY STONESIFER	33		
R:OREGON	88	PATSY WEISS			KERRI NAUFUL	35	280+	
BARBARA FRID	5:32.10	ALDO DA ROSA			TYRONE BROWN	28	R:SAN MATEO	89
GINGER PIERSON		SALLY SCHOLER			PAUL MARBLE	28	AUDREY ETIENNE	14:26.78
BERT PETERSEN		HANK HEINEKEN			DAVIS AQUATIC	10:43.90	FRED TAIOLI	
HUGH RICHARDS		RINCONADA	7:18.33		C.CHICHESTER	29	ZADA TAFT	
SAN DIEGO A	5:46.01	PATSY WEISS	69		KIM MCCORD	31	RAY TAFT	
GINI BURNS	41	ALDO DA ROSA	74		MELISSA BEATY	34	NO RELAY TEAMS	
DONALD BAKER	61	SALLY SCHOLER	68		BETTY DUGAN	51		
JEANNE LITTLE	55	HANK HEINICHEN	70		HEARTLAND C	12:28.84		
KENNETH KIMBALL	61	WALNUT CREEK	9:14.41		STEVE SOLOMON	36		
OJAI	5:56.67	FRIEDA SIDORSKY	76		CESAR ROMERO	31		
RICK GOEDEN	45	SALLY JOY	75		VIRGINIA BENDIK	39		
HARRY DELATRE	45	BILL JOHNSTON	74		TINA DANIELS	35		
MALCHIA OLSHAN	61	ERNIE SMITH	71					
RUTH FARNHAM	62	LONG BEACH MAST	9:22.95		160+			
TAMALPAIS	6:00.51	BRION WINSHIP	74		R:SAN DIEGO	91	9:32.88	
ANGELA KONIG	53	JOHN GLENN	81		CAMILLE THOMPSON			
RUTH WINN	49	MAXINE MERLINO	80		BARBARA DUNBAR			
BEN WRIGHT	49	MAURINE KORNFELD	70		DARRELL SWENSON			
HUGH WINN	50	ARIZONA MASTERS	9:37.89		WILLIAM BEHUN			
RINCONADA	6:17.46	ROSE SEWARD	74		HEARTLAND S A M	11:48.41		
KATHERINE BASS	40	JERRY EVERALL	77		JERRY M O'MARA	45		
CINDY SWENSON	33	RUTH MANFREDI	68		DOUGLAS W SELBY	46		
ED SCHANER	62	JACK SPIKES	68		MARILYN A RAMEY	51		
ED KERSWILL	66	GOLD COAST	11:06.81		REBECCA M JACKMAN	28		
WALNUT CREEK	6:26.83	MURIEL BERGMAN	74		INDUSTRY HILLS	12:36.06		
FRANK PISCIOTTA	60	IRMA JANSEN	64		PAUL HO	52		
CAROL LAIRD	50	RICHARD KANE	81		BERNARD TOWNSEND	39		
MIKE MCGOWAN	40	BERNIE BERGMAN	75		LOIS GOODMAN	45		
DONNA MONROE	58	*****			KATHERINE WATSON	44		
O*H*I*O MASTERS	7:33.51	RELAYS: MIXED 800 M. FREE			GREAT OHIO SWIM	12:57.08		
DOUG BROGAN	60	*****			P.STRICKLAND	51		
MAUREEN KOSS	49	76 +			FREDERICKA RAPP	48		
DORIS LOCKER	48	R:SANTA CRUZ	89	10:05.52	SID HALL	56		
JULIO APONTE	47	BOB SEIWERT			THOMAS MOYER	44		
TAMALPAIS	7:34.89	LEA WATKINS						
C.CUNNINGHAM	66	CATHY CONOVER			200+			
DOUG STEVENS	49	JIM HUDSON			R:MULNOMAH ATH	89	11:10.75	
NANCY RIDOUT	50	DAVIS AQUATIC	10:56.38		LAVELLE STOINOFF			
DORE SCHWAB	70	CHRISTINE WINN	26		MARJORIE MEEK			
HEARTLAND A	8:16.03	JENNIFER BLAKE	23		ROBERT KIM			
JUDY TILARO	57	JENNIFER NORRIS	25		JIM BIGLER			
RUDOLPH SAPPER	59	TINA WALLIS	22		O*H*I*O MASTERS	13:43.28		
RON WILLIAMSON	53				JULIO APONTE	47		
CECILY MC NEIL	47	100+			MAUREEN KOSS	49		
		R:SANTA CRUZ	89	9:17.66	DORIS LOCKER	48		
		MIKE BENNETT			DOUG BROGAN	60		

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-92)

WRL LCM RECORDS AS OF 11-01-92

***** M E N *****			***** W O M E N *****		
Time	Date	Country	Time	Date	Country
22.59	08-28-83	USA	26.68	08-18-91	USA
51.25	08-14-81	USA	58.23	08-18-91	USA
1:52.17	08-23-92	USA	2:07.11	07-30-89	USA
4:06.99	- -88	BRA	4:27.53	07-30-89	USA
8:36.83	08-23-92	USA	9:18.43	07-30-89	USA
16:28.69	08-08-87	USA	17:38.78	08-28-88	USA
27.39	- -86	BRA	30.80	08-20-89	USA
58.24	08-23-92	USA	1:06.46	- -89	NZL
2:07.57	08-23-92	USA	2:19.97	08-20-89	USA
29.88	- -86	USA	32.01	- -89	ITL
1:04.60	07-30-89	USA	1:16.05	- -90	ITL
2:26.73	- -87	GER	2:42.02	- -90	ENG
25.16	-83-84	USA	28.79	08-24-87	USA
56.34	04-28-84	USA	1:03.91	08-24-87	USA
2:05.25	- -84	CZEC	2:18.69	- -92	AUST
2:09.21	08-08-87	USA	2:22.00	- -90	ENG
4:34.08	08-09-87	USA	5:05.29	- -90	ENG
***** M E N *****			***** W O M E N *****		
Time	Date	Country	Time	Date	Country
23.21	11-24-90	USA	26.37	08-28-88	USA
51.50	07-14-91	USA	58.09	10-15-88	USA
1:54.04	07-13-90	USA	2:07.84	08-20-89	USA
4:08.70	07-16-86	USA	4:30.38	08-25-91	USA
8:46.99	07-16-86	USA	9:16.82	07-05-92	CAN
16:42.28	08-18-91	USA	17:40.50	08-23-92	USA
27.32	10-15-88	USA	32.11	10-15-88	USA
1:00.19	07-05-92	USA	1:09.07	07-26-92	USA
2:11.77	08-24-87	USA	2:26.99	08-23-92	USA
29.42	07-05-92	USA	34.56	- -88	ENG
1:05.65	08-18-91	USA	1:14.52	- -88	ENG
2:24.06	08-18-91	USA	2:48.41	- -89	GER
25.31	10-15-88	USA	29.22	07-05-92	USA
56.64	10-15-88	USA	1:06.08	07-05-92	USA
2:07.71	08-09-87	USA	2:27.54	08-23-92	USA
2:09.69	08-18-91	USA	2:29.22	08-28-88	USA
4:40.44	07-05-92	USA	5:11.39	08-23-92	USA
***** M E N *****			***** W O M E N *****		
Time	Date	Country	Time	Date	Country
24.56	07-05-92	RUS	27.38	08-09-90	USA
54.28	07-05-92	USA	1:00.25	08-28-88	USA
1:57.95	07-05-92	USA	2:09.33	08-28-88	USA
4:15.49	07-05-92	USA	4:33.08	08-28-88	USA
8:52.22	07-05-92	USA	9:24.54	08-28-88	USA
17:26.29	08-20-89	USA	18:12.11	08-24-87	USA
28.04	08-26-78	USA	32.39	07-22-90	USA
1:01.60	- -90	AUST	1:10.94	07-30-89	USA
2:13.83	07-29-90	USA	2:35.44	07-05-92	USA
30.79	07-05-92	USA	34.41	08-20-89	USA
1:07.90	07-05-92	USA	1:17.44	08-20-90	USA
2:33.05	07-05-92	USA	2:53.64	08-02-92	USA
26.35	06-07-87	USA	29.27	08-28-88	USA
58.08	07-05-92	USA	1:05.39	08-28-88	USA
2:09.18	07-05-92	USA	2:26.38	07-30-89	USA
2:16.49	07-05-92	USA	2:37.26	- -88	CAN
4:55.13	07-05-92	USA	5:34.47	07-05-92	USA
***** M E N *****			***** W O M E N *****		
Time	Date	Country	Time	Date	Country
25.25	- -83	USA	28.05	08-23-92	USA
56.01	-7-05-92	SA	1:02.99	07-26-92	USA
2:04.82	08-20-90	USA	2:21.09	08-18-91	USA
4:26.60	08-20-90	USA	4:54.49	07-15-90	USA
9:19.37	08-20-90	USA	10:07.92	06-29-91	USA
17:30.13	08-20-90	USA	19:00.40	08-30-92	USA
29.38	08-12-90	USA	32.42	08-23-92	USA
1:03.39	08-11-90	USA	1:11.03	08-23-92	USA
2:18.17	08-12-90	USA	2:45.63	07-05-92	USA
30.82	07-05-92	USA	37.02	08-23-92	USA
1:09.95	07-05-92	USA	1:21.73	08-18-91	USA
2:32.17	08-23-92	USA	3:01.46	06-30-91	USA
27.04	08-18-91	USA	30.13	08-23-92	USA
1:02.05	08-29-80	USA	1:06.27	08-23-92	USA
2:23.05	10-15-88	USA	2:33.51	08-06-89	USA
2:18.92	08-23-92	USA	2:43.49	08-12-90	USA
4:57.46	08-23-92	USA	5:45.58	07-28-91	USA

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-92)

***** 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
30.67	08-28-88	USA	RICH BURNS	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	ENG	07-05-92	2:50.27
32.76	07-14-91	USA	RICK NESBIT	50	M.	BRST	J MACLEOD	AUST	- -91	37.77
1:12.98	07-05-92	USA	ROBERT STRAND	100	M.	BRST	CAROLYN BOAK	USA	08-23-92	1:26.28
2:42.29	08-23-92	USA	ROBERT STRAND	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
2:29.95	07-26-92	USA	ANDREW MCPHERSON	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	07-05-92	30.04
59.25	08-28-83	USA	DON HILL	100	M.	FREE	ARDETH MUELLER	USA	07-05-92	1:07.42
2:14.39	10-15-88	USA	ED HINSHAW	200	M.	FREE	ARDETH MUELLER	USA	08-18-91	2:32.25
4:50.97	08-23-92	USA	EDWARD CAZALET	400	M.	FREE	ARDETH MUELLER	USA	08-18-91	5:16.62
10:04.60	07-26-92	USA	ED CAZALET	800	M.	FREE	ARDETH MUELLER	USA	08-18-91	10:58.47
19:28.41	08-12-85	USA	BURWELL JONES	1500	M.	FREE	ARDETH MUELLER	USA	07-28-91	21:02.46
30.93	10-15-88	USA	JOHN SMITH	50	M.	BACK	MARGARET WILDING	ENG	06-07-92	37.18
1:10.14	10-15-88	USA	JOHN SMITH	100	M.	BACK	MARGARET WILDING	ENG	06-07-92	1:21.01
2:35.44	08-12-85	USA	BURWELL JONES	200	M.	BACK	BETSY JORDAN	USA	08-24-87	3:01.07
33.38	- -86	JPN	H. 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	AUST	M. MOLONEY	200	M.	BRST	F. CONNOLLY	SCOT	- -86	3:14.70
28.63	08-08-90	USA	MICHAEL MEALIFFE	50	M.	FLY	ARDETH MUELLER	USA	08-18-91	32.76
1:07.04	08-08-90	USA	MICHAEL MEALIFFE	100	M.	FLY	ARDETH MUELLER	USA	08-18-91	1:15.47
2:33.79	08-28-83	USA	BILL YORZYK	200	M.	FLY	ARDETH MUELLER	USA	08-18-91	2:49.53
				100	M.	I.M.				
2:34.67	08-20-89	USA	DRURY GALLAGHER	200	M.	I.M.	ARDETH MUELLER	USA	07-21-91	2:54.57
5:29.95	07-26-92	USA	EDWARD CAZALET	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 MUCKLERROY	50	M.	FREE	JAYNE BRUNER	USA	08-04-91	32.59
1:01.95	08-18-91	USA	BOB BAILIE	100	M.	FREE	JAYNE BRUNER	USA	08-20-89	1:12.34
2:21.33	07-05-92	JPN	KAZUYA NISHINO	200	M.	FREE	LAVELLE STOINOFF	USA	07-31-88	2:42.04
4:58.41	06-25-88	USA	BURWELL JONES	400	M.	FREE	LAVELLE STOINOFF	USA	08-14-88	5:36.66
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
33.58	- -91	JPN	H. 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	ENG	THOMAS WALKER	200	M.	BRST	F CONNOLLY	SCOT	- -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
2:48.98	08-23-92	USA	ROBERT PROEBSTING	200	M.	FLY	F CONNOLLY	SCOT	- -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	ENG	07-05-92	33.60
1:02.80	07-05-92	USA	DONALD HILL	100	M.	FREE	JANE ASHER	ENG	- -91	1:14.25
2:23.11	07-05-92	USA	DONALD HILL	200	M.	FREE	CLARA WALKER	USA	08-28-88	2:50.03
5:09.21	07-05-92	USA	GRAHAM JOHNSTON	400	M.	FREE	CLARA WALKER	USA	08-28-88	6:02.28
10:36.09	08-18-91	USA	GRAHAM JOHNSTON	800	M.	FREE	CLARA WALKER	USA	08-28-88	12:19.35
20:06.80	07-14-91	USA	GRAHAM JOHNSTON	1500	M.	FREE	HELEN EVANS	AUS	07-18-92	23:45.76
34.39	- -91	BRA	I. DA FONSECA	50	M.	BACK	DORIS STEADMAN	USA	08-20-89	40.35
1:16.38	07-05-92	HUN	IMRE NYEKI	100	M.	BACK	GRETHE BENDTSEN	DEN	07-05-92	1:30.22
2:49.36	07-05-92	HUN	IMRE NYEKI	200	M.	BACK	DORIS STEADMAN	USA	08-20-89	3:15.92
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	EDITH BOEHM	GER	- -88	1:38.72
3:08.59	- -91	USA	JOHN KORTHEUER	200	M.	BRST	ANN PISCIOTTA	USA	08-23-92	3:35.36
32.19	05-26-85	USA	FRANK PIEMME	50	M.	FLY	JANE ASHER	ENG	- -91	38.54
1:17.39	10-15-88	USA	WIN WILSON	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.				
2:51.41	08-18-91	USA	GRAHAM JOHNSTON	200	M.	I.M.	CLARA WALKER	USA	07-16-86	3:17.40
6:04.99	08-18-91	USA	GRAHAM JOHNSTON	400	M.	I.M.	CLARA WALKER	USA	08-02-86	6:59.45

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-92)

*****		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	AUST	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	CLARA WALKER	USA	06-14-92	47.05
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	M. EVANS	ENG	- -89	3:45.71
33.34	- -87	ENG	J 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.				
3:02.81	06-07-87	USA	PETER POWLISON	200	M. I.M.	CLARA WALKER	USA	08-23-92	3:20.58
6:37.79	07-05-92	USA	ROGER FRANKS	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	D. SUZUKI	400	M. FREE	CATHERINE KERR	CAN	07-05-92	7:15.99
12:34.22	- -91	JPN	D. SUZUKI	800	M. FREE	RITA SIMONTON	USA	08-14-88	15:04.91
23:59.01	08-18-91	JPN	D SUZUKI	1500	M. FREE	RITA SIMONTON	USA	07-09-88	28:46.45
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	B. ANDERSON	AUST	- -87	1:39.85
3:13.25	08-20-89	USA	RAY TAFT	200	M. BACK	B. ANDERSON	AUST	- -87	3:47.59
40.56	- -90	GER	W. 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	AUST	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.	E. 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	H. SUGAYA	JPN	- -91	40.85
1:14.86	08-24-87	USA	KELLEY LEMMON	100	M. FREE	U. WADA	JPN	- -86	1:39.28
2:53.73	08-24-87	USA	KELLEY LEMMON	200	M. FREE	V. CHERRIMAN	ENG	- -84	3:52.90
6:27.76	- -81	USA	ARTHUR RULE	400	M. FREE	MARIA LENK	BRA	- -91	8:04.16
13:35.96	07-31-87	USA	HERBERT HOWE	800	M. FREE	MARIA LENK	BRA	- -91	16:33.41
25:41.55	07-31-87	USA	HERBERT HOWE	1500	M. FREE	JEAN DURSTON	USA	06-17-90	31:46.49
40.47	07-17-82	USA	ARTHUR HARGRAVE	50	M. BACK	WILLY VAN RYSEL	ENG	- -91	46.64
1:32.92	08-29-82	USA	ARTHUR HARGRAVE	100	M. BACK	WILLY VAN RYSEL	ENG	- -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	H. YOSHIMOTO	50	M. BRST	E PAULI	GER	- -89	52.90
1:39.69	08-24-87	USA	KELLEY LEMMON	100	M. BRST	M. BUTZBACH	GER	- -86	2:07.86
3:44.71	08-18-91	USA	DON MCCULLOUGH	200	M. BRST	M. BUTZBACH	GER	- -86	4:36.72
41.25	08-24-87	USA	KELLEY LEMMON	50	M. FLY	MARIA LENK	BRA	- -90	57.22
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		*****	
36.62	08-03-90	USA	GERSON SOBEL	50	M. FREE	U. WADA	JPN	- -91	44.25
1:28.22	08-03-90	USA	GERSON SOBEL	100	M. FREE	U. WADA	JPN	- -91	1:39.30
3:31.79	08-28-83	USA	GUS LANGNER	200	M. FREE	U. WADA	JPN	- -92	3:44.00
7:23.09	08-28-83	USA	GUS LANGNER	400	M. FREE	U. WADA	JPN	- -91	8:23.50
15:48.62	- -90	JPN	T. TERAO	800	M. FREE	U. WADA	JPN	- -91	17:21.19
28:54.95	08-13-83	USA	GUS LANGNER	1500	M. FREE	JULIA DOLCE	USA	08-20-90	36:54.26
45.69	08-08-87	USA	ART HARGRAVE	50	M. BACK	M WRIGHT	AUST	- -89	53.73
1:50.05	08-09-87	USA	ART HARGRAVE	100	M. BACK	M WRIGHT	AUST	- -89	2:01.87
3:58.25	07-05-92	USA	CHARLES SALIE	200	M. BACK	M WRIGHT	AUST	- -89	4:22.89
46.59	- -91	GER	KARL WITTENBERG	50	M. BRST	M WRIGHT	AUST	- -89	1:04.78
1:51.25	- -91	GER	KARL WITTENBERG	100	M. BRST	MAXINE MERLINO	USA	08-23-92	2:22.79
4:25.69	08-23-92	USA	HAROLD PERRY	200	M. BRST	MAXINE MERLINO	USA	08-23-92	5:07.83
52.05	08-18-91	USA	JESSE COON	50	M. FLY	V CHERRIMAN	ENG	- -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	AUST	FRANK GRIFFITHS	200	M. FLY	MAXINE MERLINO	USA	08-23-92	5:29.93
				100	M. I.M.				
4:20.72	- -89	AUST	FRANK GRIFFITHS	200	M. I.M.	MAXINE MERLINO	USA	08-23-92	4:47.02
9:47.72	- -88	AUST	FRANK GRIFFITHS	400	M. I.M.	MAXINE MERLINO	USA	08-23-92	10:05.13

FINA WORLD RECORDS

LONG COURSE METERS (as of 11-1-92)

*****		M E N		*****		85-89		*****		W O M E N		*****	
44.65	07-23-89	USA	GUS LANGNER	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			
59.15	06-23-91	USA	PETER JURCZYK	50	M.	BACK	AILEEN SOULE	USA	08-18-91	58.42			
2:18.74	08-05-89	USA	REGINALD HARRISON	100	M.	BACK	AILEEN SOULE	USA	06-09-91	2:13.13			
5:08.97	06-23-91	USA	PETER JURCZYK	200	M.	BACK	AILEEN SOULE	USA	06-09-91	4:47.82			
58.96	07-05-92	GER	F. MEERWALD	50	M.	BRST	D. VENNING	NZL	- -87	1:28.69			
2:18.92	- -91	JPN	S YOSHIDA	100	M.	BRST	KATHERINE PELTON	USA	06-26-91	3:18.97			
5:09.86	- -91	JPN	S YOSHIDA	200	M.	BRST	ELLA PECKHAM	USA	- -84	7:45.92			
59.50	- -91	JPN	S YOSHIDA	50	M.	FLY	ELLA PECKHAM	USA	06-15-85	1:27.77			
3:23.06	08-18-91	USA	ABE OLANOFF	100	M.	FLY	KATHERINE PELTON	USA	07-28-91	3:01.14			
				200	M.	FLY	KATHERINE PELTON	USA	08-12-90	7:18.41			
				100	M.	I.M.							
5:33.20	08-24-86	USA	THOMAS CURETON	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		*****	
59.88	04-28-84	USA	COLLISTER WHEELER	50	M.	FREE	PEARL MILLER	USA	07-10-88	2:02.38			
2:14.06	04-28-84	USA	COLLISTER WHEELER	100	M.	FREE	PEARL MILLER	USA	07-10-88	4:08.22			
6:03.12	07-14-90	USA	PAUL SPANGLER	200	M.	FREE							
				400	M.	FREE							
				800	M.	FREE							
52:41.53	07-14-90	USA	PAUL SPANGLER	1500	M.	FREE							
1:16.30	05-28-89	USA	TOM LANE	50	M.	BACK	V FERNANCE	AUST	- -88	2:01.70			
3:19.14	07-05-92	USA	TOM LANE	100	M.	BACK	V FERNANCE	AUST	- -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 11-1-92)

WRL LCM RECORDS AS OF 11-01-92

***** 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 MAVEN		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		SUE SKIFF		SUZANNE O'HARA
	L. MORRISON-CASEY		JACKI HIRSTY		CHRIS R-PROSCHE		BETH O'CONNOR
160+	D.C.MASTERS-USA	08-28-88	2:03.48	160+	SG NEUKOLLN	- -91	2:18.38
	JACKI HIRSTY		NANCY KIRKENDALL				
	ANN SVANSON		SUE HARRINGTON				
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+	MANLY AUSSI-AUS	04-12-92	3:37.44
					ELIZABETH WALLIS		BETTY CALLAGHAN
					EILEEN PRICE		LILIAN JOHNSON
320+	RIO - BRA	- -90	3:23.25	320+			

***** RELAY 200 M. FREE - M E N *****				***** RELAY 200 M. MEDLEY - M E N *****			
100+	REGATAS-BRASIL	- -90	1:37.40	100+	POWERS-AUST	- -90	1:49.84
120+	LONE STAR	- -86	1:37.43	120+	POWERS-AUST	- -90	1:49.84
160+	HOLMES - USA	08-11-90	1:39.27	160+	HOLMES - USA	08-09-90	1:54.57
	JAMES LILLEY		C. MILTENBERGER		JAMES LILLEY		C. MILTENBERGER
	RICHARD ABRAHAMS		TIMOTHY GARTON		RICHARD ABRAHAMS		TIMOTHY GARTON
200+	OLYMPIC CLUB	07-05-92	1:47.65	200+	TOC - USA	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+	LOS ALTOS	07-05-92	2:10.75	280+	OREGON	08-23-92	2:34.57
	JOHN RICHARDS		JAY CRADDOCK		FLOYD ELIOTT		BOB MORRISON
	JACK MCCANN		HUGH RICHARDS		ANDREW HOLDEN		GERALD HUESTIS
320+	PNA - USA	08-23-92	3:07.37	320+			
	EVERETT CASSELL		GENE CROSSETT				
	JIM PENFIELD		ALLAN SACHS				
*****	RELAY 200 M. FREE - MIXED *****			*****	RELAY 200 M. MEDLEY - MIXED *****		
100+	HOLMES - USA	- -88	1:43.89	100+	HOLMES - USA	- -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
160+	HOLMES - USA	- -88	1:48.82	160+	HOLMES - USA	- -88	2:02.10
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	08-23-92	2:31.29	280+	HOLMES - USA	- -88	2:37.98
	GERALD HUESTIS		ANDREW HOLDEN				
	PETHEY SMITH		PAULINE STANGEL				
320+	PNA - USA	08-23-92	3:46.53	320+	INDIAN RIV-USA	06-21-92	4:32.41
	LEE HOLM		MARION MUELLER		PETER JUREZYK		GIL SPEAR
	JIM PENFIELD		ALLAN SACHS		ANNE WILDER		MEREDITH SCANLON

FINA WORLD RECORDS

SHORT COURSE METERS (as of 11-1-92)

WRL SCM RECORDS AS OF 11-01-92

***** M E N *****			***** W O M E N *****							
***** 25-29 *****			***** 30-34 *****							
Time	Date	Country	Name	Distance	Stroke	Name	Distance	Stroke	Date	Country
23.16	11-10-91	USA	ROBERT PEEL	50 M.	FREE	LIZ FABRIZIO	USA	10-15-89	26.93	
51.74	- -90	HOL	L VERHAGE	100 M.	FREE	MONIQUE RODAHL	NZL	- -90	58.93	
1:54.00	10-15-89	USA	BRAD WELLS	200 M.	FREE	R. WILLIAMS	NZL	- -91	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 MACKEL	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	
58.30	05-17-92	JPN	TAKESHI ITABASHI	100 M.	BACK	DIANE GRANER	USA	10-15-89	1:04.66	
2:09.12	10-15-89	USA	BRAD WELLS	200 M.	BACK	J.DE ROVER	HOL	- -92	2:17.86	
28.81	- -90	AUS	G FARROW	50 M.	BRST	R. WILLEMSE	HOL	- -90	33.60	
1:04.49	- -91	HOL	F VIJVER	100 M.	BRST	R. WILLEMSE	HOL	- -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	A.ERIKSSON	SWE	- -92	29.48	
57.07	10-15-89	USA	BRAD WELLS	100 M.	FLY	S MCDONALD	SCO	- - B	1:05.71	
2:07.65	- -90	ENG	P SHACKLEY	200 M.	FLY	S. PALMER-WHITE	AUST	- -91	2:17.13	
57.70	- -90	AUS	G FARROW	100 M.	I.M.	MONIQUE RODAHL	NZL	- -90	1:06.84	
2:10.85	- -91	ENG	ROLAND LEE	200 M.	I.M.	DIANE GRANER	USA	10-15-89	2:24.07	
4:43.99	12-09-90	USA	ALLAN JAEGRS	400 M.	I.M.	S. PALMER-WHITE	AUST	- -91	5:06.88	
***** M E N *****			***** W O M E N *****							
***** 30-34 *****			***** 35-39 *****							
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	
17:11.56	06-09-90	USA	MATT CLARK	1500 M.	FREE	LYNN MARSHALL	CAN	10-05-92	17:41.61	
27.18	04-28-91	USA	J. CLAY BRITT	50 M.	BACK	L HASSELQUIST	USA	12-09-89	32.24	
58.12	04-28-91	USA	J. CLAY BRITT	100 M.	BACK	M.OLIVER-SEXSMITH	CAN	05-25-92	1:09.59	
2:15.67	10-15-89	USA	FRITZ LEHMAN	200 M.	BACK	ZENA HERRMANN	USA	12-15-91	2:32.32	
30.03	- -90	JPN	G. CHRISTIANSEN	50 M.	BRST	D.HILBIG	GER	- -92	33.74	
1:05.97	- -91	JPN	G. CHRISTIANSEN	100 M.	BRST	LISA BENNETT	USA	10-15-89	1:18.13	
2:24.92	- -91	JPN	G. CHRISTIANSEN	200 M.	BRST	ESTER ISEPPI	SWI	10-15-89	2:49.16	
25.06	04-09-89	USA	MICHAEL BOTTOM	50 M.	FLY	S NEILSON-BELL	USA	05-18-88	30.20	
56.43	04-09-89	USA	MICHAEL BOTTOM	100 M.	FLY	R. PERROTT	NZL	- -91	1:04.69	
2:13.62	12-11-88	USA	R MARK SCHUMAN	200 M.	FLY	NEROLI NIXON	AUST	- -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	
4:55.11	12-11-88	USA	R MARK SCHUMAN	400 M.	I.M.	R. PERROTT	NZL	- -92	5:13.69	
***** M E N *****			***** W O M E N *****							
***** 35-39 *****			***** 40-44 *****							
23.98	10-15-89	USA	BILL VICKERY	50 M.	FREE	S. NIELSON-BELL	USA	03-21-92	26.47	
53.94	10-15-89	USA	BILL VICKERY	100 M.	FREE	JACKI HIRSTY	USA	10-15-89	1:00.75	
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	DANIELLE OGIER	USA	12-16-90	4:51.04	
9:11.41	01-19-92	USA	JIM STEWART	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	
28.05	10-15-89	USA	MEL NASH	50 M.	BACK	LAURA VAL	USA	10-06-91	32.50	
1:01.45	04-29-90	USA	THOMAS WOLF	100 M.	BACK	PAT GILMORE	CAN	- - B	1:10.47	
2:15.47	04-29-90	USA	THOMAS WOLF	200 M.	BACK	PAT GILMORE	CAN	- - B	2:34.09	
31.94	10-15-89	USA	BILL VICKERY	50 M.	BRST	LESLIE OSBORNE	USA	10-15-89	34.63	
1:08.30	- -90	GER	G 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	
25.96	06-01-91	USA	RICHARD HESS	50 M.	FLY	LAURA VAL	USA	10-06-91	30.05	
1:00.67	- -90	AUST	N ROGERS	100 M.	FLY	LAURA VAL	USA	10-06-91	1:07.42	
2:17.23	05-17-92	JPN	Y NAKAMURA	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.	CATHERINE KOHN	USA	10-15-89	2:35.52	
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 *****							
***** 40-44 *****			***** 45-49 *****							
24.91	09-17-88	USA	ANDY MCPHERSON	50 M.	FREE	MAGDOLNA PATCH	HUN	- -90	29.09	
55.35	09-17-88	USA	ANDY MCPHERSON	100 M.	FREE	S. SHRIMPTON	ENG	- - B	1:04.92	
2:01.01	10-15-89	USA	KEVIN POLANSKY	200 M.	FREE	BARBARA DUNBAR	USA	10-27-91	2:21.22	
4:18.45	10-15-89	USA	KEVIN POLANSKY	400 M.	FREE	BARBARA DUNBAR	USA	02-04-90	4:53.28	
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	ENG	- -91	33.85	
1:04.50	10-15-89	USA	RIC COOLEY	100 M.	BACK	B.BAZUREAU	FRA	- -92	1:13.17	
2:22.17	10-15-89	USA	TOD SPIEKER	200 M.	BACK	B.BAZUREAU	FRA	- -92	2:39.04	
31.33	10-15-89	USA	PAUL HENNE	50 M.	BRST	B PRONK	CAN	06-27-87	38.00	
1:10.61	05-24-92	JPN	TOSHIHARU FUJII	100 M.	BRST	GINGER PIERSON	USA	09-11-88	1:23.81	
2:38.16	10-15-89	MEX	RAFAEL HERNANDEZ	200 M.	BRST	GINGER PIERSON	USA	06-27-87	3:01.86	
26.67	08-11-91	USA	JOHN HEIDENREICH	50 M.	FLY	S. PLATT-ROGERS	ENG	- -91	31.81	
1:00.79	10-15-89	USA	ANDREW MCPHERSON	100 M.	FLY	BARBARA DUNBAR	USA	10-29-89	1:10.56	
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.	SANDRA O'NEIL	ENG	- -91	1:14.63	
2:18.73	10-15-89	USA	JOHN CALVERT	200 M.	I.M.	BARBARA DUNBAR	USA	06-15-91	2:42.81	
5:00.76	10-15-89	USA	JOHN CALVERT	400 M.	I.M.	BARBARA DUNBAR	USA	- -90	5:42.95	

FINA WORLD RECORDS

SHORT COURSE METERS (as of 11-1-92)

***** M E N *****			45-49 *****			***** W O M E N *****				
25.46	10-15-89	USA	RICHARD WOODROW	50	M.	FREE	NANCY RIDOUT	USA	10-15-89	30.05
56.64	10-15-89	USA	KEEFE LODWIG	100	M.	FREE	NANCY RIDOUT	USA	10-15-89	1:07.90
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	C. FERRIS-BOAK	USA	10-06-91	5:23.41
9:26.18	- -92	BAR	ANGUS EDGHILL	800	M.	FREE	JANE KATZ	USA	10-27-91	11:04.43
18:10.24	- -91	BAR	ANGUS EDGHILL	1500	M.	FREE	PAT MALEY	USA	11-04-90	22:18.64
29.33	03-12-89	USA	ROBERT SMITH	50	M.	BACK	S. TAKEUJI	JPN	- - B	35.43
1:05.31	03-12-89	USA	ROBERT SMITH	100	M.	BACK	S. TAKEUJI	JPN	- - B	1:17.13
2:24.87	10-27-91	USA	JOHN CALVERT	200	M.	BACK	BETTY BENNETT	USA	05-13-89	2:56.06
31.95	- -91	HOL	K WITTENHOUT	50	M.	BRST	ELAINE BROMWICH	USA	12-09-90	38.67
1:10.70	10-06-91	USA	ROBERT STRAND	100	M.	BRST	GINGER PIERSON	USA	01-12-92	1:24.87
2:41.02	12-14-91	USA	ROBERT STRAND	200	M.	BRST	GINGER PIERSON	USA	04-21-91	3:04.75
27.46	03-21-92	USA	DAN THOMPSON	50	M.	FLY	JUDY WILSON	ENG	05-03-92	32.97
1:03.48	- -90	USA	GARY LANGENDOEN	100	M.	FLY	JUDY WILSON	ENG	- -91	1:15.58
2:28.48	- -90	USA	GARY LANGENDOEN	200	M.	FLY	ARDETH MUELLER	USA	12-12-87	2:37.88
1:06.13	03-04-90	USA	ROBERT SMITH	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
5:17.02	10-15-89	USA	EDWARD CAZALET	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	Y OSAKI	JPN	- -89	31.31
59.21	- -90	SWE	PETER BERGEGREN	100	M.	FREE	ARDETH MUELLER	USA	10-06-91	1:06.41
2:15.10	06-09-90	USA	HENRY SOUTHALL	200	M.	FREE	ARDETH MUELLER	USA	12-07-91	2:27.95
4:45.96	-4 -85	USA	BURWELL JONES	400	M.	FREE	ARDETH MUELLER	USA	10-06-91	5:12.43
9:50.17	10-15-89	USA	DRURY GALLAGHER	800	M.	FREE	LAVELLE STOINOFF	USA	02-01-87	11:35.78
19:04.02	- -92	ENG	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	- -91	NZL	BARRY YOUNG	100	M.	BACK	ARDETH MUELLER	USA	12-07-91	1:20.50
2:30.21	- -91	NZL	BARRY YOUNG	200	M.	BACK	ARDETH MUELLER	USA	12-07-91	2:48.88
33.09	- -90	JPN	H. KOTEGAWA	50	M.	BRST	E. LOSKAMP	HOL	- -92	38.82
1:14.72	10-15-89	USA	DRURY GALLAGHER	100	M.	BRST	E. LOSKAMP	HOL	- -92	1:25.73
2:45.11	10-15-89	USA	DRURY GALLAGHER	200	M.	BRST	E. LOSKAMP	HOL	- -92	3:08.87
28.83	05-17-92	JPN	KOJI IWAMOTO	50	M.	FLY	E. LOSKAMP	HOL	- -92	35.23
1:06.66	10-15-89	USA	ROBERT PROEBSTING	100	M.	FLY	ARDETH MUELLER	USA	10-06-91	1:12.66
2:36.01	10-15-89	USA	ROBERT PROEBSTING	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.	Y 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
2:18.03	05-17-92	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	ENG	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	LAVELLE STOINOFF	USA	03-12-89	3:11.13
33.47	05-10-92	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	F. CONNOLLY	SCO	- -90	1:28.13
2:51.47	10-15-89	USA	MANUEL SANGUILY	200	M.	BRST	F. CONNOLLY	SCO	- -90	3:12.85
30.15	09-16-90	USA	ROBERT BAILIE	50	M.	FLY	BETSY JORDAN	USA	04-11-92	37.81
1:13.47	11-04-90	USA	WALLY DOBLER	100	M.	FLY	F. CONNOLLY	SCO	- -89	1:27.88
2:53.71	10-15-89	USA	MANUEL SANGUILY	200	M.	FLY	F. CONNOLLY	SCO	- -90	3:11.42
1:12.67	12-10-89	USA	BURWELL JONES	100	M.	I.M.	JAYNE BRUNER	USA	10-15-89	1:24.19
2:41.86	12-09-90	USA	BURWELL JONES	200	M.	I.M.	F. CONNOLLY	SCO	- -90	3:05.23
5:54.37	12-10-89	USA	BURWELL JONES	400	M.	I.M.	F. CONNOLLY	SCO	- -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	ENG	- -91	33.54
1:05.52	07-15-90	USA	CHARLES BALDWIN	100	M.	FREE	JANE ASHER	ENG	- -91	1:13.68
2:21.77	08-11-91	USA	GRAHAM JOHNSTON	200	M.	FREE	JANE ASHER	ENG	- -91	2:49.55
5:03.13	07-19-92	USA	GRAHAM JOHNSTON	400	M.	FREE	CLARA WALKER	USA	02-15-87	6:02.43
11:14.13	03-05-89	USA	WILLIAM PHILLIPS	800	M.	FREE	CLARA WALKER	USA	04-21-90	12:21.67
21:46.98	04-21-90	USA	WIN WILSON	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
2:49.82	10-15-89	USA	ROGER FRANKS	200	M.	BACK	DORIS STEADMAN	USA	12-10-88	3:16.14
37.53	12-10-89	USA	JOSEPH KURTZMAN	50	M.	BRST	EDITH BOEHM	GER	- -90	42.02
1:23.19	10-15-89	USA	DONALD VANROSSEN	100	M.	BRST	ANN PISCIOITTA	USA	10-06-91	1:39.26
3:06.66	- -91	ITA	BRUNELLO GRAJA	200	M.	BRST	JUDIE OLIVER	CAN	05-24-92	3:29.39
32.09	- -91	JPN	HITOSHI KATO	50	M.	FLY	JANE ASHER	ENG	- -91	38.40
1:16.56	09-26-87	ENG	J HALE	100	M.	FLY	JUDIE OLIVER	CAN	05-24-92	1:31.43
3:06.04	10-15-89	USA	CHARLES MOSS	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
6:03.45	07-19-92	USA	GRAHAM JOHNSTON	400	M.	I.M.	JUDIE OLIVER	CAN	05-25-92	6:50.55

FINA WORLD RECORDS

SHORT COURSE METERS (as of 11-1-92)

***** M E N *****			***** 65-69 *****			***** W O M E N *****			
29.63	11-04-90	USA	FRANK PIEMME	50	M. FREE	M CUNNINGHAM	AUS	- -90	34.92
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	12-14-91	6:16.83
11:55.05	12-29-90	USA	FRANK PIEMME	800	M. FREE	CLARA WALKER	USA	12-14-91	12:38.09
22:21.91	11-17-90	USA	FRANK PIEMME	1500	M. FREE	CLARA WALKER	USA	12-14-91	23:48.62
36.36	11-03-90	USA	PAUL HUTINGER	50	M. BACK	DORIS STEADMAN	USA	10-15-89	40.48
1:21.06	10-25-92	USA	ROGER FRANKS	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	HOL	- -90	1:43.57
3:15.28	- -91	GER	KARL HEINZ KNOPS	200	M. BRST	M. EVANS	ENG	- -90	3:46.02
33.63	12-09-90	USA	FRANK PIEMME	50	M. FLY	M CUNNINGHAM	AUST	- -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	11-04-92	3:38.65
1:20.20	06-08-86	USA	RAY TAFT	100	M. I.M.	M CUNNINGHAM	AUS	10-06-90	1:37.07
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.	FLORENCE CARR	USA	12-09-90	7:57.77
***** M E N *****			***** 70-74 *****			***** W O M E N *****			
31.80	- - B	JPN	T NAKASHIMA	50	M. FREE	DOROTHY DONNELLY	USA	06-06-92	39.13
1:12.57	05-25-92	USA	JOHN RICHARDS	100	M. FREE	LOUISE DONOVAN	USA	12-11-88	1:31.84
2:46.86	07-07-89	USA	RAY TAFT	200	M. FREE	DOROTHY DONNELLY	USA	06-06-92	3:27.01
5:56.06	07-14-89	USA	RAY TAFT	400	M. FREE	RITA SIMONTON	USA	12-03-88	7:17.22
12:15.49	07-21-89	USA	RAY TAFT	800	M. FREE	RITA SIMONTON	USA	12-10-89	15:06.99
23:59.12	04-29-88	USA	ALDO DA ROSA	1500	M. FREE	RITA SIMONTON	USA	12-29-90	28:29.85
38.44	10-15-89	USA	RAY TAFT	50	M. BACK	W VAN RYSEL	ENG	12-13-87	45.08
1:24.30	10-15-89	USA	RAY TAFT	100	M. BACK	W VAN RYSEL	ENG	12-13-87	1:44.02
3:07.57	10-15-89	USA	RAY TAFT	200	M. BACK	W VAN RYSEL	ENG	- -90	3:53.86
40.02	- -90	GER	W. 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	M. HAMURO	JPN	- -90	4:09.41
36.09	12-01-90	USA	ANDREW HOLDEN	50	M. FLY	CATHERINE KERR	CAN	- -91	48.27
1:31.20	12-09-89	USA	PAUL KRUP	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	H. SUGAYA	JPN	- -91	42.88
1:15.94	04-16-88	USA	KELLEY LEMMON	100	M. FREE	V CHERRIMAN	ENG	- -85	1:45.53
2:59.20	10-15-89	USA	DEXTER WOODFORD	200	M. FREE	U. WADA	JPN	- -90	3:50.58
6:23.81	10-15-89	USA	DEXTER WOODFORD	400	M. FREE	V CHERRIMAN	ENG	12-13-86	7:56.05
13:17.26	10-15-89	USA	DEXTER WOODFORD	800	M. FREE	MAXINE MERLINO	USA	11-19-88	17:16.06
25:15.05	- -91	CAN	N. ARTUS	1500	M. FREE	MAXINE MERLINO	USA	10-16-88	33:53.33
41.90	-5 -85	GER	R REINSTADTLER	50	M. BACK	WILLY VAN RYSEL	ENG	- -91	48.06
1:34.84	12-08-90	USA	EDWARD SHEA	100	M. BACK	WILLY VAN RYSEL	ENG	- -91	1:48.13
3:27.82	11-10-91	USA	EDWARD SHEA	200	M. BACK	WILLY VAN RYSEL	ENG	- -91	4:00.43
42.99	- -90	JPN	H YOSHIMOTO	50	M. BRST	D. WESTON	ENG	- -90	58.41
1:42.06	11-18-90	USA	DON MCCULLOUGH	100	M. BRST	E. PAULI	GER	- -91	2:00.27
3:36.71	10-07-90	USA	DON MCCULLOUGH	200	M. BRST	MAXINE MERLINO	USA	10-30-88	4:35.24
43.99	-9 -85	USA	BILL SHOTT	50	M. FLY	MAXINE MERLINO	USA	03-20-88	59.27
1:44.78	11-18-90	USA	DON MCCULLOUGH	100	M. FLY	MAXINE MERLINO	USA	12-03-88	2:12.17
4:01.10	11-18-90	USA	DON MCCULLOUGH	200	M. FLY	MAXINE MERLINO	USA	10-30-88	4:48.50
1:35.55	04-16-89	USA	KELLEY LEMMON	100	M. I.M.	MAXINE MERLINO	USA	03-20-88	2:00.07
3:35.61	04-16-88	USA	KELLEY LEMMON	200	M. I.M.	MAXINE MERLINO	USA	10-30-88	4:17.89
7:49.57	10-07-90	USA	DON MCCULLOUGH	400	M. I.M.	MAXINE MERLINO	USA	02-07-88	9:07.66
***** M E N *****			***** 80-84 *****			***** W O M E N *****			
37.85	10-27-91	USA	GERSON SOBEL	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	ENG	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	AUST	F LOUGH	400	M. FREE	V CHERRIMAN	ENG	10-24-87	8:51.10
15:41.78	12-17-86	USA	GUS LANGNER	800	M. FREE	V CHERRIMAN	ENG	12-13-87	18:11.90
29:58.32	12-21-86	USA	GUS LANGNER	1500	M. FREE	V CHERRIMAN	ENG	- - B	35:44.26
46.85	- -90	JPN	T TERA0	50	M. BACK	V CHERRIMAN	ENG	- - B	1:05.08
1:45.81	- -90	JPN	T TERA0	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	V CHERRIMAN	ENG	- - B	1:07.65
2:09.01	10-29-89	USA	JIM PENFIELD	100	M. BRST	MAXINE MERLINO	USA	10-11-92	2:21.80
4:45.98	- -91	CAN	J. MCDIARMID	200	M. BRST	ELSA MATTILA	USA	04-28-91	5:33.05
49.08	08-11-91	USA	JESSE COON	50	M. FLY	V CHERRIMAN	ENG	- - B	1:13.27
2:07.29	08-11-91	USA	JESSE COON	100	M. FLY	KATHERINE PELTON	USA	11-22-86	3:09.18
5:14.66	08-11-91	USA	JESSE COON	200	M. FLY	ELSA MATTILA	USA	04-28-91	6:20.56
1:53.59	02-01-87	USA	HERB EISENSCHMIDT	100	M. I.M.	UME WADA	JPN	05-24-92	2:13.44
4:22.04	04-29-92	JPN	RYOUSUKE YAMASAKI	200	M. I.M.	ELSA MATTILA	USA	04-28-91	5:23.78
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 11-1-92)

***** 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			
59.79	12-07-91	USA	HERB EISENSCHMIDT	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
5:23.27	04-01-90	USA	JOE KAUFMAN	200 M.	BACK	MARIAN MCKECHNIE	USA	10-15-89 6:00.16
1:05.80	- -89	GER	K KUPPINGER	50 M.	BRST	KATHERINE PELTON	USA	11-04-90 1:37.05
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	AUST	L. SPARRIUS	50 M.	FREE	V FERNANCE	AUST	- -89 2:06.95
2:49.33	12-09-90	USA	PAUL SPANGLER	100 M.	FREE	V FERNANCE	AUST	- -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	V FERNANCE	AUST	- -89 1:55.07
				100 M.	BACK	V FERNANCE	AUST	- -90 4:19.46
				200 M.	BACK			
1:50.16	04-02-89	USA	TOM LANE	50 M.	BRST	D VENNING	NZL	- -91 1:49.01
				100 M.	BRST	D 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 11-1-92)

WRL SCM RECORDS AS OF 11-01-92

***** RELAY 200 M. FREE - WOMEN *****	*****	RELAY 200 M. MEDLEY - WOMEN *****
100+ SLAM-USA	1:58.02	100+ SWISS COTT-ENG 2:11.99
120+ SLAM-USA	1:58.02	120+ SWISS COTT-ENG 2:11.99
160+ DC-USA	2:01.10	160+ GERMANY 2:16.65
200+ TAMALPAIS-USA	2:11.64	200+ GERMANY 2:29.96
240+ SWEDEN	2:42.57	240+ SAN DIEGO-USA 3:05.53
280+ MANLY-AUST	3:13.66	280+ MANLY-AUST 3:28.26
320+ CONN-USA	3:54.63	320+

***** RELAY 200 M. FREE - M E N *****	*****	RELAY 200 M. MEDLEY - M E N *****
100+ ENGLAND	1:38.25	100+ GCWP-USA 10-15-89 1:50.73
120+ BAYLOR/LSTAR RICHARD HESS M. RHODENBAUGH	03-21-92 1:37.89 DOUG MOYSE BOBBY PATTEN	120+ GCWP-USA 10-15-89 1:50.73
160+ SWAM-USA	06-01-91 1:41.93	160+ SWAM-USA 06-01-91 1:55.51
200+ LOS ALTOS-USA	1:48.34	200+ LOS ALTOS-USA 10-15-89 2:02.44
240+ SCOTLAND	2:05.13	240+ GIMSA-USA 10-15-89 2:21.09
280+ SWEDEN	2:11.80	280+ OREGON-USA 12-01-90 2:36.92
320+		320+

***** RELAY 200 M. FREE - MIXED *****	*****	RELAY 200 M. MEDLEY - MIXED *****
100+ SWEDEN	1:46.19	100+ LAKE-USA 1:58.28
120+ TEXAS-USA	1:48.60	120+ LAKE-USA 1:58.28
160+ GIMSA-USA	10-15-89 1:50.55	160+ NEW ENGLAND-USA 2:07.34
200+ LINCOLN-USA	1:57.25	200+ LINCOLN-USA 2:15.20
240+ LOS ALTOS	10-06-91 2:17.29	240+ LOS ALTOS DELLA SCHORN LAURA VAL 10-06-91 2:32.46
280+ CONNECTICUT JERRY JARROLD RUTH BILLARD	04-20-88 2:38.80 DOROTHY DONNELLY GUS LANGNER	280+ AUSTRALIA JOHN RICHARDS JAY CRADDOCK 3:11.32
320+ SAN MATEO JOE KAUFMANN RAY TAFT	10-06-91 3:52.73 HILDA BUEL MARGARET KEIL	320+ SAN MATEO JOE KAUFMAN RAY TAFT 10-06-91 4:23.02 HILDA BUEL MARGARET KEIL

USMS TOP TENS

Here's the third of the USMS Top Ten subscriptions—*Long Course Meters 1992*. Next scheduled issue is *1992 Short Course Meters*, due in April 1993.

Thanks again to Walt Reid, Top Ten Chairman who compiles all these times, Betsy Durrant for handling the subscription labels, Dorothy Donnelly who dispatches the orders, and our favorite printer, Gene Donner who puts it all together and sends it on its way.

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