

\$6.00

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

**1992
Top Ten
Short Course Meters**

**and
World Records**

As of 11/1/92

**Short Course Meters
Long Course Meters**



Published April 1993

TOP TEN SHORT COURSE METERS

50 M. FREE WOMEN 19-24	34.74 GAYLE M DUNCAN	20	33.95 MARCELLE BACLASKI	23	29.89 JENNIFER AUCOTT	29
28.51 PAMELA MAXWELL	35.05 ANGELA MUELLER	24	33.97 STACI KERR	20	30.05 KAREN ANDREWS	29
29.00 SHERRY WELDON	35.08 PAMELA URBAS	20	34.03 GAYLE M DUNCAN	20	30.08 GENEVIEVE MELLO	25
29.57 PAMELA URBAS	35.64 ERIN EASON	22	34.29 LISA MCCALLUM	24	100 M. FREE WOMEN 25-29	
29.77 KELLY A CROSBY	35.79 CAROLINE COOPER	23	34.44 WENDY BATSON	19	59.17 LIZ FABRIZIO	89
30.15 DAWN M WILSON	35.81 AMY KNOTT	24	34.71 LINDSAY NATA	19	1:03.09 LAURA MUELLER	27
30.21 ERIN EASON	36.04 ANNE TOOLEY	23	35.32 LISA PALMISANO	24	1:03.56 DIANE L URSIN	29
30.28 AMY KNOTT	36.37 WENDY BATSON	19	100 M. FLY WOMEN 19-24		1:05.67 MARY KEITH	28
30.33 AMIE J DIRKS	36.42 NANCY EWELL	24	1:07.42 SARAJANE TUREK	90	1:05.88 CHERYL KUPAN	28
30.37 DIANNE BATSON	100 M. BACK WOMEN 19-24		1:11.77 K.BEHRINGER	23	1:06.86 C.CHICHESTER	29
30.47 LORI GANO	1:12.40 C. HARTZELL	89	1:12.42 CHRISTINA PLANJE	23	1:06.91 DONNA JOHNSON	25
30.56 MARCELLE BACLASKI	1:15.84 AMY KNOTT	24	1:13.23 CHRISTINE KOENIG	22	1:07.06 SUSAN AUGUSTUS	25
100 M. FREE WOMEN 19-24	1:16.76 CHRISTINE KOENIG	22	1:13.59 MARY BERGEN	22	1:07.15 KRISTIN NELSON	26
1:01.87 PAMELA MAXWELL	1:17.09 CYNTHIA MILLER	22	1:14.00 LISA A DIAL	24	1:07.33 ANNE ASHER	27
1:04.20 AMY KNOTT	1:17.79 STACI KERR	20	1:17.07 STACI KERR	20	1:08.10 LEZLIE GRUENLER	29
1:05.15 K.BEHRINGER	1:18.29 ANNE TOOLEY	23	1:22.06 TATA BROSENNE	24	200 M. FREE WOMEN 25-29	
1:06.74 KELLY A CROSBY	1:18.35 MARCELLE BACLASKI	23	1:22.34 ANN WALSH	24	2:06.47 DIANE GRANER	89
1:07.47 PATTI MONTGOMERY	1:20.44 KERI FITZGERALD	22	1:25.33 WENDY BATSON	19	2:17.31 VICKY DAVIDSON	28
1:07.93 DAWN M WILSON	1:21.79 NANCY EWELL	24	1:34.01 STACIE BRADY	19	2:19.41 DIANE L URSIN	29
1:08.92 LISA M CHRISTO	1:22.39 TRACY SEIDENVERG	22	200 M. FLY WOMEN 19-24		2:21.76 DONNA JOHNSON	25
1:09.05 NANCY EWELL	1:22.40 WENDY BATSON	19	2:34.28 CHRISTINA PLANJE	91	2:24.15 MARY KEITH	28
1:09.22 CHERESE EDER	200 M. BACK WOMEN 19-24		2:35.47 STACY COSTA	23	2:25.78 JENNIFER ADAMS	27
1:10.33 LYNN C LATHOUWERS	2:34.32 C. HARTZELL	88	2:35.47 CHRISTINA PLANJE	23	2:26.05 E.HALOUZKA	28
1:10.37 SANDI L HYDE	2:41.51 CYNTHIA MILLER	22	2:40.54 K.BEHRINGER	23	2:26.36 CHERYL KUPAN	28
200 M. FREE WOMEN 19-24	2:43.99 AMY KNOTT	24	2:46.61 CHRISTINE KOENIG	22	2:29.67 AMY COULTER	28
2:15.34 STACY JONES	2:48.13 STACI KERR	20	3:26.22 DIANNE BATSON	24	2:31.15 KRISTIN JOHNSON	26
2:20.41 AMY KNOTT	2:48.41 CHRISTINE KOENIG	22	3:35.52 SHELLEY SINK	20	2:31.17 ELAINE PORTER	29
2:26.82 DAWN M WILSON	2:55.45 NANCY EWELL	24	100 M. I.M. WOMEN 19-24		400 M. FREE WOMEN 25-29	
2:27.49 CHERESE EDER	2:55.51 KERI FITZGERALD	22	1:12.42 LYNDA-BETH HUGHES	89	4:26.18 DIANE GRANER	89
2:28.98 DIANNE BATSON	3:02.31 ALLISON LANDRY	22	1:12.12 PAMELA URBAS	20NV	4:45.54 PATTY RICHARDS	27
2:31.75 LISA MCCALLUM	3:12.42 SHELLEY SINK	20	1:14.25 SHERRI WELDON	21	4:49.26 DONNA JOHNSON	25
2:32.73 KIMBERLY MONAGHAN	3:16.65 JONNA SCHULER	24	1:14.43 CAROLINE COOPER	23	4:50.27 C.CHICHESTER	29
2:34.19 PATTI MONTGOMERY	3:25.45 MASI DENISON	21	1:17.04 TRACY SEIDENVERG	22	5:06.63 KARIN DECK	29
2:34.25 KERI FITZGERALD	50 M. BRST WOMEN 19-24		1:17.91 DIANNE BATSON	24	5:06.89 KRISTIN JOHNSON	26
2:36.42 ANN WALSH	36.55 KATHRYN CAVANAUGH	89	1:18.36 LISA M CHRISTO	24	5:07.55 CHERYL KUPAN	28
2:36.93 CHRISTINA M SILVA	36.05 PAMELA URBAS	20NV	1:18.37 AMIE J DIRKS	21	5:10.73 AMY THAYER	25
400 M. FREE WOMEN 19-24	37.53 STACY COSTA	23	1:18.41 PATTI MONTGOMERY	24	5:12.10 CHRISTINE E WINN	26
4:43.50 LISA DIAL	38.63 TRACY SEIDENVERG	22	1:20.23 NANCY EWELL	24	5:12.24 JENNIFER ADAMS	27
4:43.50 LISA A DIAL	38.98 LESLIE HANKINS	22	1:20.51 KERI FITZGERALD	22	5:12.67 LISA-A VERKE	28
4:59.42 CYNTHIA MILLER	39.16 ANGELA MUELLER	24	200 M. I.M. WOMEN 19-24		800 M. FREE WOMEN 25-29	
5:12.60 LISA M CHRISTO	39.41 KIMBERLY MONAGHAN	22	2:34.20 LISA DIAL	92	9:18.99 DIANE GRANER	90
5:13.07 DIANNE BATSON	39.68 NANCY EWELL	24	2:34.20 LISA A DIAL	24	9:46.01 MARCIA CLEVELAND	28
5:16.12 DAWN M WILSON	39.92 CAROLINE COOPER	23	2:35.76 STACY COSTA	23	9:47.96 JENNIFER KEOGH	29
5:22.52 KIMBERLY MONAGHAN	39.96 DEIDRE CLARK	23	2:36.54 MARY BERGEN	22	9:53.12 DONNA JOHNSON	25
5:24.75 JENNY MUELLER	40.46 C. HUESSEL	22	2:38.93 CHRISTINA PLANJE	23	10:05.51 DIANE DEBOWES	26
5:24.89 SHELLEY SINK	100 M. BRST WOMEN 19-24		2:40.47 CYNTHIA MILLER	22	10:13.18 JULIE BENJAMIN	25
5:32.34 CHRISTINA M SILVA	1:19.97 STACY COSTA	92	2:43.64 CHRISTINE KOENIG	22	10:15.66 KRISTIN JOHNSON	26
5:35.01 LEIGH BENSON	1:19.97 STACY COSTA	23	2:44.92 DIANNE BATSON	24	10:18.16 C.CHICHESTER	29
800 M. FREE WOMEN 19-24	1:21.76 LISA M CHRISTO	24	2:47.39 TRACY SEIDENVERG	22	10:31.12 AMY THAYER	25
10:00.67 CHRISTINA PLANJE	1:23.46 KIMBERLY MONAGHAN	22	2:50.86 CHERESE EDER	19	10:40.10 CHERYL KUPAN	28
10:00.67 CHRISTINA PLANJE	1:23.80 CYNTHIA MILLER	22	2:51.59 STACI KERR	20	10:45.43 CHRISTINE E WINN	26
10:27.54 AMY KNOTT	1:25.49 LESLIE HANKINS	22	400 M. I.M. WOMEN 19-24		1500 M. FREE WOMEN 25-29	
11:03.45 CHERESE EDER	1:25.59 DIANNE BATSON	24	5:21.53 LISA DIAL	92	17:30.18 KAREN BURTON	91
11:29.06 LEIGH BENSON	1:26.19 JUDY SMITH	23	5:21.53 LISA A DIAL	24	18:29.67 DONNA JOHNSON	25
11:49.27 DIANNE BATSON	1:27.49 ANNE TOOLEY	23	5:28.50 CHRISTINA PLANJE	23	19:09.88 KRISTIN JOHNSON	26
12:35.96 TINA THOMPSON	1:28.59 CHERESE EDER	19	5:33.64 CYNTHIA MILLER	22	19:26.90 MARCIA CLEVELAND	28
13:08.46 CHERILYN GARCIA	1:28.72 NANCY EWELL	24	5:42.61 K.BEHRINGER	23	19:59.84 ANNA PLANTIER	29
13:17.48 ANDREA WISNIEWSKI	200 M. BRST WOMEN 19-24		5:55.29 DIANNE BATSON	24	20:33.44 LISA A VERKE	28
13:18.22 JENNIFER R BLAKE	2:50.30 STACY COSTA	92	6:01.85 JONNA SCHULER	24	21:21.05 ANNETTE HOLMGREN	27
13:30.35 NANCY KYLE	2:50.30 STACY COSTA	23	6:01.93 KIMBERLY MONAGHAN	22	21:35.94 DAWN ARMFIELD	29
1500 M. FREE WOMEN 19-24	3:00.66 KIMBERLY MONAGHAN	22	6:39.68 SANDI L HYDE	24	21:38.64 REBECCA JACKMAN	29
18:54.01 KRISTIN HENSON	3:03.50 TRACY SEIDENVERG	22	*****		23:26.03 JANET KUNNERRMANN	29
19:59.98 CHRISTINE KOENIG	3:17.21 DIANNE BATSON	24	50 M. FREE WOMEN 25-29		23:26.85 RENEE BURNS	28
20:03.70 SHELLEY SINK	3:30.32 GINA LEGGIO	19	26.93 LIZ FABRIZIO	89	50 M. BACK WOMEN 25-29	
21:20.48 JENNY MUELLER	3:31.54 JONNA SCHULER	24	27.88 AIMEE BERZINS	25	30.63 DIANE GRANER	89
21:31.09 KIMBERLY MONAGHAN	3:37.46 CATHY LAW	24	28.14 VICKY DAVIDSON	28	30.89 D.GRANER-GALLAS	28
21:36.71 DIANNE BATSON	50 M. FLY WOMEN 19-24		28.39 CORRIN CONVIS	27	32.65 VICKY DAVIDSON	28
24:57.35 ANDREA WISNIEWSKI	30.46 LYNDA-BETH HUGHES	89	28.69 LAURA MUELLER	27	32.78 MARTIE MC KINNEY	27
50 M. BACK WOMEN 19-24	31.51 PAMELA URBAS	20	28.90 MARY KEITH	28	33.26 KAREN ANDREWS	29
33.30 N. WENGROFSKY	32.60 CAROLINE COOPER	23	29.20 ROBIN MOLESE	28	33.45 JANICE E LESYNA	25
34.50 MARCELLE BACLASKI	33.70 ANN WALSH	24	29.85 ELLEN ATKINSON	28	34.66 VICKI MARSH	29

TOP TEN SHORT COURSE METERS

34.77 MARY KEITH	28	32.28 E.HALOUZKA	28	29.11 BETH SCHEIMANN	30	35.26 JEANNE LUEBBERT	32
34.84 BETSY NYGREN	26	32.34 JENNIFER UEBELE	26	29.12 JEANNIE JOHNSON	31	35.36 ROSAMARIA MEYER	30
34.92 SHELLE BOTTA	27	32.61 CHERYL KUPAN	28	29.59 JUDITH MURPHY	33	35.72 JANN BUTLER	32
34.97 SANDY GOLDING	28	32.64 ELLEN ATKINSON	28	29.68 MONICA BAILEY	31	35.78 NANCY MITCHELL	31
100 M. BACK WOMEN 25-29		32.70 LAURA MUELLER	27	29.85 JULIE M PAQUE	34	35.96 JEANNIE JOHNSON	31
1:04.66 DIANE GRANER	89	100 M. FLY WOMEN 25-29		29.88 DEDE MOORE	32	36.22 JENNIFER BARRY	31
1:10.45 VICKY DAVIDSON	28	1:06.31 DIANE GRANER	89	29.88 JENNIFER AUCOTT	30	36.72 PATTY LYNCH	31
1:10.64 ANNA PLANTIER	29	1:08.39 MARTIE MC KINNEY	27	100 M. FREE WOMEN 30-34		37.07 MARILYN EARLY	34
1:11.55 MARTIE MC KINNEY	27	1:10.32 VICKY DAVIDSON	28	57.35 S. NEILSON-BELL	88	100 M. BACK WOMEN 30-34	
1:15.97 C.CHICHESTER	29	1:11.60 DIANE L URSIN	29	1:03.18 KATHY GARNIER	31	1:10.41 LINDLEY DOUGHTY	91
1:16.62 MARCIA CLEVELAND	28	1:11.85 JENNIFER UEBELE	27	1:03.84 MONICA BAILEY	31	1:11.36 ANDREA DEVUONO	30
1:16.77 LESLEY A CHEQUER	26	1:12.16 SHARON ELM	26	1:03.93 BETH SCHEIMANN	30	1:12.45 MONICA BAILEY	31
1:17.98 DIANE ALLEVA	27	1:12.16 CHERYL KUPAN	28	1:04.34 MARY GRACE HUBER	31	1:16.36 DEBRA RIKER	30
1:18.40 KARLA SEAY	27	1:12.88 ANNA PLANTIER	29	1:04.62 SUE HAUGH	31	1:16.36 ROSAMARIA MEYER	30
1:18.60 DONNA NEUMANN	28	1:13.03 E.HALOUZKA	28	1:05.20 JUDITH MURPHY	33	1:17.34 JEANNE LUEBBERT	32
1:19.40 E.HALOUZKA	28	1:13.03 C.CHICHESTER	29	1:05.66 JULIE M PAQUE	34	1:18.94 MARILYN EARLY	34
200 M. BACK WOMEN 25-29		1:13.29 MAUREEN BISCHOFF	25	1:05.98 KATHY FRAZIER	31	1:20.07 ELLEN MORATTI	33
2:20.66 DIANE GRANER	89	200 M. FLY WOMEN 25-29		1:06.84 SUSAN ROESCH	33	1:20.36 SARAH HROMADA	30
2:22.24 D.GRANER-GALLAS	28	2:28.67 KAREN BURTON	91	1:06.95 MARGUERITE MEYER	33	1:21.66 SHEREEN BARRY	30
2:32.17 MARTIE MC KINNEY	27	2:35.86 DIANE MUNTZER	29	200 M. FREE WOMEN 30-34		1:23.75 PATTY LYNCH	31
2:33.26 VICKY DAVIDSON	28	2:41.85 JULIE BENJAMIN	25	2:06.83 SANDY NEILSON	87	200 M. BACK WOMEN 30-34	
2:35.77 JANICE E LESYNA	25	2:43.35 KARIN DECK	29	2:17.74 ELLEN FERGUSON	30	2:32.32 ZENA HERRMANN	91
2:40.99 C.CHICHESTER	29	2:43.49 MARTIE MC KINNEY	27	2:19.28 LESLIE COOPER	32	2:37.36 MONICA BAILEY	31
2:45.02 LESLEY A CHEQUER	26	2:43.90 C.CHICHESTER	29	2:19.29 SUE HAUGH	31	2:41.37 LEISSA K MILLS	32
2:47.43 E.HALOUZKA	28	2:46.00 JENNIFER UEBELE	27	2:19.89 MONICA BAILEY	31	2:43.31 NANCY MITCHELL	31
2:48.12 DONNA NEUMANN	28	2:54.98 LAURIE KILMARTIN	27	2:21.81 CATHY DROZDA	32	2:45.63 DEBRA RIKER	30
2:49.18 JENNIFER ADAMS	27	3:04.33 SANDIE BANAS	25	2:22.63 BETH SCHEIMANN	30	2:46.26 JEANNE LUEBBERT	32
2:50.45 KARLA SEAY	27	3:10.01 PAM HAEERLIN	29	2:24.01 SHEREEN BARRY	30	2:49.15 MARILYN EARLY	34
50 M. BRST WOMEN 25-29		3:23.99 JUDY GROSS	25	2:24.48 MARGUERITE MEYER	33	2:51.23 LIZ KONOP	33
34.36 TRACY MCFARLANE	91	100 M. I.M. WOMEN 25-29		2:24.77 MARILYN EARLY	34	2:51.79 ELLEN MORATTI	33
36.74 ROBIN MOLESE	28	1:08.16 BETH O'CONNOR	88	2:25.38 KATHY GARNIER	31	2:52.56 ROSAMARIA MEYER	30
37.19 VICKI MARSH	29	1:08.89 D.GRANER-GALLAS	28	400 M. FREE WOMEN 30-34		2:53.57 SARAH HROMADA	30
37.90 LYNNE ALBERTELLI	25	1:10.38 CORRIN CONVIS	27	4:31.88 BETH KNIGHT	90	50 M. BRST WOMEN 30-34	
38.19 KARYN HEANEY	27	1:11.53 VICKY DAVIDSON	28	4:54.20 LESLIE COOPER	32	35.25 VAL KERR-HAUGE	91
38.27 ELLEN ATKINSON	28	1:12.07 ROBIN MOLESE	28	4:55.37 SUE HAUGH	31	37.66 BETH SCHEIMANN	30
38.30 SUSAN STOHRER	29	1:13.99 DIANE L URSIN	29	4:58.27 MARGUERITE MEYER	33	37.89 LESLIE COOPER	32
38.61 KRISTIN NELSON	26	1:14.33 ELLEN ATKINSON	28	5:01.31 COLLEEN DRISCOLL	34	38.33 KAREN HERLEHY	32
39.05 DEENA CROSSMORE	27	1:14.72 MARTIE MC KINNEY	27	5:01.64 BETH SCHEIMANN	30	38.89 CAROLYN KOSTER	30
39.45 BEBE OLSON	29	1:14.99 BETSY NYGREN	26	5:02.69 LESLIE J HENSHAW	32	39.14 S.PETERSEN	30
39.52 JENNIFER UEBELE	26	1:15.08 SARAH SCHULTZ	25	5:06.86 JUDITH MURPHY	33	39.15 NANCY MITCHELL	31
100 M. BRST WOMEN 25-29		1:15.25 LESLEY A CHEQUER	26	5:06.95 PAT ROHNER	32	39.53 SUSAN RICHMOND	31
1:14.82 TRACY MCFARLANE	91	200 M. I.M. WOMEN 25-29		5:08.86 ANN FINLEY	30	39.73 JENNIFER BARRY	31
1:19.28 CORRIN CONVIS	27	2:24.07 DIANE GRANER	89	5:11.86 MARIA VELIKONJA	34	40.27 SHARON G BEENE	30
1:20.32 PAMELA LINDROOS	26	2:32.35 MARTIE MC KINNEY	27	800 M. FREE WOMEN 30-34		40.53 JUDITH MURPHY	33
1:21.61 KARYN HEANEY	27	2:33.99 C.CHICHESTER	29	9:17.55 BETH KNIGHT	90	100 M. BRST WOMEN 30-34	
1:21.63 LISA CHANG	25	2:36.51 DIANE L URSIN	29	9:48.40 ELLEN FERGUSON	30	1:18.13 LISA BENNETT	89
1:23.04 VICKI MARSH	29	2:38.01 ANNA PLANTIER	29	9:59.07 MARGUERITE MEYER	33	1:21.97 CATHY DROZDA	32
1:23.12 LYNNE ALBERTELLI	25	2:40.00 PAMELA LINDROOS	26	10:14.24 LESLIE COOPER	32	1:22.38 NANCY MITCHELL	31
1:23.23 ROBIN MOLESE	28	2:40.43 DIANE MUNTZER	28	10:15.45 ERIN E. BORDEN	30	1:22.90 SUSAN RICHMOND	31
1:23.32 ELLEN ATKINSON	28	2:42.05 ROBIN MOLESE	29	10:21.20 COLLEEN DRISCOLL	34	1:23.10 LESLIE COOPER	32
1:23.33 HEATHER LAURIE	27	2:43.00 CHERYL KUPAN	28	10:25.15 NANCY MITCHELL	31	1:23.89 BETH SCHEIMANN	30
1:23.86 KRISTIN NELSON	26	2:43.40 KATHY LYNCH	27	10:35.50 PAT ROHNER	32	1:24.25 S.PETERSEN	30
200 M. BRST WOMEN 25-29		2:43.47 SUSAN STOHRER	29	10:51.87 PATTY STARKS	32	1:25.41 CAROLYN KOSTER	30
2:47.08 GINA GATTI	89	400 M. I.M. WOMEN 25-29		11:16.71 SUSAN NOLTE	31	1:26.67 ANDREA DEVUONO	30
2:51.41 CORRIN CONVIS	27	5:18.02 KAREN BURTON	91	11:21.47 PATRICIA ALARIE	31	1:26.72 JUDITH MURPHY	33
2:55.37 LAURIE KILMARTIN	27	5:30.43 CORRIN CONVIS	27	1500 M. FREE WOMEN 30-34		1:28.41 KATHLEEN PEARSON	34
2:56.54 KARYN HEANEY	27	5:32.53 C.CHICHESTER	29	18:24.43 BONNIE DURDY	89	200 M. BRST WOMEN 30-34	
2:58.61 PAMELA LINDROOS	26	5:39.49 ANNA PLANTIER	29	19:25.45 LESLIE COOPER	32	2:50.96 KAREN MELICK	91
2:59.06 SUSAN STOHRER	29	5:41.09 LISA CHANG	25	19:36.74 ERIN E. BORDEN	30	2:54.48 NANCY MITCHELL	31
3:01.26 KRISTIN NELSON	26	5:41.19 CHERYL KUPAN	28	19:53.29 COLLEEN DRISCOLL	34	2:57.33 SUSAN RICHMOND	31
3:05.56 DIANE ALLEVA	27	5:44.16 JANICE E LESYNA	25	20:08.91 PAT ROHNER	32	2:59.07 LESLIE COOPER	32
3:09.30 JANICE E LESYNA	25	5:49.17 MARCIA CLEVELAND	28	20:41.75 PATTY STARKS	32	3:01.17 BETH SCHEIMANN	30
3:10.05 JANA ZAMBONI	26	5:50.78 PAMELA LINDROOS	26	21:04.53 JOANIE KREHBIEL	30	3:01.75 SUE HAUGH	31
3:10.31 STACY JOHNSON	29	5:51.13 LAURIE KILMARTIN	27	21:27.35 KAREN SAMSONOFF	34	3:03.04 ANDREA DEVUONO	30
50 M. FLY WOMEN 25-29		5:54.27 E.HALOUZKA	28	22:41.10 LORI MOWEN	32	3:07.36 JUDITH MURPHY	33
29.13 BETH O'CONNOR	88	*****		23:10.91 NADINE THOMPSON	33	3:10.04 KATHERINE PRIDE	32
29.82 D.GRANER-GALLAS	28	50 M. FREE WOMEN 30-34		23:13.41 KAREN FORTOUL	31	3:11.11 KATHLEEN PEARSON	34
29.94 JODI SAYKO	26	26.55 SANDY NEILSON	87	50 M. BACK WOMEN 30-34		3:14.08 JULIE BICKEL	31
31.36 VICKY DAVIDSON	28	28.22 KRISTIN HENDERSON	31	32.24 L. HASSELQUIST	89	50 M. FLY WOMEN 30-34	
31.68 MARTIE MC KINNEY	27	28.68 KATHY GARNIER	31	32.81 MONICA BAILEY	31	30.20 S. NEILSON-BELL	88
32.19 VICKI MARSH	29	29.10 MARY GRACE HUBER	31	33.45 ANDREA DEVUONO	30	31.46 JENNIFER BARRY	31

TOP TEN SHORT COURSE METERS

31.53 KRISTIN HENDERSON 31	26.47 S. NIELSON-BELL 92	50 M. BACK WOMEN 35-39	3:24.44 LYNN HUNT 36
31.63 JEANNIE JOHNSON 31	26.47 S.NIELSON-BELL 35	32.50 LAURA VAL 91	50 M. FLY WOMEN 35-39
32.47 ANDREA DEVUONO 30	29.41 PAM DRAFTS 35	34.45 CAROLE SHIGAKI 37	30.05 LAURA VAL 91
32.50 SUE HAUGH 31	29.71 KAREN HOGAN 38	34.58 KAREN FARNSWORTH 36	30.10 S.NIELSON-BELL 35
32.66 BETH SCHEIMANN 30	29.83 MARCIA S DUGGER 36	34.94 JOAN PFINGSGRAFF 38	31.63 MARY ANN STEVENS 39
32.78 GRACIE M GODDARD 33	29.90 VERONICA HIBBEN 36	35.92 SUSAN BLATTNER 35	32.85 ELAINE FINCHAM 36
32.96 DEDE MOORE 32	30.14 MORRI SPANG 36	36.24 MARY HAMILTON 38	32.95 KAREN HOGAN 38
32.96 LESLIE COOPER 32	30.23 MARILYN A S FINK 38	36.30 CYNTHIA MALTRY 37	33.07 VERONICA HIBBEN 36
32.99 NANCY MITCHELL 31	30.37 MARY HAMILTON 38	37.06 MARILYN A S FINK 38	33.18 MALINDA ARVESEN 36
100 M. FLY WOMEN 30-34	30.43 KAREN FARNSWORTH 36	37.10 VERONICA HIBBEN 36	33.27 MARY HAMILTON 38
1:07.34 TAMMY BENNETT 88	30.53 SARAH EICHER 35	37.42 JILL VANDERFLEET 37	33.81 CAROLE SHIGAKI 37
1:10.25 NANCY MITCHELL 31	100 M. FREE WOMEN 35-39	37.81 NAN WITCHER 37	33.84 KRISSEY MACCUDY 39
1:12.05 SUE HAUGH 31	1:00.29 S. NIELSON-BELL 92	100 M. BACK WOMEN 35-39	34.06 CYNTHIA MALTRY 37
1:13.00 MARIA VELIKONJA 34	1:00.29 S.NEILSON-BELL 36	1:12.14 LAURA VAL 91	100 M. FLY WOMEN 35-39
1:13.34 PATTY STARKS 32	1:04.22 MARY ANN STEVENS 39	1:13.49 JOAN PFINGSGRAFF 38	1:07.42 LAURA VAL 91
1:13.68 LEISSA K MILLS 32	1:05.37 VERONICA HIBBEN 36	1:14.55 KAREN FARNSWORTH 36	1:08.74 S.NEILSON-BELL 36
1:13.81 ANDREA DEVUONO 30	1:05.44 MARY CURL 35	1:15.13 CAROLE SHIGAKI 37	1:10.30 SUSAN SKIFF 38
1:16.96 LESLIE J HENSHAW 32	1:05.58 PAM DRAFTS 35	1:18.01 KATHY BRANCH 37	1:11.50 MARY ANN STEVENS 39
1:18.21 COLLEEN DRISCOLL 34	1:06.87 MARILYN A S FINK 37	1:18.70 CATHY KOHN 39	1:13.79 MARY HAMILTON 38
1:18.44 PAT ROHNER 32	1:07.23 MARCIA S DUGGER 36	1:18.88 MARY HAMILTON 38	1:16.14 DENISE EVERITT 39
1:18.62 JOANIE M KREHBIEL 30	1:08.34 KAREN HOGAN 38	1:19.00 JAN TRUCHAN 38	1:16.85 KATHY BRANCH 35
200 M. FLY WOMEN 30-34	1:09.71 NAN WITCHER 37	1:19.11 MARILYN A S FINK 38	1:17.05 KAREN FARNSWORTH 36
2:26.98 NANCY MITCHELL 91	1:09.86 REBECCA PYLE 36	1:19.61 JOANNE E. BOWSER 38	1:17.82 MELISSA BEATY 35
2:31.80 NANCY MITCHELL 31	200 M. FREE WOMEN 35-39	1:19.63 SUSAN BLATTNER 35	1:18.35 VERONICA HIBBEN 36
2:39.40 PATTY M STARKS 32	2:12.69 JACKI HIRSTY 89	200 M. BACK WOMEN 35-39	1:21.58 KAREN BIERWERT 39
2:41.79 MARIA VELIKONJA 34	2:23.89 D. OGIER-POLLARD 39	2:35.03 KAREN FARNSWORTH 91	200 M. FLY WOMEN 35-39
2:48.89 LESLIE J HENSHAW 32	2:24.77 VERONICA HIBBEN 36	2:37.19 KAREN FARNSWORTH 36	2:28.96 LAURA VAL 91
2:50.23 DEBRA RIKER 30	2:27.87 SUSAN SKIFF 38	2:37.41 JOAN PFINGSGRAFF 38	2:32.62 SUSAN SKIFF 38
2:55.10 JULIE M PAQUE 34	2:28.98 MARCIA S DUGGER 36	2:37.65 KATHY BRANCH 35	2:45.47 ELAINE FINCHAM 36
2:58.07 SUSAN RICHMOND 31	2:32.01 MARY FINN 36	2:44.17 CAROLE SHIGAKI 37	2:49.17 KAREN FARNSWORTH 36
2:59.01 ERIN E. BORDEN 30	2:32.24 ELAINE FONG 35	2:51.36 JOANNE BOWSER 37	2:49.35 JOANNE WAINWRIGHT 37
3:03.56 APRILLE DILL 31	2:32.34 LINDA SULZBACH 37	2:51.93 LOUISE C STACY 37	2:56.94 MELISSA BEATY 35
3:14.66 KAREN FORTOUL 31	2:32.70 SUSAN BLATTNER 35	2:53.13 SUSAN BLATTNER 35	3:05.46 REBECCA PYLE 36
100 M. I.M. WOMEN 30-34	2:33.01 PAM DRAFTS 35	2:53.15 CATHY KOHN 39	3:07.87 PAT MANKIN 37
1:07.78 S. NEILSON-BELL 88	2:33.59 DENISE EVERITT 39	2:55.81 MARILYN A S FINK 38	3:15.94 ANITA M WALKER 35
1:11.41 CATHY DROZDA 32	400 M. FREE WOMEN 35-39	2:59.31 PAT MANKIN 37	3:17.08 TERI HENDRYX 39
1:13.02 LEISSA K MILLS 32	4:50.43 KATHERINE BRANCH 92	50 M. BRST WOMEN 35-39	3:54.30 LAURA G MELDRUM 39
1:13.70 BETH SCHEIMANN 30	4:50.43 KATHY BRANCH 35	34.63 LESLIE OSBORNE 89	100 M. I.M. WOMEN 35-39
1:13.96 SUE HAUGH 31	4:54.04 KAREN FARNSWORTH 36	38.22 CATHY CARR L WEST 38	1:08.15 S. NIELSON-BELL 92
1:14.01 NANCY MITCHELL 31	4:56.02 SUSAN SKIFF 38	39.44 PAM DRAFTS 35	1:08.15 S.NIELSON-BELL 35
1:14.10 JENNIFER BARRY 31	4:58.53 D OGIER-POLLARD 39	39.70 MANDY MC CLELLAN 37	1:14.15 CAROLE SHIGAKI 37
1:15.99 GRACIE M GODDARD 33	5:10.60 MARCIA S DUGGER 36	40.34 JEAN L TRACY 38	1:14.42 DONNA NEARY 37
1:16.15 KAREN HERLENY 32	5:13.52 LINDA SULZBACH 37	40.40 GINNY BROWN 37	1:15.90 PAM DRAFTS 35
1:16.23 DEBRA RIKER 30	5:19.57 ELAINE FONG 35	40.43 LISA WILLIAMS 35	1:16.77 MARY HAMILTON 38
1:16.82 ROSAMARIA MEYER 30	5:21.24 SARAH EICHER 35	40.74 BETH ESTEL 36	1:16.86 CATHY KOHN 39
200 M. I.M. WOMEN 30-34	5:21.47 MELISSA BEATY 35	40.95 LYNN HUNT 36	1:17.18 KAREN FARNSWORTH 36
2:27.11 SANDY NEILSON 87	5:21.59 JOANNE BOWSER 37	41.18 KIM CROUNSE 35	1:17.92 VERONICA HIBBEN 36
2:35.46 NANCY MITCHELL 31	800 M. FREE WOMEN 35-39	41.35 MARCIA S DUGGER 36	1:18.16 KRISSEY MACCUDY 39
2:35.85 ANDREA DEVUONO 30	9:46.95 LAURA VAL 87	100 M. BRST WOMEN 35-39	1:18.44 MARILYN A S FINK 37
2:37.44 SUE HAUGH 31	9:49.00 KATHY BRANCH 35	1:16.70 LESLIE OSBORNE 89	200 M. I.M. WOMEN 35-39
2:41.89 LESLIE COOPER 32	10:08.54 KAREN FARNSWORTH 36	1:22.41 CATHY CARR L WEST 38	2:31.39 S. NIELSON-BELL 92
2:43.30 DEBRA RIKER 30	10:39.56 ELAINE FINCHAM 36	1:25.21 CAROLE SHIGAKI 37	2:31.39 S.NEILSON-BELL 36
2:44.32 ROSAMARIA MEYER 30	10:43.89 MARCIA S DUGGER 36	1:26.85 PAM DRAFTS 35	2:40.92 DONNA NEARY 37
2:46.53 PATTY STARKS 32	10:52.90 CAROLE SHIGAKI 37	1:28.94 NANCY EHRKE 39	2:41.03 CATHY CARR L WEST 38
2:46.92 JENNIFER BARRY 31	10:53.06 SARAH EICHER 35	1:29.50 KIM CROUNSE 35	2:41.98 D. OGIER-POLLARD 39
2:47.01 JUDI NORTON 34	11:13.47 PAT MANKIN 37	1:30.20 LISA WILLIAMS 35	2:43.99 JOAN PFINGSGRAFF 38
2:52.61 PAT ROHNER 32	11:29.44 SHARON MAYO 35	1:30.85 CATHY SCHULBACH 39	2:44.69 CAROLE SHIGAKI 37
400 M. I.M. WOMEN 30-34	11:40.20 NANCY FIEBERLING 36	1:31.45 ELAINE FONG 35	2:48.42 MELISSA BEATY 35
5:13.84 BONNIE RHODES 91	11:43.68 LOUISE C STACY 37	1:31.63 DANI D WHEELER 36	2:50.38 CYNTHIA MALTRY 37
5:25.45 NANCY MITCHELL 31	1500 M. FREE WOMEN 35-39	1:32.80 TERI HENDRYX 39	2:52.50 ELAINE FONG 35
5:30.58 ANDREA DEVUONO 30	18:27.71 LAURA VAL 87	200 M. BRST WOMEN 35-39	2:52.62 JOANNE WAINWRIGHT 37
5:34.88 SUE HAUGH 31	22:26.44 J.SANTILLANO 39	1:16.70 LESLIE OSBORNE 89	400 M. I.M. WOMEN 35-39
5:47.13 DEBRA RIKER 30	23:38.91 KATY HULL 35	2:57.32 CATHY CARR L WEST 38	5:30.35 KAREN FARNSWORTH 91
5:50.61 MARGUERITE MEYER 33	24:56.17 CAROLYN A VILES 35	3:09.13 KAREN FARNSWORTH 36	5:31.96 MARY CURL 35
5:54.46 SUSAN RICHMOND 31	25:00.54 SHERYL L WALKER 36	3:10.35 PAM DRAFTS 35	5:34.27 KAREN FARNSWORTH 36
6:05.51 BARBARA WITTE 31	25:41.83 SUSAN MURRAY 36	3:14.71 JEAN L TRACY 38	5:41.92 D. OGIER-POLLARD 39
6:22.14 MO CHAMBERS 34	26:06.00 DEBBIE UTZ 39	3:19.88 ELAINE FONG 35	5:43.73 MARY ANN STEVENS 39
6:31.37 LISA K STRAMPACH 33	27:13.53 SUSAN ALT 37	3:21.52 TERI HENDRYX 39	5:57.72 MELISSA BEATY 35
6:51.64 KAREN FORTOUL 31	27:36.83 NANCY K. KIERNAN 38	3:22.13 KIM CROUNSE 35	5:59.72 CATHY KOHN 39
*****	27:58.16 VICTORIA TRACY 36	3:22.39 ELIN ZANDER 37	6:07.44 JOANNE E. BOWSER 38
50 M. FREE WOMEN 35-39	28:36.47 ANN BRUCE 37	3:23.46 SUSAN K WISTI 37	6:15.11 PAT MANKIN 37

TOP TEN SHORT COURSE METERS

6:17.55 CATHY SCHULBACH 39	24:45.94 HELEN MURPHY 43	3:32.35 SANDRA CATHEY 43	6:36.79 CATHERINE BROOKS 43
6:30.09 ELIN ZANDER 37	26:44.88 MERCEDAH JENSEN 41	3:37.04 KATHERINE K BASS 40	*****
*****	50 M. BACK WOMEN 40-44	3:37.16 ANN LYTLE 44	50 M. FREE WOMEN 45-49
50 M. FREE WOMEN 40-44	34.63 BONNIE ADAIR 92	50 M. FLY WOMEN 40-44	30.05 NANCY RIDOUT 89
28.25 LAURA VAL 92	34.63 BONNIE ADAIR 92	30.18 LAURA VAL 92	30.34 SHARON WISE 45
28.25 LAURA B VAL 40	35.88 JAN PESAVENTO 41	30.18 LAURA B VAL 40	30.81 JUDY REED 47
28.69 C.STONSIFER 40	38.70 CHRISTINE SCHROE 43	32.09 BONNIE ADAIR 40	30.92 CAROLYN F BOAK 47
29.07 BONNIE ADAIR 40	39.77 PATRICE HIRR 42	33.26 C.STONSIFER 40	31.10 DIANA TODD 49
30.57 D. OGIER-POLLARD 40	39.91 C.SCHROEDER 42	33.54 BARBARA G DUNBAR 43	31.38 LUCY JOHNSON 45
30.89 LESLIE MC GREGOR 40	40.06 SUSAN BEHLER 41	34.44 JUDY LEE 42	31.69 LINDA MC HENRY 45
32.10 CAROLYN M CRAVEN 41	40.29 CATHERINE FITCH 40	34.66 LESLIE MC GREGOR 40	32.50 SALLY A DILLON 46
32.20 MARCIA BARRY 44	40.34 JERIANNE DONNELLY 42	34.96 SHERRY PUTHOFF 44	32.68 JEAN HENDERSON 46
32.25 R.BRITTINGHAM 41	40.88 MARCIA BARRY 44	35.22 D.OGIER-POLLARD 40	33.43 ARLENE PROEBSTING 49
33.00 CAROL GUNDERSON 44	41.33 SUSAN J CASE 43	35.66 R.BRITTINGHAM 41	34.03 JEANNIE MITCHELL 46
33.37 KATHERINE GREGORY 40	100 M. BACK WOMEN 40-44	35.82 VIRGINIA LANGMUIR 40	100 M. FREE WOMEN 45-49
100 M. FREE WOMEN 40-44	1:10.94 LAURA VAL 92	100 M. FLY WOMEN 40-44	1:06.64 SHARON WISE 92
1:01.15 LAURA VAL 92	1:10.94 LAURA B VAL 40	1:07.59 LAURA VAL 92	1:06.64 SHARON WISE 45
1:01.15 LAURA B VAL 40	1:16.69 JAN PESAVENTO 41	1:07.59 LAURA B VAL 40	1:08.57 CAROLYN F BOAK 47
1:03.90 BONNIE ADAIR 40	1:23.40 CHRISTINE SCHROE 43	1:10.39 BONNIE ADAIR 40	1:09.41 JUDY REED 47
1:07.07 C.STONSIFER 40	1:24.14 SHERRY PUTHOFF 44	1:12.41 BARBARA G DUNBAR 43	1:09.70 DIANA TODD 49
1:08.01 CELESTE MILLER 42	1:25.59 KATHRINE CASEY 43	1:18.28 SHERRY PUTHOFF 44	1:10.87 MARCY BULLOCK 48
1:08.12 BARBARA G DUNBAR 43	1:26.07 MARCIA BARRY 44	1:18.32 JUDY LEE 42	1:13.04 JEANNIE MITCHELL 46
1:10.88 ANN LYTLE 44	1:26.30 GWEN DEELY 42	1:23.61 CHRIS ZIMMET 44	1:14.25 JEAN HENDERSON 46
1:10.97 LESLIE MC GREGOR 40	1:27.25 LESLIE MC GREGOR 40	1:24.45 COLLEEN MOORE 42	1:14.35 SALLY A DILLON 46
1:11.40 GWEN DEELY 42	1:27.90 SUSAN J CASE 43	1:27.16 KRISTINA V KING 44	1:14.98 TRUDY ASHWORTH 45
1:11.84 CAROLYN M CRAVEN 41	1:28.48 SUSAN BEHLER 41	1:27.86 KATHRINE CASEY 43	1:15.56 SANDI ROUSSEAU 45
1:13.98 MARCIA BARRY 44	200 M. BACK WOMEN 40-44	1:31.80 NANCY VAN AST 41	200 M. FREE WOMEN 45-49
200 M. FREE WOMEN 40-44	2:38.40 LAURA VAL 92	200 M. FLY WOMEN 40-44	2:28.69 ARDETH MUELLER 87
2:14.32 LAURA VAL 92	2:38.40 LAURA B VAL 40	2:32.19 BARBARA DUNBAR 89	2:35.56 CAROLYN F BOAK 47
2:14.32 LAURA B VAL 40	3:00.73 SHERRY PUTHOFF 44	2:35.17 BARBARA G DUNBAR 43	2:38.12 LUCY JOHNSON 45
2:20.34 BARBARA G DUNBAR 43	3:00.81 ANDREA HAINES 44	3:07.95 CHRIS ZIMMET 44	2:38.81 DIANA TODD 49
2:20.71 D.OGIER-POLLARD 40	3:01.46 KATHRINE CASEY 44	3:16.16 SUZANNE RAGUE 42	2:41.66 KRISTINA V KING 45
2:33.77 ANN LYTLE 44	3:04.34 SUSAN BEHLER 41	3:16.89 BARBARA H LARSEN 44	2:43.87 JUDY REED 47
2:34.13 GWEN DEELY 42	3:08.68 SUSAN J CASE 43	3:28.18 CATHERINE BROOKS 43	2:48.87 TRUDY ASHWORTH 45
2:37.08 MARCIA BARRY 44	3:08.91 CHRISTINE SCHROE 43	3:33.77 JANE ALPERT 44	2:50.44 GINGER PIERSON 46
2:39.23 CAROLYN M CRAVEN 41	3:10.39 CHRIS ZIMMET 44	5:33.24 CAROL A HALL 44	2:51.12 RUTH BENNETT 45
2:40.24 KATHRINE CASEY 44	3:10.95 SUZY REIERSON 40	100 M. 1.M. WOMEN 40-44	2:56.04 KATHY CONTE 45
2:41.16 LAURA CALWELL 42	3:12.74 BARBARA H LARSEN 44	1:11.65 LAURA VAL 92	2:56.73 VICKI BUCCINO 46
2:41.35 COLLEEN MOORE 42	50 M. BRST WOMEN 40-44	1:11.65 LAURA B VAL 40	400 M. FREE WOMEN 45-49
400 M. FREE WOMEN 40-44	37.79 GAYLE BENTY 92	1:13.09 BONNIE ADAIR 40	5:08.62 ARDETH MUELLER 90
4:50.68 BARBARA DUNBAR 92	37.79 GAYLE BENTY 40	1:15.25 D.OGIER-POLLARD 40	5:32.67 SALLY A DILLON 46
4:50.68 BARBARA G DUNBAR 43	40.28 JAN PESAVENTO 41	1:16.18 C.STONSIFER 40	5:35.17 KRISTINA V KING 45
4:56.55 D.OGIER-POLLARD 40	41.35 KATHRINE CASEY 44	1:18.18 BARBARA G DUNBAR 43	5:42.16 LUCY JOHNSON 45
5:13.79 CELESTE MILLER 42	42.28 BONNIE ADAIR 40	1:19.48 JAN PESAVENTO 41	5:53.15 MARY POHLMANN 46
5:19.13 GWEN DEELY 42	43.45 SALLY BRUNSON 43	1:20.43 CELESTE MILLER 42	6:02.50 VICKI BUCCINO 46
5:29.98 MARCIA BARRY 44	44.21 MARCIA BARRY 44	1:20.57 SHERRY PUTHOFF 44	6:06.56 PAT MALEY 49
5:33.27 ANN LYTLE 44	44.98 SUSAN ZAVALKO 42	1:21.89 JANET ZANN 42	6:09.53 NANCY KIRKENDALL 49
5:38.18 LAURA CALWELL 42	45.81 JUDY GILLIES 44	1:23.31 GWEN DEELY 42	6:26.45 LINDA TEPE 45
5:39.26 GAIL GREENWOOD 40	46.31 GWEN DEELY 42	200 M. 1.M. WOMEN 40-44	6:30.07 EDITH JACOBSEN 45
5:52.00 CHRIS ZIMMET 44	46.50 KATHERINE GREGORY 40	2:33.89 LAURA VAL 92	6:39.46 JENNIFER PARKS 49
6:00.04 CATHERINE BROOKS 43	100 M. BRST WOMEN 40-44	2:33.89 LAURA B VAL 40	800 M. FREE WOMEN 45-49
800 M. FREE WOMEN 40-44	1:22.19 GAYLE BENTY 92	2:39.21 BONNIE ADAIR 40	11:04.43 JANE KATZ 91
10:04.16 BARBARA DUNBAR 91	1:22.19 GAYLE BENTY 40	2:40.55 D.OGIER-POLLARD 40	11:30.32 KRISTINA V KING 45
10:13.31 BARBARA G DUNBAR 43	1:29.00 JAN PESAVENTO 41	2:47.30 BARBARA G DUNBAR 43	11:38.16 MARCY BULLOCK 48
11:25.23 GAIL GREENWOOD 40	1:31.88 STEPHANIE WALSH 43	2:51.33 JAN PESAVENTO 41	11:47.68 ANN SVANSON 46
11:31.47 KRISTINA V KING 44	1:33.25 KATHRINE CASEY 44	2:51.73 CELESTE MILLER 42	12:06.30 MARY POHLMANN 47
11:53.43 LAURA CALWELL 42	1:35.21 NANETTE STRINGER 40	2:54.23 KATHRINE CASEY 43	12:14.12 B.EDELMAIER 46
11:57.65 COLLEEN MOORE 42	1:37.46 DAWN OBRECHT 43	2:54.73 STEPHANIE WALSH 43	12:39.31 JAN M PLESNER 46
12:01.30 DIANE LETENDRE 41	1:38.11 MARGARET ANDERSON 40	2:55.25 SHERRY PUTHOFF 44	12:40.87 VICKI BUCCINO 46
12:24.03 JUDY GILLIES 44	1:38.33 MARCIA BARRY 44	2:58.21 JUDY LEE 42	12:41.31 PAT MALEY 49
12:37.71 ANDREA HAINES 44	1:38.64 JUDY GILLIES 44	400 M. 1.M. WOMEN 40-44	12:46.98 BETSY VOLOSHEN 45
12:48.03 PHYLLIS SPRINGER 43	1:39.21 SUSAN ZAVALKO 42	5:32.53 LAURA VAL 92	12:47.57 PAMELA HIMSTREET 48
12:51.79 MARTHA DEMSON 40	200 M. BRST WOMEN 40-44	5:32.53 LAURA B VAL 40	1500 M. FREE WOMEN 45-49
1500 M. FREE WOMEN 40-44	2:54.12 GAYLE BENTY 92	5:41.78 D.OGIER-POLLARD 40	22:06.73 ANN SVANSON 91
19:00.81 BARBARA DUNBAR 90	2:54.12 GAYLE BENTY 40	5:42.16 BONNIE ADAIR 40	23:13.88 MARY POHLMANN 46
19:13.97 BARBARA G DUNBAR 43	3:10.74 BARBARA G DUNBAR 43	5:43.27 BARBARA G DUNBAR 43	23:16.06 CAROLYN KENT 46
21:06.41 MARCIA BARRY 44	3:16.87 JAN PESAVENTO 41	6:17.68 C.STONSIFER 40	23:37.92 BETSY VOLOSHEN 45
21:38.17 GAIL GREENWOOD 40	3:21.09 LESLIE MC GREGOR 40	6:21.73 JAN PESAVENTO 41	24:20.67 VICKI BUCCINO 46
22:57.92 DIANE LETENDRE 41	3:24.12 KATHRINE CASEY 44	6:25.34 JANET ZANN 42	26:35.09 BETTY HANSEN 46
22:59.62 CAROLYN M CRAVEN 41	3:26.39 CATHERINE BROOKS 43	6:27.03 KATHRINE CASEY 44	26:56.28 HEIDI BORSTLER 45
23:46.98 SANDRA CATHEY 43	3:29.07 SUSAN J CASE 43	6:36.03 GWEN DEELY 42	27:01.20 LOIS GOODMAN 45

TOP TEN SHORT COURSE METERS

27:07.89 JANE ALPERT 45	3:47.78 MARILYN J BLISS 46	9:03.09 K.VANDENBRULLE 47	32:53.73 KAREN FADY 50
27:11.72 FREDERICKA RAPP 48	3:51.80 BETTY HANSEN 46	*****	50 M. BACK WOMEN 50-54
27:51.00 CRISTINA ALVARES 45	3:59.46 SANDY MCCOY 48	50 M. FREE WOMEN 50-54	37.59 BETSY JORDAN 91
50 M. BACK WOMEN 45-49	4:00.68 NANCY KRANPITZ 47	30.48 NANCY RIDOUT 92	42.69 JUDY DECKER 50
37.29 BETTY BENNETT 89	50 M. FLY WOMEN 45-49	30.48 NANCY J RIDOUT 50	43.53 CEIL BLACKWELL 52
37.32 JEANNIE MITCHELL 46	33.17 SHARON WISE 92	35.56 MARY ANDERSON 50	44.83 SUSAN RITTENHOUSE 54
39.16 MARY POHLMANN 47	33.17 SHARON WISE 45	36.80 BETTY DUGAN 51	46.07 ROBERTA BOBERSKI 51
39.34 LUCY JOHNSON 45	33.43 DIANA TODD 49	37.33 CEIL BLACKWELL 52	46.85 M.E. BERNHART 51
39.81 JUDY REED 47	33.56 LUCY JOHNSON 45	37.43 MARGIE HEINEMAN 54	47.21 ANN MCDONNELL 54
40.09 GINGER L PIERSON 46	35.05 JUDY REED 47	38.65 SUSAN RITTENHOUSE 54	48.87 SUSAN SPRINGER 54
40.26 LINDA MC HENRY 45	35.91 SHERRY PUTOFF 45	38.79 LOUISE MURRAY 51	49.13 MARILYN A RAMEY 51
41.25 B.EDELMAIER 45	36.45 BARBARA HOELLEN 48	39.01 ANN MCDONNELL 53	49.25 M.R VALDERHAUG 50
41.72 BARBARA HOELLEN 48	36.53 SANDI ROUSSEAU 45	39.30 SUSAN SPRINGER 54	49.44 KAREN FORFAR 54
41.98 LINDA TEPE 45	36.77 CAROLYN KENT 46	39.69 ALICE JONES 54	100 M. BACK WOMEN 50-54
42.21 NANCY KIRKENDALL 49	37.04 GINGER PIERSON 46	100 M. FREE WOMEN 50-54	1:20.50 ARDETH MUELLER 91
100 M. BACK WOMEN 45-49	37.60 LINDA MC HENRY 45	1:06.41 ARDETH MUELLER 91	1:25.90 SARAH L BROUGHER 50
1:20.40 JEANNIE MITCHELL 92	100 M. FLY WOMEN 45-49	1:10.74 NANCY J RIDOUT 50	1:29.90 NANCY J RIDOUT 50
1:20.40 JEANNIE MITCHELL 46	1:17.96 DIANA TODD 92	1:20.33 MARY ANDERSON 50	1:31.53 JUDY DECKER 50
1:23.22 MARY POHLMANN 47	1:17.96 DIANA TODD 49	1:23.40 JUDY DECKER 50	1:37.02 CEIL BLACKWELL 52
1:26.01 GINGER PIERSON 46	1:19.36 LUCY JOHNSON 45	1:24.32 LOUISE MURRAY 51	1:42.17 ANN MCDONNELL 54
1:26.30 LUCY JOHNSON 45	1:19.49 CAROLYN F BOAK 47	1:24.36 CEIL BLACKWELL 52	1:43.27 SUSAN SPRINGER 54
1:28.04 LINDA MC HENRY 45	1:21.20 SHERRY PUTOFF 45	1:24.74 SUSAN SPRINGER 54	1:47.21 MARILYN RAMEY 52
1:31.06 NANCY KIRKENDALL 49	1:26.10 GINGER PIERSON 46	1:25.25 BETTY DUGAN 51	1:47.91 BARBARA BOWER 54
1:33.28 JENNIFER PARKS 49	1:27.87 SANDI ROUSSEAU 45	1:26.06 ANN MCDONNELL 54	1:49.94 SYLVIA GLENN 54
1:36.07 CAROLYN KENT 47	1:29.15 LINDA MC HENRY 45	1:28.06 MARY PUDIM 52	1:56.15 M.R VALDERHAUG 50
1:36.60 LINDA TEPE 45	1:29.28 KRISTINA V KING 45	1:30.59 BARBARA BOWER 54	200 M. BACK WOMEN 50-54
1:37.49 FREDERICKA RAPP 48	1:33.81 JANE ALPERT 45	200 M. FREE WOMEN 50-54	2:48.88 ARDETH MUELLER 91
200 M. BACK WOMEN 45-49	1:33.98 LINDA TEPE 45	2:28.85 ARDETH MUELLER 91	3:01.92 SARAH L BROUGHER 50
2:56.06 BETTY BENNETT 89	200 M. FLY WOMEN 45-49	2:37.89 NANCY J RIDOUT 50	3:15.40 JUDY DECKER 50
2:57.67 JEANNIE MITCHELL 46	2:37.88 ARDETH MUELLER 87	2:47.38 MARY ANDERSON 50	3:27.65 CEIL BLACKWELL 52
2:59.28 MARY POHLMANN 47	3:06.99 LUCY JOHNSON 45	3:03.38 JUDY DECKER 50	3:37.67 MARYLOU SCHULZ 52
3:04.67 GINGER L PIERSON 46	3:12.64 GINGER PIERSON 46	3:05.20 M.E. BERNHART 51	3:45.66 SUSAN SPRINGER 54
3:04.76 CAROLYN F BOAK 47	3:15.97 CAROLYN KENT 46	3:05.96 MARY CLAPP 52	3:47.04 SYLVIA GLENN 54
3:16.78 J MURPHY-SHERMAN 47	3:19.34 ELAINE BROMWICH 49	3:10.08 MARGIE HEINEMAN 54	3:49.39 MARY CLAPP 52
3:24.33 EDITH JACOBSEN 45	3:23.99 B.EDELMAIER 46	3:11.35 ANN MCDONNELL 53	3:51.25 MARILYN RAMEY 52
3:26.05 FREDERICKA RAPP 48	3:27.32 EDITH JACOBSEN 45	3:12.00 SUSAN SPRINGER 54	3:52.42 KAREN FORFAR 54
3:27.75 LINDA TEPE 45	3:30.96 MARY POHLMANN 46	3:15.59 CAROL SING 51	3:54.02 BARBARA BOWER 54
3:37.76 VICKI BUCCINO 46	3:43.61 SUSAN ROSENTHALL 45	3:16.00 BARBARA BOWER 54	50 M. BRST WOMEN 50-54
3:39.69 BETTY HANSEN 46	4:24.33 KITTY KESSLER 49	400 M. FREE WOMEN 50-54	40.51 JOANN LEILICH 90
50 M. BRST WOMEN 45-49	100 M. I.M. WOMEN 45-49	5:12.43 ARDETH MUELLER 91	41.82 JOANN LEILICH 53
38.67 ELAINE BROMWICH 90	1:14.41 ARDETH MUELLER 87	5:35.41 NANCY J RIDOUT 50	44.71 JUDY DECKER 50
40.25 GINGER PIERSON 46	1:17.98 CAROLYN F BOAK 47	5:48.02 MARY ANDERSON 50	45.26 MARGIT JEBE 54
40.81 ELAINE BROMWICH 49	1:19.40 SHARON WISE 45	6:16.55 JUDY DECKER 50	47.13 MARGIE HEINEMAN 54
41.87 DIANA TODD 49	1:21.48 SHERRY PUTOFF 45	6:31.83 ANN MCDONNELL 54	47.80 CYNTHIA AMERICAN 50
43.38 TRUDY ASHWORTH 45	1:21.49 DIANA TODD 49	6:32.84 SUSAN SPRINGER 54	47.91 ALICE JONES 54
44.45 CANDY CHRISTENSON 45	1:23.41 GINGER PIERSON 46	6:36.69 ROBERTA BOBERSKI 51	50.33 JEAN L PRITCHETT 52
45.60 LUCY JOHNSON 45	1:24.62 JEANNIE MITCHELL 46	6:39.17 BETTY DUGAN 51	50.68 MARILYN A RAMEY 51
45.64 KATHY CONTE 45	1:26.41 ELAINE BROMWICH 49	6:40.83 CAROL SING 51	51.46 MARY MEAD 50
46.21 LINDA TEPE 45	1:26.74 LUCY JOHNSON 45	6:50.37 PRUDENCE HALL 53	52.78 ROBERTA BOBERSKI 51
46.45 CAROLYN KENT 47	1:26.86 SALLY A DILLON 46	6:55.84 BARBARA SMITH 50	100 M. BRST WOMEN 50-54
46.70 PAMELA HIMSTREET 48	1:27.56 JEAN HENDERSON 46	800 M. FREE WOMEN 50-54	1:28.51 JOANN LEILICH 89
100 M. BRST WOMEN 45-49	200 M. I.M. WOMEN 45-49	11:20.21 NANCY RIDOUT 92	1:30.10 JOANN LEILICH 53
1:23.49 CAROLYN BOAK 92	2:42.88 ARDETH MUELLER 87	11:20.21 NANCY J RIDOUT 50	1:38.63 MARGIT JEBE 54
1:23.49 CAROLYN F BOAK 47	2:52.65 CAROLYN F BOAK 47	11:55.67 MARY ANDERSON 50	1:45.84 MARGIE HEINEMAN 54
1:24.87 GINGER PIERSON 46	2:58.00 GINGER PIERSON 46	14:00.35 CAROL SING 51	1:49.27 MARILYN RAMEY 52
1:29.03 ELAINE BROMWICH 49	2:58.64 SHERRY PUTOFF 45	14:14.88 SYLVIA GLENN 54	1:50.56 JEAN L PRITCHETT 52
1:36.51 J MURPHY-SHERMAN 47	3:09.70 ANN SVANSON 46	14:30.79 ALISON HEINS 51	1:51.59 ALISON HEINS 51
1:37.90 TRUDY ASHWORTH 45	3:11.57 ELAINE BROMWICH 49	14:33.10 BARBARA BOWER 54	1:53.90 M.R VALDERHAUG 50
1:40.79 GAYLE M BONDURANT 45	3:13.52 MARY POHLMANN 46	14:50.18 INGRID STINE 53	1:54.25 MARY MEAD 50
1:43.21 LINDA TEPE 45	3:22.16 LINDA TEPE 45	14:51.67 JANET SHARP 50	1:54.89 SANDY STEER 53
1:45.21 BETTY HANSEN 46	3:23.31 PAMELA HIMSTREET 48	15:30.36 MARILYN RAMEY 52	1:56.05 SUSAN SPRINGER 54
1:47.06 CHRIS GILLIGAN 49	3:36.14 PAT MALEY 49	16:24.15 P.STRICKLAND 52	200 M. BRST WOMEN 50-54
1:47.69 CAROLYN KENT 47	3:39.16 SUSAN ROSENTHALL 45	1500 M. FREE WOMEN 50-54	3:11.20 JOANN LEILICH 89
200 M. BRST WOMEN 45-49	400 M. I.M. WOMEN 45-49	21:44.35 LAVELLE STAINOFF 87	3:15.68 JOANN LEILICH 53
3:04.75 GINGER PIERSON 91	5:55.35 ARDETH MUELLER 87	24:43.19 JUDY DECKER 50	3:46.93 DAWN STROUPE 54
3:07.22 GINGER PIERSON 46	6:00.40 CAROLYN F BOAK 47	26:09.53 CAROL SING 51	3:49.24 ALICE JONES 54
3:12.63 ELAINE BROMWICH 49	6:30.66 GINGER L PIERSON 46	27:16.38 SYLVIA GLENN 54	3:55.51 MARILYN RAMEY 52
3:29.33 TRUDY ASHWORTH 45	6:44.06 EDITH JACOBSEN 45	27:30.70 BARBARA BOWER 54	3:58.73 JEAN L PRITCHETT 52
3:32.27 PAMELA HIMSTREET 48	6:45.89 ELAINE BROMWICH 49	28:12.21 MARY MEAD 50	4:07.44 MARY MEAD 50
3:39.24 LINDA TEPE 45	6:52.34 MARY POHLMANN 46	30:55.42 P.STRICKLAND 52	4:07.65 M.FARNSWORTH 52
3:39.72 EDITH JACOBSEN 45	7:41.38 PAT MALEY 49	31:52.60 KAREN FORFAR 54	4:08.26 M.VALDERHAUG 51

TOP TEN SHORT COURSE METERS

4:11.76 SYLVIA GLENN 54	38.49 SALLY NEWELL 55	48.47 PATRICIA TULLMAN 55	47.20 IDA SMITH 58
4:11.79 JEANNINE E OLSON 52	39.75 NANCY WAITE 57	49.50 BARBARA ZAREMSKI 55	47.58 BARBARA CALLISON 59
50 M. FLY WOMEN 50-54	40.63 DONNA RYMAN 55	49.89 ELIZ MOORE 58	51.39 JANET MOELLER 57
36.43 JAYNE LAMBKE 89	100 M. FREE WOMEN 55-59	50.30 PHILLIS WILSON 58	53.53 BARBARA ZAREMSKI 55
34.37 SARAH L BROUGHNER 50NV	1:11.63 JAYNE BRUNER 89	100 M. BACK WOMEN 55-59	56.26 ELIZ MOORE 58
36.64 NANCY J RIDOUT 50	1:18.12 BETSY JORDAN 55	1:21.90 BETSY JORDAN 92	100 M. FLY WOMEN 55-59
44.06 SUSAN RITTENHOUSE 54	1:19.60 RONNIE KAMPHAUSEN 58	1:21.90 BETSY T JORDAN 55	1:27.95 BETSY JORDAN 92
45.24 MARY PUDIM 52	1:21.82 ANN J KAY 58	1:34.42 BEVERLY MYERS 56	1:27.95 BETSY T JORDAN 55
46.54 ANN MCDONNELL 54	1:23.18 BEVERLY MYERS 56	1:35.56 ANN CHAMP 57	1:41.41 ANNE MCGUIRE 58
46.85 CYNTHIA AMERICAN 50	1:24.97 BARBARA ZAREMSKI 55	1:35.69 ANN J KAY 58	1:46.59 BARBARA CALLISON 59
47.94 ALICE JONES 54	1:27.94 PATRICIA TULLMAN 55	1:42.79 BARBARA ZAREMSKI 55	1:46.64 YOLANDE H HOSS 59
48.64 MARY ANN MCCLAIN 51	1:29.67 MARY ANN STONE 59	1:45.51 KATHY THEIS 59	1:51.46 DOT J WERRY 56
49.52 JEANNINE E OLSON 52	1:30.97 SALLY NEWELL 55	1:46.04 BARBARA CALLISON 59	1:52.81 BARBARA ZAREMSKI 55
49.77 LOUISE MURRAY 51	1:31.08 E.MOORE 58	1:46.79 PATRICIA TULLMAN 55	2:04.91 JANET MOELLER 57
100 M. FLY WOMEN 50-54	1:31.26 BARBARA CALLISON 59	1:50.75 E.MOORE 58	2:06.83 ELIZ MOORE 58
1:12.66 ARDETH MUELLER 91	200 M. FREE WOMEN 55-59	1:51.14 BARBARA ALLEN 59	2:19.92 JOYCE VOIT 58
1:21.87 NANCY J RIDOUT 50	2:40.27 LAVELLE STAINOFF 89	200 M. BACK WOMEN 55-59	200 M. FLY WOMEN 55-59
1:50.37 DAWN STROUPE 54	2:47.17 BETSY JORDAN 55	3:00.66 BETSY JORDAN 92	3:20.43 GAIL ROPER 86
1:52.60 MARY ANN MCCLAIN 50	2:49.47 RONNIE KAMPHAUSEN 57	3:00.66 BETSY T JORDAN 55	3:29.85 BETSY JORDAN 55
1:56.32 MARY MEAD 50	3:05.92 BARBARA ZAREMSKI 55	3:17.89 LAVELLE STAINOFF 59	3:34.77 ANNE MCGUIRE 58
1:56.73 SUSAN SPRINGER 54	3:13.31 ANNE MCGUIRE 58	3:24.40 ANN CHAMP 57	3:55.02 BARBARA ZAREMSKI 55
2:00.73 JEANNINE E OLSON 52	3:15.10 PATRICIA TULLMAN 55	3:26.49 BEVERLY MYERS 56	4:03.42 DOT J WERRY 56
2:06.74 PATRICIA ARNOLD 53	3:20.15 DONNA MONROE 59	3:27.02 RONNIE KAMPHAUSEN 57	4:44.41 JANET MOELLER 57
200 M. FLY WOMEN 50-54	3:23.42 MARY ANN STONE 59	3:37.73 BARBARA ZAREMSKI 55	100 M. I.M. WOMEN 55-59
3:11.83 SPERRY RADEMAKER 89	3:24.40 BARBARA CALLISON 59	3:49.41 KATHY THEIS 59	1:24.19 JAYNE BRUNER 89
4:12.03 MARYLOU SCHULZ 52	3:24.92 DONNA RYMAN 55	3:55.68 ELIZ MOORE 58	1:26.19 BETSY JORDAN 55
4:14.45 JEANNINE E OLSON 52	3:26.60 ELIZ MOORE 58	3:55.74 PATRICIA TULLMAN 55	1:30.83 BEVERLY MYERS 56
4:39.72 MARY MEAD 50	400 M. FREE WOMEN 55-59	4:01.66 BARBARA ALLEN 59	1:34.09 RONNIE KAMPHAUSEN 58
5:40.30 KAREN FORFAR 54	5:34.32 LAVELLE STAINOFF 89	50 M. BRST WOMEN 55-59	1:36.58 BARBARA CALLISON 59
100 M. I.M. WOMEN 50-54	5:54.84 BETSY T JORDAN 55	40.69 JAYNE BRUNER 91	1:37.27 DORIS KLITZKE 57
1:18.05 ARDETH MUELLER 91	6:00.79 RONNIE KAMPHAUSEN 58	45.94 BETSY JORDAN 55	1:38.01 BARBARA ZAREMSKI 55
1:22.60 NANCY J RIDOUT 50	6:33.58 BARBARA ZAREMSKI 55	46.14 ANNE MCGUIRE 58	1:38.85 ANNE MCGUIRE 58
1:31.33 JUDY DECKER 50	6:38.67 ANNE MCGUIRE 58	46.42 SALLY NEWELL 55	1:40.94 CAROL REINKE 55
1:33.54 CEIL BLACKWELL 52	6:55.37 E.MOORE 58	46.77 CAROL REINKE 55	1:43.84 DOTTIE BANTA 55
1:39.76 ROBERTA BOBERSKI 51	6:55.54 DONNA MONROE 59	47.10 BEVERLY MYERS 56	1:45.65 SALLY NEWELL 55
1:43.20 LOUISE MURRAY 51	6:56.39 BARBARA CALLISON 59	48.23 LAVELLE STAINOFF 59	200 M. I.M. WOMEN 55-59
1:43.49 ALICE JONES 54	7:34.21 SUE STRALEY 55	48.49 IDA SMITH 58	3:05.53 BETSY JORDAN 92
1:45.98 BETTY DUGAN 51	7:34.87 BARBARA ALLEN 59	48.71 ANN CHAMP 57	3:05.53 BETSY T JORDAN 55
1:46.56 CAROL SING 51	7:38.11 SUSAN BOND 55	49.54 DORIS KLITZKE 57	3:17.26 BEVERLY MYERS 56
1:49.02 PATRICIA ARNOLD 53	800 M. FREE WOMEN 55-59	51.06 DONNA RYMAN 55	3:19.50 RONNIE KAMPHAUSEN 57
1:49.72 MARY ANN MCCLAIN 50	11:29.99 LAVELLE STAINOFF 89	100 M. BRST WOMEN 55-59	3:30.54 ANNE MCGUIRE 58
200 M. I.M. WOMEN 50-54	11:30.90 LAVELLE STAINOFF 59	1:30.31 JAYNE BRUNER 91	3:33.51 BARBARA CALLISON 59
3:04.26 NANCY RIDOUT 92	12:12.28 RONNIE KAMPHAUSEN 58	1:40.92 ANNE MCGUIRE 58	3:38.12 BARBARA ZAREMSKI 55
3:00.87 SARAH L BROUGHNER 50NV	12:12.51 BETSY JORDAN 55	1:41.74 BEVERLY MYERS 56	3:42.02 DOT J WERRY 56
3:04.26 NANCY J RIDOUT 50	12:19.01 SUSAN BRADLEY-COX 55	1:42.05 BETSY JORDAN 55	4:02.34 PHILLIS WILSON 58
3:34.32 MARGIE HEINEMAN 54	13:21.63 BARBARA ZAREMSKI 55	1:43.50 CAROL REINKE 55	4:27.25 JOYCE VOIT 58
3:36.26 MARY PUDIM 52	13:30.13 ANNE MCGUIRE 58	1:44.74 LAVELLE STAINOFF 59	400 M. I.M. WOMEN 55-59
3:40.80 DAWN STROUPE 54	14:03.45 DONNA MONROE 59	1:45.18 YOLANDE H HOSS 59	6:39.90 BETSY JORDAN 92
3:41.10 SUSAN SPRINGER 54	14:24.15 ELIZ MOORE 58	1:45.99 SALLY NEWELL 55	6:39.90 BETSY T JORDAN 55
3:43.20 MARYLOU SCHULZ 52	14:43.60 BARBARA CALLISON 59	1:48.04 IDA SMITH 58	7:01.70 RONNIE KAMPHAUSEN 58
3:48.15 CAROL SING 51	14:43.88 KATHY K ISERI 59	1:48.41 BARBARA ZAREMSKI 55	7:16.88 ANNE MCGUIRE 58
3:48.97 JEANNINE E OLSON 52	1500 M. FREE WOMEN 55-59	1:48.91 J.G. PIPER 55	7:33.19 BARBARA ZAREMSKI 55
3:50.00 SYLVIA GLENN 54	21:35.84 LAVELLE STAINOFF 89	200 M. BRST WOMEN 55-59	7:50.06 DOT J WERRY 56
400 M. I.M. WOMEN 50-54	22:33.81 LAVELLE STAINOFF 59	3:23.08 JAYNE BRUNER 91	7:54.88 BARBARA CALLISON 59
5:56.24 ARDETH MUELLER 91	23:03.43 SUSAN BRADLEY-COX 55	3:35.83 LAVELLE STAINOFF 59	8:13.90 E.MOORE 58
7:45.29 MARYLOU SCHULZ 52	23:05.59 RONNIE KAMPHAUSEN 58	3:35.94 ANNE MCGUIRE 58	9:57.71 CYNTHIA H ROSIK 59
7:55.42 DAWN STROUPE 54	23:44.52 BETSY T JORDAN 55	3:39.37 BETSY T JORDAN 55	*****
7:56.51 CAROL SING 51	25:35.49 ANNE MCGUIRE 58	3:47.33 BARBARA ZAREMSKI 55	50 M. FREE WOMEN 60-64
7:59.89 SUSAN SPRINGER 54	25:49.95 BARBARA ZAREMSKI 55	3:50.41 CAROL REINKE 55	35.33 ANNE ADAMS 89
8:07.48 JEANNINE E OLSON 52	27:17.56 ELIZ MOORE 58	3:52.50 J.G. PIPER 55	34.42 MARGARET TIMMONS 62NV
9:37.38 MARGIE SIMSIC 52	30:06.86 SUSAN BOND 55	3:58.72 IDA SMITH 58	39.03 DENA MANN 60
*****	30:48.09 NANCY WAITE 58	4:02.51 SANDRA KREMER 56	39.26 GAY COLLINS 62
50 M. FREE WOMEN 55-59	34:53.55 PATRICIA BAXTED 55	4:07.06 MARY ANN STONE 59	39.62 LIBBY HEATH 63
31.83 JAYNE BRUNER 89	50 M. BACK WOMEN 55-59	4:43.76 JOHANNA MOORE 57	39.65 JACQUELINE DUNLOP 61
34.39 BETSY JORDAN 55	37.92 BETSY JORDAN 92	50 M. FLY WOMEN 55-59	40.33 BETTY RUSS 64
35.70 JEANNE LITTLE 55	37.92 BETSY T JORDAN 55	37.50 BETSY JORDAN 92	41.26 CAROLYN DERR 64
36.60 ANN J KAY 58	42.99 BEVERLY MYERS 56	37.50 BETSY T JORDAN 55	41.34 CAROL FERGUSON 61
37.56 BARBARA ZAREMSKI 55	44.32 ANN CHAMP 57	40.94 RONNIE KAMPHAUSEN 57	41.86 JOAN CAMPBELL 61
37.84 BEVERLY MYERS 56	44.76 DORIS KLITZKE 57	42.56 BEVERLY MYERS 56	42.29 ELLEN VOSE 62
37.93 DORIS KLITZKE 57	44.90 ANN J KAY 58	43.99 DORIS KLITZKE 57	100 M. FREE WOMEN 60-64
38.00 BARBARA CALLISON 59	47.21 SUZANNE E ROBBINS 58	44.42 ANNE MCGUIRE 58	1:17.99 CLARA WALKER 89

TOP TEN SHORT COURSE METERS

1:19.44 MARGARET TIMMONS	62	1:43.86 ANN M PISCIOTTA	61	1:48.14 JOAN E ALEXANDER	60	3:08.25 JUNE KRAUSER	66
1:24.24 DENA MANN	60	1:44.25 MARIA YUNGEL	60	1:55.77 BETTY RUSS	64	3:14.26 DELLA M SEHORN	65
1:29.48 ANN M PISCIOTTA	61	1:49.03 BETTY RUSS	64	2:00.31 MALCHIA OLSHAN	61	3:19.50 MARGERY MEYER	69
1:30.48 CAROLYN DERR	64	1:50.95 MARY JANE MULLINS	60	2:02.85 GAY COLLINS	62	3:24.03 FLORENCE CARR	67
1:33.23 BETTY RUSS	64	1:51.35 JACQUELINE DUNLOP	61	2:05.32 MARY JANE MULLINS	60	3:27.95 GRACE ALTUS	68
1:35.65 ELLEN VOSE	62	1:52.42 GAY COLLINS	62	2:06.93 BOBBI I TURCOTTE	64	3:31.79 RUTH BAAR	69
1:35.72 GAY COLLINS	62	1:57.48 BOBBI I TURCOTTE	64	200 M. FLY WOMEN 60-64		3:36.51 LOIS NOCHMAN	67
1:37.73 BOBBI I TURCOTTE	64	1:58.46 JESSICA BENNETT	60	3:32.29 JUNE KRAUSER	90	3:38.59 ELLA CARMICHAEL	67
1:41.65 DORTHEA SCRAK	61	2:00.11 B.L'ESPERANCE	60	3:51.01 ANN PISCIOTTA	61	400 M. FREE WOMEN 65-69	
1:42.23 LILLY KRON	60	200 M. BACK WOMEN 60-64		4:19.24 MALCHIA OLSHAN	61	6:13.42 CLARA WALKER	92
200 M. FREE WOMEN 60-64		3:16.14 DORIS STEADMAN	88	4:45.67 MARIAN WOLLE	64	6:13.42 CLARA WALKER	66
2:50.94 CLARA WALKER	89	3:58.40 MARY J MULLINS	60	100 M. I.M. WOMEN 60-64		6:24.24 JUNE KRAUSER	66
3:03.80 DENA MANN	60	4:14.92 GAY COLLINS	62	1:27.50 CLARA WALKER	89	6:35.49 PETEY MH. SMITH	67
3:10.79 ANN M PISCIOTTA	61	4:16.45 MARIAN WOLLE	64	1:37.54 ANN M PISCIOTTA	61	7:02.43 FLORENCE CARR	67
3:20.95 BETTY RUSS	64	4:16.81 JOAN CAMPBELL	61	1:41.33 ELOISE DANTO	64	7:11.28 GRACE ALTUS	68
3:23.73 MALCHIA OLSHAN	61	4:18.84 B.L'ESPERANCE	60	1:43.96 CYNTHIA BRUCE	64	7:22.98 LOIS NOCHMAN	67
3:24.85 JOAN E ALEXANDER	60	4:36.81 BETTY GRIFFIN	61	1:46.35 LILLY KRON	60	7:44.95 SUZANNE GRAHAM	65
3:25.44 PENNY TAYLOR	63	4:46.97 JEANE GRUENDER	64	1:47.70 CAROL FERGUSON	61	7:49.76 BOBBI I TURCOTTE	65
3:25.78 ELLEN VOSE	62	5:04.41 BARBARA EBERLE	63	1:48.13 JACQUELINE DUNLOP	61	7:51.50 CLARA SOTAK	68
3:33.83 GAY COLLINS	62	5:42.72 MARY BOAZ	63	1:48.62 JOAN E ALEXANDER	60	8:14.21 PEGGY SANBORN	65
3:40.77 DORTHEA SCRAK	61	7:13.93 JOYCE CONSTANCE	60	1:52.73 GAY COLLINS	62	800 M. FREE WOMEN 65-69	
3:44.45 RUTH AARON	63	50 M. BRST WOMEN 60-64		2:00.28 HEDY ESPOSITO	64	12:35.26 CLARA WALKER	92
400 M. FREE WOMEN 60-64		45.39 CAROL TAYLOR	89	2:06.50 CHERYL CORBETT	60	12:35.26 CLARA WALKER	66
6:02.43 CLARA WALKER	87	47.20 ANN M PISCIOTTA	61	200 M. I.M. WOMEN 60-64		13:14.35 JUNE KRAUSER	66
6:58.12 MALCHIA OLSHAN	61	47.74 PENNY TAYLOR	63	3:14.28 CLARA WALKER	90	14:24.97 MARGERY MEYER	69
7:10.09 ELLEN VOSE	62	49.89 CAROL FERGUSON	61	3:30.42 ANN M PISCIOTTA	61	14:50.89 GRACE ALTUS	68
7:31.24 BOBBI I TURCOTTE	64	50.22 IRMA I REIMER	60	3:47.18 JOAN E ALEXANDER	60	15:07.53 LOIS NOCHMAN	67
7:42.13 RUTH AARON	63	52.83 JACQUELINE DUNLOP	61	3:53.23 JACQUELINE DUNLOP	61	16:44.71 GLORIA MARIENTHAL	67
7:49.48 MARIAN WOLLE	64	53.88 JESSICA BENNETT	60	4:03.85 MALCHIA OLSHAN	61	16:52.18 MARJORIE NEWMAN	69
7:58.22 DORTHEA SCRAK	61	55.29 HEDY ESPOSITO	64	4:10.65 GAY COLLINS	62	17:52.83 NANCY REED	65
8:12.31 HEDY ESPOSITO	63	55.42 MARIA YUNGEL	60	4:15.62 JOAN CAMPBELL	61	1500 M. FREE WOMEN 65-69	
8:17.30 LOUISE KUTSCHER	62	59.13 ARTIE KENSINGER	60	4:16.32 MARIAN WOLLE	64	23:38.44 CLARA WALKER	92
8:26.25 CHERYL CORBETT	60	59.76 CHERYL CORBETT	60	4:17.17 MARY JANE MULLINS	61	23:38.44 CLARA WALKER	66
8:27.31 ETHEL AUTORINO	63	100 M. BRST WOMEN 60-64		4:17.26 BOBBI I TURCOTTE	64	24:47.77 JUNE KRAUSER	66
800 M. FREE WOMEN 60-64		1:37.78 ANN PISCIOTTA	92	4:23.36 RUTH AARON	63	27:46.69 GRACE ALTUS	68
12:21.67 CLARA WALKER	90	1:37.78 ANN M PISCIOTTA	61	400 M. I.M. WOMEN 60-64		28:50.08 LOIS NOCHMAN	67
13:36.22 ANN M PISCIOTTA	61	1:42.98 LILLY KRON	60	6:58.97 CLARA WALKER	91	31:12.45 CLARA SOTAK	68
14:27.60 MALCHIA OLSHAN	61	1:45.56 PENNY TAYLOR	63	7:26.97 ANN M PISCIOTTA	61	32:02.26 MARJORIE NEWMAN	69
14:42.68 ELLEN VOSE	62	1:47.53 CAROL FERGUSON	61	8:04.23 PENNY TAYLOR	63	33:16.88 NANCY REED	65
15:21.16 BOBBI I TURCOTTE	64	1:52.20 JOAN E ALEXANDER	60	8:16.56 MALCHIA OLSHAN	61	63:11.85 FRANCES GRAY	66
16:13.58 MARIAN WOLLE	64	1:55.49 JACQUELINE DUNLOP	61	8:45.49 MARY WOLLE	64	50 M. BACK WOMEN 65-69	
16:45.60 HEDY ESPOSITO	64	1:57.75 JOAN CAMPBELL	61	8:56.71 MARY J MULLINS	60	40.48 DORIS STEADMAN	89
17:12.22 MARY JANE MULLINS	61	2:04.52 JESSICA BENNETT	60	*****		44.45 DELLA M SEHORN	65
20:16.95 MARY BOAZ	63	2:06.44 HEDY ESPOSITO	64	50 M. FREE WOMEN 65-69		48.59 JEANNE MERRYMAN	69
20:32.52 JEANE GRUENDER	63	2:11.09 ARTIE KENSINGER	60	35.76 CLARA WALKER	91	48.72 JUNE KRAUSER	66
20:40.19 FRANCES HOLMES	64	200 M. BRST WOMEN 60-64		39.65 DELLA SEHORN	65	48.81 REGAN KENNER	68
1500 M. FREE WOMEN 60-64		3:36.01 ANN PISCIOTTA	91	40.35 MARGERY MEYER	69	49.46 M.J. AMSBARY	67
23:28.15 CLARA WALKER	90	3:37.68 ANN M PISCIOTTA	61	40.66 FLORENCE CARR	67	51.27 SHIRLEY ERICKSON	68
25:40.88 MARGARET TIMMONS	62	3:49.93 CAROL FERGUSON	61	40.91 JEANNE MERRYMAN	69	52.65 FLORENCE CARR	67
27:01.25 MALCHIA OLSHAN	61	3:52.36 PENNY TAYLOR	63	41.02 JUNE KRAUSER	66	54.91 NANCY REED	65
29:35.32 BOBBI I TURCOTTE	64	4:00.64 JOAN E ALEXANDER	60	41.50 ELLA CARMICHAEL	67	55.02 PEGGY SANBORN	65
31:19.14 MARIAN WOLLE	64	4:21.39 MALCHIA OLSHAN	61	41.52 RUTH BAAR	69	56.70 MINNA HAMNER	69
31:39.31 CHERYL CORBETT	60	4:28.85 HEDY ESPOSITO	64	41.65 LOIS NOCHMAN	67	100 M. BACK WOMEN 65-69	
32:11.72 MARY JANE MULLINS	61	4:33.48 MARIAN WOLLE	64	43.48 SUZANNE GRAHAM	65	1:30.41 DORIS STEADMAN	89
37:31.37 MARY WILLIAMS	60	4:38.07 BETTY KAKOS	61	45.35 GRACE ALTUS	68	1:41.57 DELLA M SEHORN	65
39:08.36 MARY BOAZ	63	5:55.34 BARBARA EBERLE	63	100 M. FREE WOMEN 65-69		1:45.01 JUNE KRAUSER	66
50 M. BACK WOMEN 60-64		50 M. FLY WOMEN 60-64		1:20.80 CLARA WALKER	91	1:45.27 MARGERY MEYER	69
39.60 CLARA WALKER	89	39.64 ANNE ADAMS	89	1:28.62 JUNE KRAUSER	66	1:45.76 REGAN KENNER	68
44.11 MARGARET TIMMONS	62	47.92 ANN M PISCIOTTA	61	1:30.24 MARGERY MEYER	69	1:47.65 PETEY MH. SMITH	67
44.50 CYNTHIA BRUCE	64	48.31 JOAN E ALEXANDER	60	1:34.80 FLORENCE CARR	67	1:48.06 JEANNE MERRYMAN	69
47.58 DENA MANN	60	48.50 PENNY TAYLOR	63	1:35.84 JEANNE MERRYMAN	69	1:50.95 M.J. AMSBARY	66
47.96 MARIA YUNGEL	60	51.03 GAY COLLINS	62	1:36.57 ELLA CARMICHAEL	67	1:56.21 PEGGY SANBORN	65
49.59 JESSICA BENNETT	60	52.46 CAROLYN DERR	64	1:38.19 SHIRLEY ERICKSON	68	1:57.13 BOBBI I TURCOTTE	65
50.46 ANN M PISCIOTTA	61	53.27 MARIA YUNGEL	60	1:39.34 LOIS NOCHMAN	67	2:05.18 MINNA HAMNER	69
51.00 GAY COLLINS	62	55.02 MALCHIA OLSHAN	61	1:39.39 GRACE ALTUS	68	200 M. BACK WOMEN 65-69	
52.04 JOAN CAMPBELL	61	57.48 MARY J MULLINS	60	1:39.54 SUZANNE GRAHAM	65	3:15.72 DORIS STEADMAN	89
52.62 IRMA I REIMER	60	1:01.42 CHERYL CORBETT	60	1:41.35 BOBBI I TURCOTTE	65	3:37.80 DELLA M SEHORN	65
52.71 BOBBI I TURCOTTE	64	1:02.74 HEDY ESPOSITO	63	200 M. FREE WOMEN 65-69		3:44.12 JUNE KRAUSER	66
100 M. BACK WOMEN 60-64		100 M. FLY WOMEN 60-64		3:03.63 PETEY SMITH	91	3:45.81 REGAN KENNER	68
1:29.13 CLARA WALKER	89	1:36.95 PAT DOTSON	87	3:03.72 CLARA WALKER	66	3:57.66 PETEY MH. SMITH	67
1:41.78 DENA MANN	60	1:42.83 ANN M PISCIOTTA	61	3:06.10 PETEY MH. SMITH	67	3:59.03 JEANNE MERRYMAN	69

TOP TEN SHORT COURSE METERS

4:03.94 SHIRLEY ERICKSON 68	1:49.37 FLORENCE CARR 67	8:16.22 MERLYN EWBANK 72	1:55.84 GERTRUD ZINT 87
4:04.11 LOIS NOCHMAN 67	1:53.11 ALICIA COLEMAN 67	8:19.06 MAURINE KORNFELD 70	2:10.73 JAE HOWELL 70
4:06.17 M.J. AMSBARY 67	1:56.52 SHIRLEY ERICKSON 68	8:26.29 SYLVIA HILL 71	2:13.01 PAULINE B STANGEL 70
4:08.41 PEGGY SANBORN 65	1:57.78 BETTY DUNN 66	8:35.73 ZADA W TAFT 73	2:14.06 RITA SIMONTON 74
4:12.70 BOBBI I TURCOTTE 65	1:59.72 NANCY L REED 65	800 M. FREE WOMEN 70-74	2:20.84 EDITH GLUSAC 73
50 M. BRST WOMEN 65-69	2:00.62 ELLA CARMICHAEL 67	14:29.66 MARGERY MEYER 92	2:20.85 AGOTA FROHS 71
47.39 BETTY CHRISTIAN 89	2:00.69 M.J. AMSBARY 67	14:29.66 MARGERY MEYER 70	2:21.61 MERLYN EWBANK 72
51.40 M.J. AMSBARY 67	200 M. I.M. WOMEN 65-69	15:32.42 RITA SIMONTON 74	2:23.72 ANNELIESE EIBL 71
51.69 ALICIA COLEMAN 67	3:18.77 CLARA WALKER 91	16:29.08 BILLIE BURRILL 71	2:29.63 MARIE KREIPE 73
51.73 REGAN KENNER 68	3:32.29 JUNE KRAUSER 66	16:54.54 NANCY PHILLIPS 71	2:36.13 PAT POIRE 70
52.53 JUNE KRAUSER 66	3:34.09 DELLA M SEHORN 65	17:39.94 BETTY KENDALL 72	2:40.80 LIBBY POOLE 72
53.54 FLORENCE CARR 67	3:55.95 LOIS NOCHMAN 67	21:03.00 MARIE KREIPE 72	200 M. BRST WOMEN 70-74
54.18 DELLA M SEHORN 65	4:01.83 FLORENCE CARR 67	22:11.66 ELFIE J STEVENIN 71	4:11.18 GERTRUD ZINT 87
55.95 LOIS NOCHMAN 67	4:29.67 JAE HOWELL 69	22:20.72 KATE BRAZIL 72	4:32.10 JAE HOWELL 70
57.96 JAE HOWELL 69	4:32.16 GRACE ALTUS 68	26:30.00 MAUREEN SCHMAHL 70	4:40.75 RITA SIMONTON 74
59.91 MINNA HAMNER 69	5:00.62 MARJORIE NEWMAN 69	31:16.27 E.SCHNEIDER 72	4:45.78 MERLYN EWBANK 72
1:00.11 MAUDENE SCHULZE 68	400 M. I.M. WOMEN 65-69	1500 M. FREE WOMEN 70-74	5:05.62 ANNELIESE EIBL 71
100 M. BRST WOMEN 65-69	7:19.42 JUNE KRAUSER 91	28:29.85 RITA SIMONTON 90	5:30.37 LIBBY POOLE 72
1:46.82 REGAN KENNER 90	7:26.98 JUNE KRAUSER 66	29:18.56 RITA SIMONTON 74	6:29.00 GERI BAYLESS 70
1:51.27 JUNE KRAUSER 66	7:33.72 DELLA M SEHORN 65	32:28.97 BILLIE BURRILL 71	7:34.79 FRANCES BELL 73
1:52.45 DELLA M SEHORN 65	8:21.63 LOIS NOCHMAN 67	35:41.04 JUNE B. REYNOLDS 70	50 M. FLY WOMEN 70-74
1:53.02 ALICIA COLEMAN 67	8:29.36 ALICIA COLEMAN 66	44:05.60 ELFIE J STEVENIN 70	51.96 GERTRUD ZINT 89
1:54.07 REGAN KENNER 68	8:41.43 FLORENCE CARR 67	50 M. BACK WOMEN 70-74	52.49 DIANA M SILVA 70
1:54.69 M.J. AMSBARY 67	9:05.22 JAE HOWELL 69	47.22 MARGERY MEYER 92	54.27 DOT DONNELLY 70
2:03.97 NAOMI IVERSON 67	9:28.62 GRACE ALTUS 68	47.22 MARGERY MEYER 70	58.71 BARDI DENDY 71
2:04.12 JAE HOWELL 69	10:36.31 MARJORIE NEWMAN 69	51.79 NANCY PHILLIPS 71	59.19 SUE MCGAUGHEY 70
2:10.09 LOIS NOCHMAN 67	*****	52.79 JOSEPHINE PALLIN 72	1:01.27 SYLVIA HILL 71
2:11.64 MINNA HAMNER 69	50 M. FREE WOMEN 70-74	52.99 DIANA M SILVA 70	1:04.38 MERLYN EWBANK 72
2:12.39 DORIS PETERS 69	39.13 DOROTHY DONNELLY 92	53.23 H.HUGGINS 70	1:05.32 ZADA W TAFT 73
200 M. BRST WOMEN 65-69	39.13 DOT DONNELLY 70	54.00 ELSIE STEVENS 70	1:06.90 MAURINE KORNFELD 70
3:48.71 REGAN KENNER 90	39.27 MARGERY MEYER 70	56.32 BARDI DENDY 71	1:08.21 FRAN ZEUMER 72
3:56.53 JUNE KRAUSER 66	42.96 SUSANNA MARVEL 72	57.41 DOT DONNELLY 70	1:08.99 LIBBY POOLE 72
4:00.66 REGAN KENNER 68	44.40 DIANA M SILVA 70	58.07 EDITH GLUSAC 73	100 M. FLY WOMEN 70-74
4:08.46 M.J. AMSBARY 67	45.15 NANCY PHILLIPS 71	58.46 MARY CULHANE 71	2:04.25 GERTRUD ZINT 88
4:09.42 DELLA M SEHORN 65	45.39 BARDI DENDY 71	100 M. BACK WOMEN 70-74	2:13.67 JAE HOWELL 70
4:32.87 LOIS NOCHMAN 67	47.38 ELSIE STEVENS 70	1:51.64 Y. FRISCHHERTZ 90	2:19.89 MERLYN EWBANK 72
4:39.12 JAE HOWELL 69	48.46 MAURINE KORNFELD 70	1:54.34 DIANA M SILVA 70	2:29.25 ZADA W TAFT 73
4:57.92 MAUDENE SCHULZE 68	48.74 BETTY KENDALL 72	1:59.08 NANCY PHILLIPS 71	2:42.56 ROSEMARY KARIKER 73
5:00.72 ELEANOR BROWN 66	48.98 SUE MCGAUGHEY 70	2:01.54 H.HUGGINS 70	3:12.24 ELFIE J STEVENIN 70
5:21.40 CAROLYN LOIZEAUX 68	100 M. FREE WOMEN 70-74	2:06.34 ELSIE STEVENS 70	4:23.54 FRANCES BELL 73
5:24.87 NAOMI IVERSON 67	1:29.76 MARGERY MEYER 92	2:06.82 JOSEPHINE PALLIN 72	200 M. FLY WOMEN 70-74
50 M. FLY WOMEN 65-69	1:29.76 MARGERY MEYER 70	2:08.18 IRENE SANDAHL 70	4:36.96 MAXINE MERLINO 86
43.93 FLORENCE CARR 90	1:32.06 DOROTHY DONNELLY 70	2:12.05 ANNELIESE EIBL 71	4:40.95 JAE HOWELL 70
44.78 JUNE KRAUSER 66	1:38.60 SUSANNA MARVEL 72	2:12.49 MARY CULHANE 71	4:44.73 MERLYN EWBANK 72
45.89 DELLA M SEHORN 65	1:43.24 DIANA M SILVA 70	2:13.38 EDITH GLUSAC 73	4:59.80 JUNE B. REYNOLDS 70
49.27 LOIS NOCHMAN 67	1:47.85 NANCY PHILLIPS 71	2:14.21 JUNE B. REYNOLDS 70	5:57.69 ROSEMARY KARIKER 73
51.10 JEANNE MERRYMAN 69	1:48.25 BARDI DENDY 71	200 M. BACK WOMEN 70-74	6:42.39 ELFIE J STEVENIN 70
51.31 FLORENCE CARR 67	1:52.44 ELSIE STEVENS 70	3:56.72 Y. FRISCHHERTZ 87	8:56.82 FRANCES BELL 73
52.52 PETEY MH. SMITH 67	1:55.30 MARY WIXTED 70	4:08.34 DIANA M SILVA 70	100 M. I.M. WOMEN 70-74
52.84 ALICIA COLEMAN 66	1:55.77 JOSEPHINE PALLIN 72	4:13.05 NANCY PHILLIPS 71	1:50.32 GERTRUD ZINT 88
55.34 SHIRLEY ERICKSON 68	1:55.92 PATRICIA PREVETZ 71	4:13.72 MERLYN EWBANK 72	1:52.10 DOROTHY DONNELLY 70
58.24 GRACE ALTUS 68	200 M. FREE WOMEN 70-74	4:27.90 H.HUGGINS 70	2:06.84 BARDI DENDY 71
1:00.75 JAE HOWELL 69	3:18.51 MARGERY MEYER 92	4:34.49 AGNES ZYDINSKY 70	2:09.32 H.HUGGINS 70
100 M. FLY WOMEN 65-69	3:18.51 MARGERY MEYER 70	4:42.32 MAURINE KORNFELD 70	2:10.17 SUE MCGAUGHEY 70
1:38.74 JUNE KRAUSER 91	3:27.01 DOT DONNELLY 70	4:51.50 IRENE SANDAHL 70	2:11.63 MARY WIXTED 70
1:40.66 JUNE KRAUSER 66	3:41.04 RITA SIMONTON 74	4:51.59 ZADA W TAFT 73	2:16.38 MARY CULHANE 71
1:43.14 DELLA M SEHORN 65	3:53.32 MAURINE KORNFELD 70	5:06.83 LUELLA HEATH 72	2:19.48 FRAN ZEUMER 72
1:55.54 LOIS NOCHMAN 67	4:02.01 BILLIE BURRILL 71	5:42.10 RUTH WUNDERLICH 73	2:22.30 AGOTA FROHS 71
2:00.86 ALICIA COLEMAN 67	4:03.55 MERLYN EWBANK 72	50 M. BRST WOMEN 70-74	2:23.72 BETTY SPEARS 74
2:09.49 JAE HOWELL 69	4:05.01 SYLVIA HILL 71	50.95 GERTRUD ZINT 87	2:27.16 MAURINE KORNFELD 70
200 M. FLY WOMEN 65-69	4:06.85 H.HUGGINS 70	55.29 JAE HOWELL 70	200 M. I.M. WOMEN 70-74
3:36.03 JUNE KRAUSER 91	4:07.93 BETTY KENDALL 72	59.31 PAULINE B STANGEL 70	4:01.01 DOROTHY DONNELLY 92
3:38.65 JUNE KRAUSER 66	4:09.60 ELSIE STEVENS 70	1:00.58 BARDI DENDY 71	4:01.01 DOT DONNELLY 70
4:09.50 LOIS NOCHMAN 67	400 M. FREE WOMEN 70-74	1:02.14 IRENE SANDAHL 70	4:19.68 MERLYN EWBANK 72
4:47.93 JAE HOWELL 69	6:54.54 MARGERY MEYER 92	1:03.67 MARY CULHANE 71	4:22.48 DIANA M SILVA 70
6:07.95 MARJORIE NEWMAN 69	6:54.54 MARGERY MEYER 70	1:03.94 EDITH GLUSAC 73	4:26.21 RITA SIMONTON 74
100 M. I.M. WOMEN 65-69	7:30.49 RITA SIMONTON 74	1:04.73 AGOTA FROHS 71	4:32.52 NANCY PHILLIPS 71
1:37.84 FLORENCE CARR 90	7:50.70 SUSANNA MARVEL 72	1:04.83 SUE MCGAUGHEY 70	4:40.00 SYLVIA HILL 71
1:39.86 JUNE KRAUSER 66	7:56.27 DOT DONNELLY 70	1:05.14 PAT POIRE 70	4:51.62 H.HUGGINS 70
1:41.33 DELLA M SEHORN 65	8:09.40 NANCY PHILLIPS 71	1:08.03 MARIE KREIPE 73	5:09.97 LIBBY POOLE 72
1:49.22 LOIS NOCHMAN 67	8:11.14 BILLIE BURRILL 71	100 M. BRST WOMEN 70-74	5:25.43 ROSEMARY KARIKER 73

TOP TEN SHORT COURSE METERS

5:34.13 MARIE KREIPE 73	44:44.50 RUTH HAMILTON 78	59.09 KAY SCHIMPF 92	8:48.24 MAXINE MERLINO 92
400 M. I.M. WOMEN 70-74	50:50.07 MILLIE HUPP 76	59.09 KAY SCHIMPF 75	8:48.24 MAXINE MERLINO 80
8:34.79 RITA SIMONTON 88	50 M. BACK WOMEN 75-79	1:03.63 SALLY JOY 75	12:02.15 EDITH HENDRY 81
9:12.25 JAE HOWELL 70	52.11 MARIE WICKLUN 89	1:06.73 JEAN D DURSTON 78	12:02.43 ELLEN TAIT 82
9:12.85 MERLYN EWBANK 72	52.96 ANNE WALKER 76	1:12.78 ANNE WILDER 78	800 M. FREE WOMEN 80-84
9:37.99 JUNE B. REYNOLDS 70	56.81 MARIE WICKLUN 77	1:15.41 HELEN ROUMASSET 77	18:14.52 MAXINE MERLINO 92
10:19.17 ZADA W TAFT 73	57.20 Y.FRISCHHERTZ 75	1:28.39 RUTH HAMILTON 78	18:14.52 MAXINE MERLINO 80
11:39.90 ROSEMARY KARIKER 73	1:02.22 KAY SCHIMPF 75	1:47.23 BUZ CATLIN 78	23:33.10 ELLEN TAIT 82
13:07.79 ELFIE J STEVENIN 71	1:07.02 SALLY JOY 75	1:49.56 ANNE LUFT 75	25:42.97 EDITH HENDRY 81
*****	1:08.54 MEME HABICH 77	2:32.63 BARB T HAVERCAMP 76	1500 M. FREE WOMEN 80-84
50 M. FREE WOMEN 75-79	1:08.78 MARY LATHRAM 76	100 M. FLY WOMEN 75-79	35:07.91 MAXINE MERLINO 92
43.98 MAXINE MERLINO 88	1:11.15 HELEN ROUMASSET 77	2:12.17 MAXINE MERLINO 88	35:07.91 MAXINE MERLINO 80
44.37 AUDREY ETIENNE 75	1:13.19 BETH HANKS 75	2:22.20 KAY SCHIMPF 75	50 M. BACK WOMEN 80-84
48.05 ANNE WALKER 76	1:16.31 BUZ CATLIN 78	2:29.98 JEAN D DURSTON 78	59.47 MAXINE MERLINO 92
48.94 Y.FRISCHHERTZ 75	100 M. BACK WOMEN 75-79	2:53.31 ANNE WILDER 78	59.47 MAXINE MERLINO 80
49.11 KAY SCHIMPF 75	1:53.00 ANNE WALKER 91	3:25.16 HELENA W HOFFMAN 76	1:10.03 MADELEINE MILLER 82
53.40 SALLY JOY 75	1:54.70 ANNE WALKER 76	200 M. FLY WOMEN 75-79	1:11.92 EDITH HENDRY 81
57.86 MEME HABICH 77	2:01.94 MARIE WICKLUN 77	4:48.50 MAXINE MERLINO 88	1:16.90 HELEN OFFENHAUSER 80
59.13 HELEN ROUMASSET 77	2:04.44 Y.FRISCHHERTZ 75	5:07.94 JEAN D DURSTON 78	1:33.22 GERALDINE TURNER 81
1:02.04 AGNES ROMAYKO 77	2:11.27 KAY SCHIMPF 75	5:16.65 KAY SCHIMPF 75	2:13.04 RUBY ADAMSON 80
1:03.58 MARY LATHRAM 76	2:17.45 SALLY JOY 75	6:09.24 ANNE WILDER 78	100 M. BACK WOMEN 80-84
1:03.91 ANNE WILDER 78	2:29.64 MARY LATHRAM 76	7:27.02 HELENA W HOFFMAN 76	2:15.14 MAXINE MERLINO 92
100 M. FREE WOMEN 75-79	2:41.20 MEME HABICH 77	100 M. I.M. WOMEN 75-79	2:15.14 MAXINE O MERLINO 80
1:46.64 NANCY CLARK 90	2:46.76 GENEVA KAHRIS 78	2:00.07 MAXINE MERLINO 88	2:48.29 EDITH HENDRY 81
1:48.20 ANNE WALKER 76	2:55.18 BUZ CATLIN 78	2:10.19 KAY SCHIMPF 75	3:21.09 GERALDINE TURNER 81
1:48.86 AUDREY H ETIENNE 75	3:01.53 HILDA G BUEL 78	2:11.20 SALLY JOY 75	200 M. BACK WOMEN 80-84
1:53.98 Y.FRISCHHERTZ 75	200 M. BACK WOMEN 75-79	2:14.43 Y.FRISCHHERTZ 75	4:38.53 MAXINE MERLINO 92
1:55.12 MARIE WICKLUN 77	4:01.89 MARIE WICKLUN 89	2:20.13 JEAN D DURSTON 78	4:38.53 MAXINE MERLINO 80
1:59.30 KAY SCHIMPF 75	4:07.03 ANNE WALKER 76	2:33.62 HELEN ROUMASSET 77	5:28.37 MADELEINE MILLER 82
2:24.70 AGNES ROMAYKO 77	4:16.17 Y.FRISCHHERTZ 75	3:07.16 HELENA W HOFFMAN 76	6:20.27 EDITH HENDRY 81
2:25.28 MEME HABICH 77	4:21.22 MARIE WICKLUN 77	3:11.40 BUZ CATLIN 78	7:42.90 GERALDINE TURNER 81
2:25.65 GENEVA KAHRIS 78	4:45.19 KAY M. SCHIMPF 75	3:14.30 ANNE LUFT 75	50 M. BRST WOMEN 80-84
2:27.63 ALICE TIGHE 77	4:46.82 SALLY JOY 75	3:19.92 ALICE TIGHE 77	1:05.64 MAXINE MERLINO 92
2:28.47 FRANCES MORSE 75	5:18.34 MARY LATHRAM 76	3:47.14 MARY SIEBOLD 76	1:05.64 MAXINE MERLINO 80
200 M. FREE WOMEN 75-79	5:49.07 GENEVA KAHRIS 78	200 M. I.M. WOMEN 75-79	1:13.95 MADELEINE MILLER 82
3:51.23 AUDREY ETIENNE 92	6:48.27 HILDA G BUEL 78	4:17.89 MAXINE MERLINO 88	1:39.72 HELEN OFFENHAUSER 80
3:51.23 AUDREY H ETIENNE 75	6:53.06 MILLIE HUPP 76	4:39.49 KAY SCHIMPF 75	100 M. BRST WOMEN 80-84
4:03.84 Y.FRISCHHERTZ 75	7:19.74 RUTH HAMILTON 78	4:54.42 JEAN D DURSTON 78	2:21.80 MAXINE MERLINO 92
4:05.77 MARIE WICKLUN 77	50 M. BRST WOMEN 75-79	5:15.60 HELEN ROUMASSET 77	2:21.80 MAXINE MERLINO 80
4:07.92 KAY SCHIMPF 75	58.91 MAXINE MERLINO 88	5:50.56 ANNE WILDER 78	2:39.80 ELSA MATTILA 81
4:21.78 JEAN D DURSTON 78	1:00.56 KAY SCHIMPF 75	6:18.84 HILDA G BUEL 78	200 M. BRST WOMEN 80-84
4:44.55 HELEN ROUMASSET 77	1:09.37 AUDREY H ETIENNE 76	8:43.31 BARB T HAVERCAMP 76	5:00.63 MAXINE MERLINO 92
5:09.93 GENEVA KAHRIS 78	1:10.66 HELEN ROUMASSET 77	400 M. I.M. WOMEN 75-79	5:00.63 MAXINE MERLINO 80
5:11.96 AGNES ROMAYKO 77	1:11.85 JEAN D DURSTON 78	9:07.66 MAXINE MERLINO 88	5:48.03 ELSA MATTILA 81
5:28.77 RUTH RIDENOUR 77	1:20.80 BUZ CATLIN 78	9:51.97 KAY SCHIMPF 75	6:16.18 MADELEINE MILLER 82
5:36.01 SALLY RICKMAN 79	1:26.06 BETH HANKS 75	10:14.08 JEAN D DURSTON 78	50 M. FLY WOMEN 80-84
400 M. FREE WOMEN 75-79	1:27.07 ANNE WILDER 78	13:22.19 HELENA W HOFFMAN 76	1:05.04 MAXINE MERLINO 92
8:11.07 MAXINE MERLINO 88	1:47.02 ALICE TIGHE 76	13:39.28 HILDA G BUEL 78	1:05.04 MAXINE MERLINO 80
8:23.78 KAY SCHIMPF 75	1:47.02 SALLY RICKMAN 79	*****	1:41.76 MADELEINE MILLER 82
8:37.89 Y.FRISCHHERTZ 75	100 M. BRST WOMEN 75-79	50 M. FREE WOMEN 80-84	100 M. FLY WOMEN 80-84
8:43.71 JEAN D DURSTON 78	2:10.17 MAXINE MERLINO 88	48.76 JULIA DOLCE 89	2:30.84 MAXINE MERLINO 92
9:29.06 HELEN ROUMASSET 77	2:18.82 SALLY JOY 75	48.80 MAXINE MERLINO 80	2:30.84 MAXINE MERLINO 80
10:41.39 RUTH HAMILTON 78	2:20.88 KAY SCHIMPF 75	1:01.86 MADELEINE MILLER 82	200 M. FLY WOMEN 80-84
10:57.17 GENEVA KAHRIS 78	2:28.04 ANNE LUFT 75	1:06.61 ELLEN TAIT 82	5:22.65 MAXINE MERLINO 92
11:05.45 AGNES ROMAYKO 77	2:34.60 Y.FRISCHHERTZ 75	1:07.00 EDITH HENDRY 81	5:22.65 MAXINE O MERLINO 80
11:06.11 MARY LATHRAM 76	2:44.87 HELEN ROUMASSET 77	1:11.30 HELEN OFFENHAUSER 80	100 M. I.M. WOMEN 80-84
11:37.42 RUTH RIDENOUR 77	2:46.40 HILDA G BUEL 78	1:16.60 GERALDINE TURNER 81	2:07.52 MAXINE MERLINO 92
13:11.91 MILLIE HUPP 76	3:09.98 ANNE WILDER 78	1:49.38 ELIZABETH DZIADUS 81	2:07.52 MAXINE MERLINO 80
800 M. FREE WOMEN 75-79	3:43.09 ALICE TIGHE 77	1:53.32 RUBY ADAMSON 80	2:44.17 MADELEINE MILLER 82
16:20.48 AUDREY ETIENNE 92	3:53.41 RUTH HAMILTON 78	100 M. FREE WOMEN 80-84	2:58.02 HELEN OFFENHAUSER 80
16:20.48 AUDREY H ETIENNE 75	200 M. BRST WOMEN 75-79	1:54.23 JULIA DOLCE 89	4:00.15 GERALDINE TURNER 81
17:42.45 JEAN D DURSTON 78	4:35.24 MAXINE MERLINO 88	1:56.70 MAXINE O MERLINO 80	200 M. I.M. WOMEN 80-84
17:51.01 KAY SCHIMPF 75	4:50.27 KAY M. SCHIMPF 75	2:26.06 HELEN OFFENHAUSER 80	4:45.93 MAXINE MERLINO 92
18:24.00 Y.FRISCHHERTZ 75	5:24.77 SALLY JOY 75	2:31.91 ELLEN TAIT 82	4:45.93 MAXINE MERLINO 80
23:59.73 RUTH HAMILTON 78	5:27.44 JEAN D DURSTON 78	2:43.45 EDITH HENDRY 81	5:26.84 ELSA MATTILA 81
1500 M. FREE WOMEN 75-79	5:56.37 HELEN ROUMASSET 77	4:17.28 RUBY ADAMSON 80	400 M. I.M. WOMEN 80-84
33:53.33 MAXINE MERLINO 88	6:15.18 HILDA G BUEL 78	200 M. FREE WOMEN 80-84	9:50.43 MAXINE MERLINO 92
33:23.53 KAY M. SCHIMPF 75NV	6:35.33 ANNE WILDER 78	4:17.73 JULIA DOLCE 89	9:50.43 MAXINE MERLINO 80
34:59.36 Y.FRISCHHERTZ 75	6:50.98 HELENA W HOFFMAN 76	5:25.91 ELLEN TAIT 82	*****
42:57.60 GENEVA KAHRIS 78	10:30.52 MARY SIEBOLD 76	5:38.52 EDITH HENDRY 81	50 M. FREE WOMEN 85-89
44:32.00 ANNE WILDER 78	50 M. FLY WOMEN 75-79	400 M. FREE WOMEN 80-84	1:03.78 MARIAN MCKECHNIE 89

TOP TEN SHORT COURSE METERS

1:35.34 MARGARET C KEIL 86	2:07.01 MARK A LOPER 23	2:40.58 L J SCHMITT 24	3:21.71 L J SCHMITT 24
100 M. FREE WOMEN 85-89	2:08.70 TOM SAWYER 24	2:40.58 PETER VIOLA 23	100 M. I.M. M E N 19-24
3:01.15 ANNA BAUSCHER 89	2:11.58 MICHAEL BELL 23	2:45.56 BRANDON FLICKNER 19	1:00.93 GREG MACKEM 91
NO SWIMMERS	2:11.73 MICHAEL CHORBA 22	2:51.51 MICHAEL BRADY 23	1:03.92 MATT MAUSER 22
200 M. FREE WOMEN 85-89	2:14.20 ROBERT VALENTIN 22	3:00.28 JIM DRAUGHN 19	1:05.43 Y.HIRAYAMO 21
5:33.83 MARIAN MCKECHNIE 89	2:14.78 TODD LARKIN 24	3:00.87 TOM SCHARDT 24	1:06.54 CHRIS ERIKSON 20
NO SWIMMERS	2:17.00 MICHAEL BRADY 23	50 M. BRST M E N 19-24	1:06.57 TOM SAWYER 24
800 M. FREE WOMEN 85-89	2:17.73 QUANAH RIDENOUR 22	31.68 MIKE EWING 91	1:07.63 BRIAN ELLIS 24
24:05.34 MARIAN MCKECHNIE 89	2:18.34 CHRIS CABELL 24	33.55 STEVE U RAIFF 23	1:08.30 MICHAEL NOMURA 24
NO SWIMMERS	2:19.19 JEFF BARANY 24	34.28 J.MCKISSACK 23	1:08.38 TONY MEINDL 24
50 M. BACK WOMEN 85-89	400 M. FREE M E N 19-24	34.88 MATT MAUSER 22	1:08.94 STEWART NIXON 23
1:13.57 MARIAN MCKECHNIE 89	4:16.24 GREG MACKEM 91	34.88 THOMAS SAYLES 23	1:09.00 JOHN SWITTER 22
NO SWIMMERS	4:31.25 BRIAN M TIMMERMAN 21	35.36 JOHN SWITTER 22	1:09.13 STEPHAN SLOTA 23
100 M. BACK WOMEN 85-89	4:32.78 MARK A LOPER 23	35.39 Y.HIRAYAMO 21	200 M. I.M. M E N 19-24
2:52.17 ANNA BAUSCHER 89	4:45.70 ROBERT VALENTIN 22	36.70 ERIC PETERSON 24	2:14.07 GREG MACKEM 91
3:25.40 MARGARET C KEIL 86	4:48.86 MICHAEL BELL 23	36.72 BRIAN ELLIS 24	2:24.17 BRIAN M TIMMERMAN 21
200 M. BACK WOMEN 85-89	4:53.63 MICHAEL BRADY 23	36.83 MICHAEL JACKSON 22	2:30.52 MICHAEL BRADY 24
6:00.16 MARIAN MCKECHNIE 89	4:54.64 TODD LARKIN 24	37.03 ALBERT VAN DIJK 21	2:30.96 ROB MULLOY 23
NO SWIMMERS	5:03.01 WILLIAM ROBERTSON 22	100 M. BRST M E N 19-24	2:34.01 CHRIS CABELL 24
50 M. BRST WOMEN 85-89	5:03.45 KEN KOPPENHAVER 23	1:09.02 THOR ANDERSON 92	2:34.94 TONY MEINDL 24
1:37.05 KATHERINE PELTON 90	5:06.48 JEFF BARANY 24	1:09.02 THOR ANDERSON 24	2:35.90 R. GREGORY ALLEN 23
NO SWIMMERS	5:09.20 RICH DENAGEL 24	1:09.75 CHRIS ERIKSON 20	2:39.13 JEFF BARANY 24
100 M. BRST WOMEN 85-89	800 M. FREE M E N 19-24	1:13.45 TROY B HAIGHT 21	2:39.58 ERIC HARDEN 21
3:09.62 KATHERINE PELTON 90	8:52.70 MICHAEL COLLINS 89	1:14.70 STEVE U RAIFF 23	2:40.30 RICK DANIELSON 22
NO SWIMMERS	9:33.92 MARK A LOPER 23	1:15.63 THOMAS SAYLES 23	2:42.26 MARCO D SORANI 23
50 M. FLY WOMEN 85-89	9:59.13 ROBERT VALENTIN 22	1:15.83 CHRIS CABELL 24	400 M. I.M. M E N 19-24
1:24.53 KATHERINE PELTON 90	10:02.81 MICHAEL BELL 23	1:16.77 STEWART NIXON 23	4:45.83 GREG MACKEM 91
NO SWIMMERS	10:48.98 JEFF BARANY 24	1:16.91 STEPHAN SLOTA 23	4:42.48 RICHARD DREWELOW 23
100 M. FLY WOMEN 85-89	10:50.63 TODD WHITE 24	1:17.10 JIM BARTHOLOMEW 22	5:07.40 BRIAN M TIMMERMAN 21
3:29.58 KATHERINE PELTON 90	11:11.11 RICH DENAGEL 24	1:18.26 MICHAEL BRADY 24	5:13.49 SCOTT SHED 22
NO SWIMMERS	11:28.18 TOM SCHARDT 24	200 M. BRST M E N 19-24	5:29.28 ROBERT VALENTIN 22
200 M. FLY WOMEN 85-89	12:24.69 JASON CHANSLOR 21	2:36.23 MICHAEL COLLINS 89	6:09.36 RICH DENAGEL 24
7:15.07 KATHERINE PELTON 90	15:37.80 KYLE KORTEN 21	2:39.26 CHRIS ERIKSON 20	6:26.67 THOMAS SAYLES 23
NO SWIMMERS	1500 M. FREE M E N 19-24	2:45.70 STEVE U RAIFF 23	6:43.94 L J SCHMITT 24
100 M. I.M. WOMEN 85-89	17:03.17 MICHAEL COLLINS 89	2:46.74 STEWART NIXON 23	*****
3:00.23 KATHERINE PELTON 90	18:44.40 ROBERT VALENTIN 22	2:47.20 R. GREGORY ALLEN 23	50 M. FREE M E N 25-29
NO SWIMMERS	20:27.22 JON LUFF 24	2:48.51 THOMAS SAYLES 23	23.16 ROBERT PEEL 91
200 M. I.M. WOMEN 85-89	21:38.34 RICH DENAGEL 24	2:51.30 CHRIS CABELL 24	24.76 BERT BERGEN 25
9:49.36 ANNA BAUSCHER 89	21:53.49 JUSTIN DORE 22	2:54.14 ROBERT VALENTIN 22	24.99 CHUCK PONTHER 29
NO SWIMMERS	23:22.59 JASON CHANSLOR 21	3:01.53 MICHAEL JACKSON 22	25.09 MICHAEL CREASER 25
400 M. I.M. WOMEN 85-89	26:33.81 ERIC PETERSON 24	3:57.40 L J SCHMITT 24	25.30 JEREMY PECORA 25
15:34.06 KATHERINE PELTON 91	50 M. BACK M E N 19-24	4:08.34 KYLE KORTEN 21	25.32 MARK WHITESIDE 26
NO SWIMMERS	29.62 KIRK CLEAR 91	50 M. FLY M E N 19-24	25.39 GERRY RODRIGUES 29
*****	30.13 MICHAEL BELL 23	26.94 JEFFREY RODDIN 92	25.39 ALAN GREENWOOD 26
*****	30.16 EUGENE M O'KEEFE 24	26.94 JEFFREY RODDIN 23	25.53 SEBASTIAN MOLL 28
50 M. FREE M E N 19-24	31.11 TONY KREUTZJANS 19	27.80 Y.HIRAYAMO 21	25.69 ANDREW REID 25
24.62 RANDY SPROUT 89	31.54 ROB MULLOY 23	27.82 EDMUND DONALDSON 23	25.75 EMERIC MC DONALD 29
25.37 MICHAEL NOMURA 89	31.80 CHRIS ERIKSON 20	28.02 BRIAN ELLIS 24	100 M. FREE M E N 25-29
25.37 THOR ANDERSON 24	32.23 TONY MEINDL 24	28.99 STUART BARTON 24	52.29 MARK NOETZEL 90
25.46 Y.HIRAYAMO 21	32.36 STUART BARTON 24	29.08 EUGENE M O'KEEFE 24	54.42 BERT BERGEN 25
25.74 TOM SAWYER 24	32.51 TED ATWELL 23	29.15 MICHAEL BRADY 24	55.54 SEBASTIAN MOLL 28
25.85 J.KISSACK 23	33.30 L J SCHMITT 24	29.19 MATT MAUSER 22	56.04 JEREMY PECORA 25
25.98 MICHAEL BELL 23	33.35 CHRIS SPARKS 24	29.19 STEWART NIXON 23	56.70 ALAN GREENWOOD 26
25.99 MICHAEL CHORBA 22	100 M. BACK M E N 19-24	29.52 JOHN SWITTER 22	56.77 JOSEPH THIER 28
26.25 CHRIS ERIKSON 20	1:01.29 JEFFREY RODDIN 92	100 M. FLY M E N 19-24	57.43 CHARLIE MATTHEWS 27
26.36 BRIAN ELLIS 24	1:01.29 JEFFREY RODDIN 23	58.41 JEFFREY RODDIN 92	57.50 DARREN OELLIEN 27
26.38 BRIAN M TIMMERMAN 21	1:01.48 RICHARD DREWELOW 23	58.41 JEFFREY RODDIN 23	57.73 ANDREW REID 25
100 M. FREE M E N 19-24	1:03.75 MATTHEW HUNT 24	1:04.80 BRIAN ELLIS 24	57.97 JOHN JEWELL 28
54.21 GREG MACKEM 91	1:06.32 MICHAEL BELL 23	1:04.85 EDMUND DONALDSON 23	58.11 MARK KOTHE 26
55.80 MATTHEW HUNT 24	1:07.87 ROB MULLOY 23	1:05.07 BRIAN M TIMMERMAN 21	200 M. FREE M E N 25-29
56.41 MICHAEL CHORBA 22	1:08.61 PETER VIOLA 23	1:05.14 WILLIAM ROBERTSON 22	1:54.00 BRAD WELLS 89
57.15 MARK A LOPER 23	1:08.84 TONY MEINDL 24	1:06.87 STEWART NIXON 23	2:04.15 CHRIS NIELSEN 28
58.63 CHRIS ERIKSON 20	1:11.32 TONY KREUTZJANS 19	1:07.09 STUART BARTON 24	2:05.15 HARDY LUSSIER 26
58.64 STEWART NIXON 23	1:11.74 L J SCHMITT 24	1:08.85 TONY MEINDL 24	2:06.24 BOB T HALL 27
58.72 MICHAEL BELL 23	1:12.70 BRANDON FLICKNER 19	1:09.07 TODD R BAILEY 22	2:06.66 JOHN JEWELL 28
59.65 CHRIS CABELL 24	200 M. BACK M E N 19-24	1:09.78 STEPHAN SLOTA 23	2:07.24 DARREN OELLIEN 27
59.69 PETER VIOLA 23	2:19.68 JOE HOESS 89	200 M. FLY M E N 19-24	2:07.36 JOSEPH THIER 28
59.76 JOHN SWITTER 22	2:31.12 MICHAEL BELL 23	2:13.68 RICHARD SHINNICK 90	2:08.56 JEREMY PECORA 25
1:00.27 TONY MEINDL 24	2:32.35 ROB MULLOY 23	2:38.74 MICHAEL BRADY 24	2:08.69 CHARLIE MATTHEWS 27
200 M. FREE M E N 19-24	2:36.93 TONY MEINDL 24	2:44.73 ROBERT VALENTIN 22	2:09.37 SCOTT SOUTHRON 28
2:01.20 MARK MACDONALD 91	2:40.57 JOHN EICKKORN 24	3:02.18 RICH DENAGEL 24	2:09.67 MARK WHITESIDE 26

TOP TEN SHORT COURSE METERS

400 M. FREE M E N 25-29	2:34.09 MICHAEL D COLLINS 26	3:02.25 JOEL ULMER 27	2:11.13 SCOTT GENKINGER 33
4:07.81 ROB MACKLE 92	50 M. BRST M E N 25-29	3:11.22 C.HULL 29	2:11.29 RON FINLEY 34
4:07.81 ROB J MACKLE 27	29.08 JOHN WALDMAN 89	100 M. I.M. M E N 25-29	2:12.39 TIM SMALE 33
4:27.00 CHRIS NIELSEN 28	30.11 GREG RHODENBAUGH 29	58.82 JAMES LILLEY 89	2:12.91 DARRELL RUCKER 34
4:28.54 RANDALL EICKHOFF 27	31.34 HENRY MATHER 27	1:02.56 BOB JENNINGS 26	400 M. FREE M E N 30-34
4:29.79 BOB T HALL 27	32.11 EVAN DAVIS 25	1:03.18 DANIEL BEATTY 25	4:13.61 DAN GOERKE 89
4:32.70 HARDY LUSSIER 26	33.25 JOHN STENROOS 28	1:04.80 CHRIS NIELSEN 28	4:19.10 STEVEN FISHER 30
4:35.26 STUART CROMATY 28	33.29 BRIAN HERBELIN 27	1:04.86 DUFFY CUTLER 28	4:30.20 BRIAN JOHNSON 31
4:35.31 BRIAN HERBELIN 27	33.60 TOM NORTHCUTT 27	1:04.93 BRIAN SHAW 28	4:33.82 ROBERT EBERWINE 32
4:35.31 DUFFY CUTLER 28	33.76 JEFF FINNELL 26	1:05.20 GERRY RODRIGUES 29	4:38.06 JEFF REILLY 31
4:36.43 DARREN OELLIEN 27	33.78 BARRY SHANE 28	1:05.52 TOM NORTHCUTT 27	4:39.25 DOUG J WILLIAMSON 31
4:37.65 JEREMY PECORA 25	34.09 DARIN PELLEGRINO 25	1:05.61 NICK COLAROSSI 29	4:47.81 JOHN G FAWCETT 34
800 M. FREE M E N 25-29	34.36 GERRY RODRIGUES 29	1:05.99 MATHEW J ROTH 25	4:49.55 CRAIG DALLAM 34
8:45.95 ROB MACKLE 92	100 M. BRST M E N 25-29	1:06.30 SEBASTIAN MOLL 28	4:50.10 WAYDE MULHERN 32
8:45.95 ROB J MACKLE 27	1:05.09 JOHN WALDMAN 89	200 M. I.M. M E N 25-29	4:52.57 DON HANIGAN 31
9:13.00 RANDALL EICKHOFF 27	1:08.17 JEFF LEE 25	2:12.28 CLAY BRITT 89	4:53.53 MICHAEL E JOHNSON 32
9:17.94 STUART CROMATY 28	1:08.31 BOB JENNINGS 26	2:17.31 BOB JENNINGS 26	800 M. FREE M E N 30-34
9:31.97 MATHEW J ROTH 25	1:09.17 HENRY MATHER 27	2:19.84 DANIEL BEATTY 25	8:34.26 DAN STEPHENSON 89
9:34.71 MICHAEL D COLLINS 26	1:11.00 HARDY LUSSIER 26	2:23.11 HARDY LUSSIER 26	8:48.49 STEVEN FISHER 30
9:42.63 DOUG SAPPER 29	1:11.19 BRIAN HERBELIN 27	2:23.16 BRIAN HERBELIN 27	9:03.20 ALLAN JAEGER 30
9:50.88 PAUL IKIOKA 28	1:11.33 EVAN DAVIS 25	2:23.30 BERT BERGEN 25	9:34.61 WILLIAM OLIVER 31
9:55.33 ANDREW NUSSBAUM 28	1:11.76 TOM NORTHCUTT 27	2:25.32 DON SKEOCH 29	9:38.30 ROBERT EBERWINE 32
9:56.14 TOM HANKINS 26	1:12.02 DANIEL BEATTY 25	2:25.82 MATHEW J ROTH 25	9:51.77 RON FINLEY 34
10:11.66 W. VOLCKENING 26	1:13.44 GERRY RODRIGUES 29	2:25.85 TOM NORTHCUTT 27	9:59.44 WAYDE MULHERN 32
1500 M. FREE M E N 25-29	1:13.45 JOHN STENROOS 26	2:26.17 HENRY MATHER 27	10:12.32 THOMAS SHOEMAKER 30
16:23.21 ROB MACKLE 92	200 M. BRST M E N 25-29	2:26.34 NICK COLAROSSI 29	10:13.73 DAVE COTE 32
16:23.21 ROB J MACKLE 27	2:24.68 PETER MCCLAFFERTY 89	400 M. I.M. M E N 25-29	10:13.81 THOMAS DENES 34
17:47.59 RANDALL EICKHOFF 27	2:32.44 BOB JENNINGS 26	4:42.88 DAVID SWENSON 92	10:14.42 MICHAEL E JOHNSON 32
17:47.72 STUART CROMATY 28	2:36.09 BRIAN HERBELIN 27	4:42.88 DAVID SWENSON 29	1500 M. FREE M E N 30-34
18:21.01 BRIAN HERBELIN 27	2:37.20 JEFF LEE 25	5:03.76 BRIAN HERBELIN 27	17:05.25 STEVEN FISHER 92
18:59.77 DON SKEOCH 29	2:42.50 DON SKEOCH 29	5:04.26 RANDALL EICKHOFF 27	17:05.25 STEVEN FISHER 30
19:40.54 GRANT NELSON 29	2:43.21 DAVE STEVENS 29	5:07.06 MATHEW J ROTH 25	17:26.67 PAUL DONOHUE 32
19:51.97 JONATHAN EHRMAN 29	2:45.20 ANTHONY NADER 28	5:09.78 DON SKEOCH 29	17:30.62 ALLAN JAEGER 30
20:30.96 BILL WALLACE 27	2:45.85 PAUL IKIOKA 28	5:13.03 MICHAEL D COLLINS 26	18:35.80 GARY QUINN 34
21:35.27 JOHN GRANT 29	2:46.01 TOM NORTHCUTT 27	5:17.09 PAUL IKIOKA 28	18:40.28 RON FINLEY 34
21:43.09 DAVID LAZERSON 29	2:46.55 JIM IACOMETTI 28	5:21.21 CHARLIE MATTHEWS 27	18:46.68 ROBERT EBERWINE 32
50 M. BACK M E N 25-29	2:47.59 JOHN STENROOS 26	5:25.14 ALAN GREENWOOD 26	18:53.57 PATRICK HERRERA 33
26.85 MOOK RHODENBAUGH 92	50 M. FLY M E N 25-29	5:27.67 ANDY PTASHNIK 27	19:05.85 WAYDE MULHERN 32
26.85 MOOK RHODENBAUGH 27	25.77 JAMES LILLEY 89	*****	19:07.06 DAVE COTE 32
27.76 MICHAEL CREASER 25	26.29 BOBBY PATTEN 29	50 M. FREE M E N 30-34	19:46.45 THOMAS SHOEMAKER 30
28.47 JAY YARID 28	26.37 ROBERT KILLEEN 29	23.98 JAMES MONTGOMERY 89	50 M. BACK M E N 30-34
29.92 ROBERT TUCKER 111 27	26.94 BOB JENNINGS 26	24.31 BRUCE STAHL 34	27.18 J. CLAY BRITT 91
29.94 DAVID ANDERSON 26	26.99 JEREMY PECORA 25	25.02 WILL DOUGLASS 33	28.33 JAMES FOWLER 33
30.15 TOM NORTHCUTT 27	27.23 DANIEL BEATTY 25	25.17 N. DOUGLAS SMITH 30	29.25 ALLAN JAEGER 30
30.78 SEBASTIAN MOLL 28	27.70 HENRY MATHER 27	25.26 ALLAN JAEGER 30	29.31 STEVE BARNICOAT 30
30.84 ETHAN CANCELL 27	27.81 JOSEPH THIER 28	25.34 GERRY RODRIGUES 30	29.43 PATRICK HERRERA 33
30.84 WILLIAM VOLCKENI 26	27.98 GERRY RODRIGUES 29	25.34 PETER NUNAN 34	29.81 CHARLES GROEN 31
31.07 EDUARDO ALTILIO 29	28.06 ROB J MACKLE 27	25.47 PAUL SMITH 32	29.97 WILLIAM OLIVER 31
100 M. BACK M E N 25-29	28.11 ALAN M. DAVIS 28	25.54 DONALD HORNBY 32	30.14 JON RIGGS 34
58.42 CLAY BRITT 89	100 M. FLY M E N 25-29	25.60 KEVIN O LADD 31	30.19 DONALD HORNBY 32
1:00.02 MICHAEL CREASER 25	57.07 BRAD WELLS 89	25.70 CHUCK PETERSON 31	30.77 DON EVANS 30
1:01.51 ROBERT TUCKER 111 27	1:00.56 JEREMY PECORA 25	100 M. FREE M E N 30-34	30.98 ROBERT EBERWINE 32
1:04.29 NICK COLAROSSI 29	1:00.89 BOB JENNINGS 26	51.86 JAMES MONTGOMERY 89	100 M. BACK M E N 30-34
1:04.52 SEBASTIAN MOLL 28	1:01.47 CHUCK PONTHER 29	54.70 BRUCE STAHL 34	58.12 J. CLAY BRITT 91
1:05.44 TOM NORTHCUTT 27	1:01.53 DANIEL BEATTY 25	55.67 WILL DOUGLASS 33	58.78 CLAY BRITT 31
1:06.72 DAVID ANDERSON 26	1:02.54 MATHEW J ROTH 25	55.84 GERRY RODRIGUES 30	1:04.48 CHARLES GROEN 31
1:06.87 PHILLIP T KING 25	1:02.96 R.M EICKHOFF 27	56.49 STEVEN FISHER 30	1:05.29 WILLIAM L. SPECHT 34
1:09.29 TIMOTHY P WAUD 25	1:02.98 JOSEPH THIER 28	56.89 N. DOUGLAS SMITH 30	1:05.84 WAYDE MULHERN 32
1:09.44 RICHARD O'CONNELL 29	1:03.31 HARDY LUSSIER 26	57.35 ROBERT EBERWINE 32	1:06.79 DON EVANS 30
1:09.60 JOHN SHEARD 26	1:03.86 TOM NORTHCUTT 27	57.48 BRIAN JOHNSON 31	1:08.22 ROBERT EBERWINE 32
200 M. BACK M E N 25-29	1:03.93 CHARLIE MATTHEWS 27	57.72 RANDY R COX 30	1:08.30 JON RIGGS 34
2:09.12 BRAD WELLS 89	200 M. FLY M E N 25-29	57.78 BRENT C WASHBURNE 30	1:08.97 DARRELL RUCKER 34
2:21.31 NICK COLAROSSI 29	2:10.91 TOM O'BRIEN 88	57.91 PAUL SMITH 32	1:09.03 JOHNATHAN KLEIN 34
2:26.28 MARK WHITESIDE 26	2:19.13 R.M EICKHOFF 27	200 M. FREE M E N 30-34	1:09.44 STEVE LUCY 30
2:26.39 DAVID ANDERSON 26	2:22.71 JEREMY PECORA 25	1:53.66 DAN STEPHENSON 89	200 M. BACK M E N 30-34
2:26.69 TODD BRIGGS 29	2:27.72 DON SKEOCH 29	2:01.24 STEVEN FISHER 30	2:11.19 JAMES FOWLER 92
2:28.47 CHARLIE MATTHEWS 27	2:33.65 JIM MCDONALD 25	2:03.09 ALLAN JAEGER 30	2:11.19 JAMES FOWLER 33
2:29.23 SEBASTIAN MOLL 28	2:38.46 PAUL IKIOKA 28	2:08.65 GARY QUINN 34	2:18.96 CHARLES GROEN 32
2:32.39 ANDY PTASHNIK 27	2:43.08 MICHAEL D COLLINS 26	2:09.27 ROBERT EBERWINE 32	2:22.76 WAYDE MULHERN 32
2:32.72 DON SKEOCH 29	2:54.93 DERICK C SCOVEL 26	2:10.26 R.WILLIAMS 33	2:22.85 WILLIAM L. SPECHT 34
2:33.48 PAUL IKIOKA 28	2:57.11 ALFRED NASH 28	2:10.42 MARK KELLER 32	2:24.18 WILL DOUGLASS 33

TOP TEN SHORT COURSE METERS

2:25.78	PATRICK HERRERA	33	2:30.78	RON STRAUSS	31	2:04.72	SANDY MAC DONALD	37	2:27.08	KEITH DIXON	37
2:25.87	ROGER POWER	30	2:31.58	CHARLES HARTJE	33	2:05.96	DAVID O BURLESON	35	2:27.74	JOHN BURTON	36
2:27.84	STEVE LUCY	30	2:32.39	J. PARKS WESSON	31	2:06.13	MICHAEL MANN	37	2:28.81	JON KLEIN	35
2:28.15	JOHN G FAWCETT	34	2:32.43	THOMAS DENES	34	2:07.89	BRYAN AUSTIN	37	2:28.97	GREGORY S JOHNSON	35
2:28.36	WILLIAM OLIVER	31	2:47.12	PAUL FORTOUL	34	2:08.80	HOWARD JAY	35	2:29.20	CLAY EVANS	38
50 M. BRST M E N 30-34			2:49.40	WARREN MEYERS	32	2:09.67	NATHAN LEIGH	35	2:30.24	JACK ALTDOERFFER	37
30.11	RICH HOFSTETIER	89	100 M. I.M. M E N 30-34			2:10.15	ANDREW ANTONETZ	35	2:32.14	JOHN F ZELL	35
31.97	BENN DOYLE	34	59.95	J. CLAY BRITT	92	2:10.29	MICHAEL DITCH	35	2:32.39	JONATHAN WASHBURN	35
32.33	HOLDEN BANK	31	59.95	CLAY BRITT	31	400 M. FREE M E N 35-39			2:34.27	SCOTT MCMILLEN	39
32.55	PETER LAITI	33	1:02.47	ALLAN JAEGRS	30	4:18.22	ROB COPELAND	91	50 M. BRST M E N 35-39		
32.99	BOB F CHEN	33	1:04.88	STEVE BARNICOAT	30	4:22.27	DAVID SHEPHERD	36	31.64	ROBERT RACHNER	88
33.26	GREGORY OXLEY	33	1:05.16	N. DOUGLAS SMITH	30	4:22.64	LARRY WOOD	38	32.50	RUSS MARSH	36
33.70	C.PEDERSEN	30	1:05.84	DAVE GREY	33	4:23.61	ANDREW ANTONETZ	35	32.60	KARL KAZMAIER	37
33.92	N. DOUGLAS SMITH	30	1:06.61	WILL DOUGLASS	33	4:26.12	SANDY MAC DONALD	37	33.23	STEVE COLELLA	37
33.93	AL WALSH	31	1:06.81	KEVIN O LADD	31	4:26.53	MATT CLARK	36	33.25	DAVID KIRKMAN	37
33.97	KURT A STOLL	32	1:06.89	AL WALSH	31	4:34.45	DAVID O BURLESON	35	33.40	DEAN EKBERG	37
34.07	CHRIS A DIXON	34	1:07.09	KURT A STOLL	32	4:39.72	LEE E MENCH	39	33.52	ALLEN LYDICK	35
100 M. BRST M E N 30-34			1:07.16	DAVID HORTON	30	4:39.88	JOHN BURTON	36	33.64	JACK GROSELLE	37
1:08.10	MARK SCHUMAN	88	200 M. I.M. M E N 30-34			4:41.37	BRYAN AUSTIN	37	33.77	JUERGEN FROEHLICH	36
1:10.18	BENN DOYLE	34	2:12.33	TOBY WEISSERT	88	4:42.06	CLAY EVANS	39	33.77	WENDELL SMITH	36
1:12.28	GREGORY OXLEY	33	2:13.64	ALLAN JAEGRS	30	800 M. FREE M E N 35-39			33.82	RON SCHAFFER	35
1:12.43	KEVIN O LADD	31	2:19.69	CHARLES GROEN	31	9:02.71	SANDY MACDONALD	92	100 M. BRST M E N 35-39		
1:12.49	CHARLES GROEN	31	2:24.30	DOUG J WILLIAMSON	31	9:02.71	SANDY MAC DONALD	37	1:08.40	STUART CORLISS	92
1:12.70	M.WINTERBAUER	32	2:24.40	STEVEN FISHER	30	9:06.52	LARRY WOOD	38	1:08.40	STUART E CORLISS	36
1:12.80	DAVID HORTON	30	2:25.95	GARY QUINN	34	9:11.41	JIM STEWART	35	1:12.43	GREG BRANNICK	36
1:13.41	PETER LAITI	33	2:26.72	STEVE LUCY	30	9:13.26	MATT CLARK	36	1:13.29	ALLEN LYDICK	35
1:14.02	KURT A STOLL	32	2:28.21	JOHN G FAWCETT	34	9:16.42	DAVID SHEPHERD	36	1:13.41	RUSS MARSH	36
1:14.22	DAVE KRUSE	31	2:28.87	BRIAN KELCA	32	9:21.27	ANDREW ANTONETZ	35	1:13.57	RON SCHAFFER	35
1:14.56	CRAIG DALLAM	34	2:29.34	ROBERT EBERWINE	32	9:37.75	ROB COPELAND	36	1:14.04	KARL KAZMAIER	37
200 M. BRST M E N 30-34			2:32.43	ALEX RAE-GRANT	34	9:56.75	FRED NELIS	37	1:14.15	JAMIE LOUIE	37
2:30.18	JOSEPH SHORE	89	400 M. I.M. M E N 30-34			10:01.07	ROBERT WRIGHT	38	1:14.20	STEVE COLELLA	37
2:36.44	BRIAN KELCA	32	4:44.78	ALLAN JAEGRS	92	10:01.29	GREGORY S JOHNSON	35	1:14.71	JOHN EVERS	37
2:39.43	CRAIG DALLAM	34	4:44.78	ALLAN JAEGRS	30	1500 M. FREE M E N 35-39			1:14.81	GARY W KRAGE	36
2:41.49	BENN DOYLE	34	4:48.98	MONTE MONFORE	31	17:25.79	ROB COPELAND	91	200 M. BRST M E N 35-39		
2:42.60	GERRY RODRIGUES	30	5:01.28	STEVEN FISHER	30	17:29.97	DAVID SHEPHERD	36	2:28.35	GREGORY HARRISON	89
2:43.04	WAYDE MULHERN	32	5:04.73	CHARLES GROEN	32	17:32.93	MATT CLARK	36	2:42.38	RON SCHAFFER	35
2:44.30	HOLDEN BANK	31	5:05.12	BRIAN KELCA	32	17:39.09	ANDREW ANTONETZ	35	2:43.34	JAMIE LOUIE	37
2:45.12	DAVE KRUSE	31	5:08.52	TIM M CESPEDES	32	18:38.56	HOWARD JAY	35	2:44.00	JOHN EVERS	37
2:46.60	JOHN G FAWCETT	34	5:13.64	WILLIAM L. SPECHT	34	18:45.52	LARRY WOOD	38	2:44.12	ALLEN LYDICK	35
2:47.61	CHRIS PACKARD	34	5:18.22	GARY QUINN	34	19:33.56	TIM BURKE	35	2:46.96	BRUCE MALLETTE	39
2:49.13	WILLIAM OLIVER	31	5:18.75	WAYDE MULHERN	32	19:39.48	JOHN CHAMBERS	37	2:47.19	JUERGEN FROEHLICH	36
50 M. FLY M E N 30-34			5:26.95	CHARLES HARTJE	33	19:55.15	PETE MOORE	37	2:48.54	DAVID KIRKMAN	37
25.06	MICHAEL BOTTOM	89	*****			19:58.53	MICHAEL HEATHER	38	2:50.69	DAVID PARLER	36
27.94	PAUL SMITH	32	50 M. FREE M E N 35-39			20:06.57	TERRY HEGGY	37	2:51.09	KARL KAZMAIER	37
28.05	N. DOUGLAS SMITH	30	23.98	BILL VICKERY	89	50 M. BACK M E N 35-39			2:51.50	DEAN EKBERG	37
28.21	RANDY R COX	30	24.31	RICHARD HESS	37	28.05	MEL NASH	89	50 M. FLY M E N 35-39		
28.33	CHRIS A DIXON	34	24.72	BRYAN AUSTIN	36	30.12	MARK WORTHEN	38	25.96	RICHARD HESS	91
28.40	DONALD HORNBY	32	25.14	MARK WORTHEN	38	30.15	CLAY EVANS	39	27.50	SANDY MAC DONALD	37
28.48	KRIS WEIMERSKIRCH	34	25.19	WENDELL SMITH	36	30.47	STEVE COLELLA	37	27.50	WENDELL SMITH	36
28.51	JEFF REILLY	31	25.35	JOE KEMAN	37	30.74	WARREN FISHER	36	28.00	JOHN FISCHER	36
28.62	DON EVANS	30	25.39	JACK GROSELLE	37	30.82	TOM BARTON	35	28.02	JOHN FIELDS	35
28.91	RICH CALLAGHAN	30	25.65	JOHN FIELDS	35	31.19	JON KLEIN	35	28.07	KERRY L O'BRIEN	35
29.00	SAM BLYTHE	33	25.70	MICHAEL MANN	37	31.59	STEPHEN A MANN	39	28.63	MARK WORTHEN	38
100 M. FLY M E N 30-34			25.82	JOEL STAGER	39	31.65	JONATHAN WASHBURN	35	28.95	MICHAEL HEATHER	38
56.43	MICHAEL BOTTOM	89	25.86	JACK ALTDOERFFER	37	31.77	JOHN BURTON	36	28.97	DAVID KIRKMAN	37
58.05	CLAY BRITT	31	100 M. FREE M E N 35-39			32.02	TOM BOYD	36	28.99	BRYAN AUSTIN	36
1:00.24	BRIAN KELCA	32	53.94	BILL VICKERY	89	100 M. BACK M E N 35-39			29.32	JOHN BURTON	36
1:01.65	CHARLES GROEN	31	54.76	MATT CLARK	36	1:01.45	THOMAS WOLF	90	100 M. FLY M E N 35-39		
1:01.77	DOUG J WILLIAMSON	31	56.21	LARRY WOOD	38	1:05.23	JACK ALTDOERFFER	37	1:00.50	STUART CORLISS	92
1:03.55	JEFF REILLY	31	56.44	DAVID SHEPHERD	37	1:05.68	STEVE COLELLA	37	1:00.50	STUART E CORLISS	36
1:04.45	BOB J DUGAN	30	56.45	LEE E MENCH	39	1:05.94	JOHN BURTON	36	1:00.65	SANDY MAC DONALD	37
1:04.89	RON STRAUSS	31	56.57	JOE KEMAN	37	1:06.85	CLAY EVANS	39	1:01.63	KERRY L O'BRIEN	35
1:07.08	DAVE GREY	33	56.65	BRYAN AUSTIN	37	1:08.22	JON KLEIN	35	1:02.40	CHARLIE NORELLI	36
1:07.62	THOMAS DENES	34	56.85	JACK GROSELLE	37	1:09.39	GREGORY S JOHNSON	35	1:03.37	STEVE COLELLA	37
1:07.66	ERIC STEINHAUFF	32	57.48	MICHAEL MANN	37	1:09.40	TIMOTHY CLAYSON	38	1:03.85	MICHAEL HEATHER	38
200 M. FLY M E N 30-34			57.58	JOEL STAGER	39	1:10.29	JEFFREY LAMB	35	1:04.21	CLAY EVANS	38
2:13.62	MARK SCHUMAN	88	58.18	MICHAEL DITCH	35	1:10.60	STEPHEN A MANN	39	1:04.44	JOHN BURTON	36
2:14.33	MONTE MONFORE	31	200 M. FREE M E N 35-39			1:10.69	JOHN F ZELL	35	1:05.74	DAVID KIRKMAN	37
2:15.59	WILLIAM L. SPECHT	34	1:59.38	LARRY WOOD	89	200 M. BACK M E N 35-39			1:05.75	HOWARD JAY	35
2:16.98	ALLAN JAEGRS	30	2:02.16	LARRY WOOD	38	2:15.47	THOMAS WOLF	90	200 M. FLY M E N 35-39		
2:22.29	STEVEN FISHER	30	2:03.59	DAVID SHEPHERD	36	2:20.25	DAVID O BURLESON	35	2:14.64	SANDY MACDONALD	92

TOP TEN SHORT COURSE METERS

2:14.64 SANDY MAC DONALD 37	200 M. FREE M E N 40-44	1:12.71 DAVID OWEN 40	1:06.60 GARY HAFER 41
2:14.75 DAVID VANDAM 37	1:59.27 TIMOTHY BRODERICK92	200 M. BACK M E N 40-44	1:07.85 STEVE HECK 43
2:16.12 KERRY L O'BRIEN 35	1:59.27 TIM BRODERICK 41	2:22.17 TOD SPIEKER 89	200 M. FLY M E N 40-44
2:16.87 DAVID SHEPHERD 36	2:08.87 FRED SCHLICHER 44	2:29.28 FRANK THOMPSON 40	2:16.15 BOO GALLAS 89
2:20.24 ANDREW ANTONETZ 35	2:10.67 WILLIAM REID 41	2:30.81 STEVE HECK 42	2:23.58 DAVE TANNER 42
2:28.45 ROBERT WRIGHT 38	2:11.07 LEE MENCH 40	2:32.33 ROBERT STRAUSS 40	2:23.65 FRED SCHLICHER 44
2:30.29 MICHAEL HEATHER 38	2:11.98 STEVE M JOHNSON 44	2:34.42 DAVID OWEN 40	2:28.86 JEFF STRNAD 40
2:31.23 JOHN BURTON 36	2:12.04 JOHN NOLAN 44	2:34.92 WILLIAM TINGLEY 42	2:32.85 BOB KOLONKOWSKI 44
2:31.27 DAVID O BURLESON 35	2:12.33 ROBERT STRAUSS 40	2:35.14 JEFF STRNAD 40	2:34.09 ARTHUR DEFFAA 44
2:31.87 JOHN CHAMBERS 37	2:12.88 FRANK THOMPSON 40	2:36.10 BOB KOLONKOWSKI 44	2:34.16 BRUCE FISHER 43
100 M. I.M. M E N 35-39	2:12.96 STEVE HECK 42	2:39.28 JOHN RADIMER 43	2:35.67 JIM HARTYE 41
1:00.79 RICHARD HESS 92	2:13.23 PETER HUISVELD 41	2:39.51 RICHARD CHANEY 41	2:42.59 PETER HUISVELD 41
1:00.79 RICHARD HESS 37	400 M. FREE M E N 40-44	2:39.76 JOHN TEX 41	2:44.28 ROBERT STRAUSS 40
1:02.49 MATT CLARK 35	4:18.45 KEVIN POLANSKY 89	50 M. BRST M E N 40-44	2:44.29 R. FORTUNE 44
1:04.11 STUART E CORLISS 36	4:37.09 PETER HUISVELD 41	31.33 PAUL HENNE 89	100 M. I.M. M E N 40-44
1:04.63 MARK WORTHEN 38	4:37.15 ROBERT STRAUSS 40	32.18 PEDER DAHLBERG 43	1:02.30 RIC COOLEY 89
1:04.78 STEVE COLELLA 37	4:40.03 FRANK THOMPSON 40	33.14 ALLEN L STARK 43	1:06.89 STEVE HECK 42
1:06.50 JACK GROSELLE 37	4:40.38 WILLIAM G BEHUN 40	33.38 ROBERT PUELS 40	1:08.46 LEE MENCH 40
1:06.52 PAUL WINDRATH 37	4:43.41 JEFF STRNAD 40	33.55 TOM WHATLEY 40	1:09.14 GARY HAFER 41
1:06.60 MICHAEL MANN 37	4:44.53 LEE MENCH 40	34.17 GARY JEWELL 42	1:09.74 DAVID FRISCH 43
1:07.06 JONATHAN WASHBURN 35	4:46.41 WILLIAM REID 41	34.18 JIM CAPERS 40	1:09.92 KURT GERHARDT 41
1:07.36 DAVID KIRKMAN 37	4:47.81 KEITH F BELL 44	34.69 WAYNE MCCAULEY 44	1:10.22 THOMAS MC KENNA 41
200 M. I.M. M E N 35-39	4:48.30 JOHN NOLAN 44	34.73 TIMOTHY BRODERICK 41	1:10.30 JOHN B THAYER 40
2:15.67 CLAY EVANS 89	4:48.85 DAVID OWEN 40	34.74 DAVID FRISCH 43	1:10.65 TED HALL 41
2:17.04 MATT CLARK 36	800 M. FREE M E N 40-44	34.94 EDWARD KENEHAN 41	1:10.88 CHUCK FISCHER 40
2:18.51 DAVID VANDAM 37	9:01.20 KEVIN POLANSKY 89	100 M. BRST M E N 40-44	1:11.31 ARTHUR DEFFAA 44
2:23.45 PAUL WINDRATH 37	9:34.48 STEVE M JOHNSON 44	1:11.22 PAUL HENNE 89	1:11.31 FRANK THOMPSON 40
2:23.78 DAVID SHEPHERD 36	9:43.37 FRANK THOMPSON 40	1:13.00 ALLEN L STARK 43	200 M. I.M. M E N 40-44
2:28.16 JONATHAN WASHBURN 35	9:43.56 DAVE TANNER 42	1:15.00 WAYNE MCCAULEY 44	2:18.73 JOHN CALVERT 89
2:31.30 MARTY PFINGSGRAFF 37	9:47.58 JEFF STRNAD 40	1:15.75 STEVE HECK 42	2:28.57 STEVE HECK 42
2:31.43 JOHN EVERS 37	9:50.64 ROBERT STRAUSS 40	1:16.42 GARY JEWELL 42	2:30.14 RICK KOZLOWSKI 40
2:32.78 TIMOTHY CLAYSON 38	9:55.28 JOHN NOLAN 44	1:16.84 STEVE HANSEN 40	2:31.85 JOHN RADIMER 43
2:33.02 ALLEN LYDICK 35	10:01.08 LEE MENCH 40	1:16.86 THOMAS MC KENNA 41	2:31.95 WILLIAM G BEHUN 40
2:33.63 MICHAEL HEATHER 38	10:10.41 WILLIAM REID 41	1:17.36 SCOTT SCHLIEMAN 41	2:32.73 RIC COOLEY 42
400 M. I.M. M E N 35-39	10:14.16 CHIP GLIDDEN 42	1:18.26 STEPHEN WILDER 42	2:32.86 FRANK THOMPSON 40
4:53.16 CLAY EVANS 89	10:14.31 TODD R CONNELLY 41	1:18.62 DAVID FRISCH 43	2:32.91 JOHN B THAYER 40
5:02.22 LARRY WOOD 38	1500 M. FREE M E N 40-44	1:19.26 DENNIS WILSON 43	2:34.04 HARALD JOHNSON 44
5:02.96 DAVID SHEPHERD 36	17:38.17 DAVID GRAY 87	200 M. BRST M E N 40-44	2:34.26 PETER HUISVELD 41
5:10.95 DAVID O BURLESON 35	18:20.26 ROBERT STRAUSS 40	2:38.99 ROBERT STRAND 90	2:34.63 RICHARD LAMBERT 44
5:11.24 ANDREW ANTONETZ 35	18:21.37 PETER HUISVELD 41	2:44.42 ALLEN L STARK 43	400 M. I.M. M E N 40-44
5:23.39 HOWARD B COYE 37	18:49.06 FRANK THOMPSON 40	2:46.93 WAYNE MCCAULEY 44	5:00.76 JOHN CALVERT 89
5:24.07 CLAY EVANS 39	18:50.44 JEFF STRNAD 40	2:47.47 STEVE HECK 43	5:21.81 STEVE HECK 42
5:25.62 SCOTT MCMILLEN 39	18:54.58 JOHN NOLAN 44	2:50.27 RICHARD LAMBERT 44	5:25.44 ROBERT STRAUSS 40
5:25.89 GREG BRANNICK 36	19:06.18 WILLIAM G BEHUN 40	2:50.52 JOHN B THAYER 40	5:27.59 FRANK THOMPSON 40
5:49.90 DAVID PARLER 36	19:20.41 STEPHEN STEDRY 41	2:51.28 STEVE HANSEN 40	5:28.20 PETER HUISVELD 41
5:50.75 LEO LETENDRE 39	19:39.93 DAVID OWEN 40	2:52.49 STEPHEN WILDER 42	5:32.57 JOHN B THAYER 40
*****	19:48.33 CHRIS WEBB 41	2:56.05 DENNIS J WILSON 43	5:38.40 DAVID OWEN 40
50 M. FREE M E N 40-44	19:57.42 STEVE HECK 42	2:56.72 GLENN A STOREY 42	5:39.97 BOB KOLONKOWSKI 44
24.91 ANDY MCPHERSON 88	50 M. BACK M E N 40-44	2:57.77 LARRY SPRUNK 44	5:41.43 STEPHEN WILDER 42
25.75 JIM HARTYE 41	28.93 JERRY HEIDENREICH91	50 M. FLY M E N 40-44	5:44.13 DENNIS W WILSON 42
25.96 WILLIE C WACHOB 40	31.30 STEVE HECK 42	26.67 JERRY HEIDENREICH91	5:48.06 PATRICK SAVAGE 41
26.00 TIM BRODERICK 41	31.48 WILLIAM TINGLEY 42	28.43 JIM HARTYE 41	*****
26.11 LEE MENCH 40	32.48 JAMES DOWNEY 41	28.48 FRED FERRARO 42	50 M. FREE M E N 45-49
26.19 KURT GERHARDT 41	32.61 RICHARD HAAS 41	28.49 TOM WHATLEY 40	25.07 RICH ABRAHAMS 91
26.21 RICK KOZLOWSKI 40	32.78 J. NATHAN LEECH 43	28.75 KURT GERHARDT 41	25.10 ANDREW MC PHERSON 45
26.37 FRED FERRARO 42	32.84 BOB KOLONKOWSKI 44	28.84 BRAD V PENCE 40	25.31 RICH ABRAHAM 47
26.59 BRAD V PENCE 40	32.98 CHRIS MACCUDRY 40	28.97 KEVIN MCCORMACK 40	25.83 DAN THOMPSON 45
26.60 WILLIAM G BEHUN 40	33.20 DAVE CARTER 43	29.28 DAVE TANNER 42	26.05 LARRY CURRAN 48
26.89 STEVE HECK 42	33.31 TED HALL 41	29.28 EDWARD KENEHAN 41	26.45 ROBERT S SMITH 49
100 M. FREE M E N 40-44	33.37 RICHARD CHANEY 41	29.31 STEVE HECK 42	26.76 ROBERT STRAND 46
55.35 ANDY MCPHERSON 88	100 M. BACK M E N 40-44	29.32 BRAD GLENN 43	26.77 RICHARD ARLUCK 47
56.70 TOM WHATLEY 40	1:04.50 RIC COOLEY 89	100 M. FLY M E N 40-44	26.79 ARNIE DOWD 46
57.84 WILLIAM G BEHUN 40	1:06.46 GARY HAFER 41	1:00.79 ANDREW MCPHERSON 89	26.98 LYNN OLSON 45
57.92 LEE MENCH 40	1:08.04 RIC COOLEY 42	1:03.70 JIM HARTYE 41	27.07 HUGH WILDER 45
58.06 JIM HARTYE 41	1:08.29 WILLIAM TINGLEY 42	1:03.81 FRED SCHLICHER 44	100 M. FREE M E N 45-49
58.24 WILLIE C WACHOB 40	1:09.69 BILL DOW 41	1:05.27 DAVE TANNER 42	56.45 ANDREW MCPHERSON 92
58.69 GARY HAFER 41	1:09.85 FRANK THOMPSON 40	1:05.67 BRAD V PENCE 40	56.45 ANDREW MC PHERSON 45
59.30 JOHN NOLAN 44	1:10.05 STEVE HECK 43	1:05.75 KURT GERHARDT 41	57.91 DAN THOMPSON 45
59.60 STEVE HECK 43	1:11.98 JOHN TEX 41	1:05.84 JEFF STRNAD 40	58.96 TIM GARTON 49
59.77 ROBERT STRAUSS 40	1:12.12 BOB KOLONKOWSKI 44	1:06.06 ARTHUR DEFFAA 44	59.71 HUGH WILDER 45
1:00.08 WILLIAM REID 41	1:12.35 JEFF STRNAD 40	1:06.58 KEVIN MCCORMACK 40	1:00.16 LYNN OLSON 45

TOP TEN SHORT COURSE METERS

1:00.19	ROBERT STRAND	46	1:15.17	JAMES P KING	46	1:08.95	HUGH WILDER	45	59.58	EDWARD G CAZALET	50
1:00.21	RICHARD ARLUCK	47	1:18.12	DOUGLAS SELBY	47	1:09.51	JOSEPH COPLAN	46	1:01.54	RICHARD BASSI	51
1:00.26	RICH ABRAHAMS	47	1:18.32	MARK ALLEN	45	1:09.62	RICHARD ARLUCK	47	1:02.89	HENRY SOUTHALL	52
1:01.12	ARNIE DOWD	46	1:18.43	DOUGLAS W SELBY	47	1:10.07	PAULO FIGUEIREDO	46	1:04.50	TOM ANGELL	52
1:02.27	MICHAEL SLENKER	45	1:18.80	BOB VAN FOSSAN	46	1:10.90	TOM D HENDREY	46	1:06.11	DAVID HARRISON	54
200 M. FREE M E N 45-49			1:20.74	PUG EDMONDS	45	1:11.37	CHUCK ANDREWS	46	1:06.44	ED DANEHY	50
2:05.81	ED CAZALET	88	200 M. BACK M E N 45-49			1:11.50	JAMES P KING	46	1:07.10	DOUG MARKUSIC	50
2:12.89	TIM GARTON	49	2:24.39	TIM BIRNIE	92	200 M. FLY M E N 45-49			1:07.17	DOUG BROWN	53
2:14.69	ROBERT STRAND	46	2:24.39	TIM BIRNIE	47	2:25.95	ANDREW MCPHERSON	92	1:07.47	DAVID PAINTER	54
2:16.81	RICHARD ARLUCK	47	2:30.99	HUGH WILDER	45	2:25.95	ANDREW MC PHERSON	45	1:07.60	JOHN WOODWORTH	50
2:17.71	LYNN OLSON	45	2:39.81	TIM GARTON	49	2:26.84	BOO GRANER-GALLAS	45	200 M. FREE M E N 50-54		
2:18.90	TOM D HENDREY	46	2:42.34	VIRGIL DANIELS	45	2:38.75	BRETT SORGE	45	2:12.18	ED CAZALET	92
2:20.88	HUGH WILDER	45	2:42.42	PAULO FIGUEIREDO	46	2:44.10	JAMES GREEN	47	2:12.18	EDWARD G CAZALET	50
2:21.14	GARY LANGENDOEN	47	2:45.64	JAMES NASH	46	2:49.44	JOHN ZIEGENHAGEN	45	2:21.33	HENRY SOUTHALL	52
2:22.54	JOHN LANE	46	2:49.45	DAN BEHR	48	2:49.82	HARRY GREENFIELD	47	2:24.28	HUGH O WINN	50
2:23.93	PAUL LOFTHOUSE	45	2:52.15	DOUGLAS W SELBY	47	2:51.06	R.FORTUNE	45	2:24.69	DAVID HARRISON	54
2:24.09	HARRY GREENFIELD	47	2:53.77	HUGH DUNSEATH	46	3:06.26	DAVID SZUCH	49	2:27.58	RICHARD BASSI	51
400 M. FREE M E N 45-49			2:57.28	DAVID SCOTT	45	3:08.98	JOHN ZEIGLER	46	2:27.62	BOB COALE	52
4:33.39	ED CAZALET	89	50 M. BRST M E N 45-49			3:24.10	DENNIS WITZGALL	48	2:32.18	TOM ANGELL	52
4:39.72	TIM BIRNIE	47	32.23	PAUL HENNE	91	100 M. I.M. M E N 45-49			2:34.91	BEN FRANKLIN	51
4:58.54	BRETT SORGE	45	32.10	PAUL HENNE	46NV	1:05.45	ROBERT STRAND	92	2:35.02	STEPHEN SAYLOR	50
5:03.58	JOHN LANE	46	32.63	ROBERT STRAND	46	1:05.45	ROBERT STRAND	46	2:36.73	TOM SCOTT	51
5:04.72	LYNN OLSON	45	34.38	THOMAS BOAK	48	1:08.04	ANDREW MC PHERSON	45	400 M. FREE M E N 50-54		
5:08.08	LEO J BRUNING	49	35.83	BILL ABBOTT	45	1:08.62	ROBERT S SMITH	49	4:40.16	ED CAZALET	92
5:11.04	CHUCK MALTA	45	36.07	TIM MILLER	46	1:09.52	HUGH WILDER	45	4:40.16	EDWARD G CAZALET	50
5:12.19	PATRICK HOWE	45	36.18	DAN PER-LEE	48	1:10.50	BOO GRANER-GALLAS	45	4:57.92	HUGH O WINN	50
5:15.65	STEVEN L BARRETT	45	36.67	CHRIS JONES	45	1:12.07	GARY LANGENDOEN	47	5:04.84	DAVID HARRISON	54
5:16.60	ROBERT BENNETT	49	36.69	RICK FIELD	49	1:12.79	VIRGIL DANIELS	45	5:12.93	HENRY SOUTHALL	52
5:18.31	DOUGLAS W SELBY	47	36.72	RALPH KRYDER	46	1:13.54	JAMES NASH	46	5:15.51	DICK STEWART	52
800 M. FREE M E N 45-49			36.73	CHUCK MALTA	45	1:13.74	CHRIS JONES	46	5:27.76	MIKE LAUX	50
9:32.34	RICHARD BOYD	89	100 M. BRST M E N 45-49			1:13.82	RICHARD BAUSCHARD	47	5:30.00	JACK GEOGHEGAN	50
10:25.29	PAUL LOFTHOUSE	45	1:10.41	ROBERT STRAND	92	200 M. I.M. M E N 45-49			5:35.06	ROBERT TESCH	51
10:26.62	MIKE GARABALDI	46	1:10.41	ROBERT STRAND	46	2:24.45	JOHN CALVERT	91	5:35.86	TOM ANGELL	52
10:42.50	JOHN LANE	46	1:12.98	PAUL HENNE	46	2:31.84	TIM GARTON	49	5:36.84	BEN FRANKLIN	51
10:44.91	PATRICK HOWE	45	1:17.51	ROBERT S SMITH	49	2:39.36	VIRGIL DANIELS	45	800 M. FREE M E N 50-54		
10:50.66	LEO J BRUNING	49	1:18.45	TOM BOAK	48	2:41.50	TOM D HENDREY	46	9:49.95	ED CAZALET	92
10:51.72	DOUGLAS SELBY	47	1:20.38	GALEN D DENIO	45	2:44.06	CHUCK ANDREWS	46	9:49.95	EDWARD G CAZALET	50
11:01.74	JOHN ZIEGENHAGEN	45	1:21.79	TIM MILLER	46	2:44.21	JAMES NASH	46	10:23.30	TEX HARASZTI	51
11:16.19	VINCE HERRING	48	1:22.06	CHRIS JONES	45	2:46.61	GALEN D DENIO	45	10:42.70	HUGH O WINN	50
11:17.61	DON M DAVIS	48	1:22.22	RONALD GREGER	47	2:48.00	KING BOYD	48	10:53.43	BOB COALE	52
11:20.28	R.MICHELANGELO	46	1:22.42	JERRY M O'MARA	45	2:48.42	JOHN LANE	46	11:07.03	JACK GEOGHEGAN	50
1500 M. FREE M E N 45-49			1:22.78	RALPH KRYDER	46	2:49.22	R.MICHELANGELO	46	11:24.35	RONALD MOLNAR	50
18:27.36	HUGH WINN	87	200 M. BRST M E N 45-49			2:49.58	DAN BEHR	48	11:34.68	BOB BOURASSA	51
19:51.21	PAUL LOFTHOUSE	45	2:35.71	ROBERT STRAND	92	400 M. I.M. M E N 45-49			11:46.02	MIKE LAUX	50
20:19.53	JOHN LANE	46	2:35.71	ROBERT STRAND	46	5:17.02	EDWARD CAZALET	89	11:46.42	BEN FRANKLIN	51
20:35.66	PATRICK HOWE	45	2:55.09	TIM GARTON	49	5:38.61	GARY LANGENDOEN	47	11:54.09	STEPHEN SAYLOR	50
20:49.47	DOUGLAS SELBY	47	2:59.02	TOM BOAK	48	5:42.88	VIRGIL DANIELS	45	1500 M. FREE M E N 50-54		
20:53.49	FRED SHAW	46	3:00.40	CHRIS JONES	45	5:43.29	BRETT SORGE	45	19:16.63	BURWELL JONES	85
21:07.38	GUY LEWIS	49	3:01.52	RONALD GREGER	47	5:53.83	JOHN LANE	46	18:37.79	EDWARD CAZALET	50NV
21:13.91	VINCE HERRING	49	3:02.13	JIM PELISSIER	47	6:02.12	KING BOYD	48	19:47.37	TEX HARASZTI	51
21:26.20	GARRY WARREN	45	3:03.80	DON M DAVIS	48	6:02.33	JAMES GREEN	47	20:58.15	JACK GEOGHEGAN	50
21:51.75	STEVEN L BARRETT	45	3:05.80	KING BOYD	48	6:06.71	HARRY GREENFIELD	47	20:59.47	BOB COALE	52
21:56.23	HARRY GREENFIELD	47	3:06.61	VINCENT GALLO	48	6:14.04	DAVID SZUCH	49	21:00.00	RONALD MOLNAR	50
50 M. BACK M E N 45-49			3:07.04	RICHARD S DOERR	49	6:15.52	GUY LEWIS	49	21:45.05	BOB BOURASSA	51
29.33	ROBERT SMITH	89	50 M. FLY M E N 45-49			6:16.18	JOHN ZEIGLER	46	22:28.78	STEPHEN SAYLOR	50
30.38	HUGH WILDER	45	27.46	DAN THOMPSON	92	*****			22:35.27	FREDERIC WILSON	51
30.57	ROBERT S SMITH	49	27.46	DAN THOMPSON	45	50 M. FREE M E N 50-54			22:39.65	BEN FRANKLIN	51
30.79	TIM BIRNIE	47	28.13	RICH ABRAHAMS	47	26.35	JEFF FARRELL	88	22:55.14	MIKE LAUX	50
33.16	JAMES NASH	46	28.70	ANDREW MC PHERSON	45	27.52	EDWARD CAZALET	50	50 M. BACK M E N 50-54		
33.36	PAULO FIGUEIREDO	46	29.66	HUGH WILDER	45	27.78	RICHARD BASSI	51	31.42	JOHN SMITH	89
33.50	TOM FINNEGAN	45	29.83	RICHARD ARLUCK	47	27.82	TOM ANGELL	52	32.49	FRANS NELSON	50
33.51	KENNETH KRUEGER	46	30.00	GARY LANGENDOEN	47	28.04	FRANS NELSON	50	32.80	RICHARD BASSI	51
34.12	DAN BEHR	48	30.14	MICHAEL SLENKER	45	28.18	JOHN FULOP	51	32.81	EDWARD CAZALET	50
34.12	VIRGIL DANIELS	45	30.23	TIM GARTON	49	28.63	TEX HARASZTI	51	35.89	DAVE GILLANDERS	53
34.82	FRANK HENNESSY	45	30.67	JIM WHITE	49	29.00	JIM STEWART	50	36.61	HUGH RODDIN	50
100 M. BACK M E N 45-49			30.94	ROBERT BENNETT	48	29.10	HENRY SOUTHALL	52	37.13	LEE BETTIS	54
1:05.31	ROBERT SMITH	89	100 M. FLY M E N 45-49			29.27	TOM SCOTT	51	37.36	SANFORD PLATTER	53
1:05.96	HUGH WILDER	45	1:03.48	GARY LANGENDOEN	90	29.33	JERRY KATZ	53	37.50	FRED WENDELKEN	53
1:06.43	TIM BIRNIE	47	1:04.28	RICH ABRAHAMS	47	29.33	DAVID PAINTER	54	37.89	DAVID DIEHL	50
1:06.93	ROBERT S SMITH	49	1:04.72	ANDREW MC PHERSON	45	100 M. FREE M E N 50-54			38.31	ROBERT BRUMER	53
1:14.92	VIRGIL DANIELS	45	1:04.90	GARY LANGENDOEN	47	59.58	ED CAZALET	92	100 M. BACK M E N 50-54		

TOP TEN

SHORT COURSE METERS

1:10.07 JOHN SMITH	89	100 M. FLY M E N 50-54	31.39 DICK A PETERSON	55	40.68 RICHARD ROUSE	59	
1:10.44 EDWARD G CAZALET	50	1:06.66 ROBERT PROEBSTING89	31.41 DAVID HAVEN	55	40.92 ED ROONEY	59	
1:12.22 RICHARD BASSI	51	1:11.71 DAVE GILLANDERS	53	100 M. FREE M E N 55-59	41.39 RAY ASCHERFELD	57	
1:14.98 FRANS NELSON	50	1:13.01 HUGH RODDIN	50	1:00.08 DONALD HILL	89	100 M. BACK M E N 55-59	
1:16.88 PETER R. BETZER	50	1:14.19 RICHARD BASSI	51	1:06.62 DAVID HARRISON	55	1:12.17 YOSHI OYAKAWA	89
1:17.43 HUGH RODDIN	50	1:15.35 EDWARD G CAZALET	50	1:06.79 ERNIE LESKOVITZ	55	1:20.80 BILL EARLEY	55
1:18.46 ED DANEHY	50	1:16.53 ROBERT TESCH	51	1:07.39 PETER TAFT	56	1:21.06 JOHN W GOODE	58
1:18.51 LEE BETTIS	54	1:17.85 JOHN STOVER	50	1:08.54 W.ROBERTSON	56	1:23.10 JACK G HALLIDAY	55
1:21.66 ROBERT F NORRIS	54	1:20.63 HARRY GROGAN	50	1:09.33 C.LE BOURGEOIS	58	1:24.11 BARRY A FASBENDER	55
1:24.29 ROBERT TESCH	51	1:21.40 BEN WISCKOL	52	1:09.77 SID HALL	56	1:24.23 MARSHALL GREER	55
1:24.55 FRED WENDELKEN	53	1:27.90 JOHN WOODWORTH	50	1:10.58 RAY ASCHERFELD	57	1:26.89 C.LE BOURGEOIS	58
200 M. BACK M E N 50-54		1:27.99 JOE BOLZE	52	1:10.60 CHARLES MAAS	57	1:29.48 SID HALL	56
2:33.18 ED CAZALET	92	200 M. FLY M E N 50-54		1:11.26 SHERWIN DROBNER	59	1:32.67 RAY ASCHERFELD	57
2:32.39 EDWARD CAZALET	50NV	2:36.01 ROBERT PROEBSTING89		1:11.49 BRUCE MURRAY	55	1:33.16 MIKE MILLIMAN	57
2:43.59 RICHARD BASSI	51	2:41.84 EDWARD CAZALET	50	200 M. FREE M E N 55-59		1:34.53 RUSSELL L JUDD	59
2:44.76 PETER R. BETZER	50	2:46.44 BRIAN E FOSS	50	2:21.51 DAVID HARRISON	92	200 M. BACK M E N 55-59	
2:48.76 HUGH RODDIN	50	2:55.27 HUGH RODDIN	50	2:21.51 DAVID HARRISON	55	2:41.11 JACK BEATTIE	89
2:51.16 LEE BETTIS	54	2:56.17 DAVE GILLANDERS	53	2:30.06 ERNIE LESKOVITZ	55	3:05.16 BARRY A FASBENDER	55
2:54.36 ROBERT F NORRIS	54	3:07.96 HARRY GROGAN	50	2:34.34 W.ROBERTSON	56	3:12.87 BILL EARLEY	56
3:00.44 MEL E GOLDSTEIN	54	3:08.53 ROBERT TESCH	51	2:38.76 JOHN RIDLAND	59	3:14.27 MARSHALL GREER	55
3:00.58 ROBERT TESCH	51	3:24.41 LANDON KIRCHNER	54	2:40.23 JIM BIGLER	56	3:14.43 C.LE BOURGEOIS	58
3:03.23 FRED WENDELKEN	53	3:26.58 JOE BOLZE	52	2:42.03 C.LE BOURGEOIS	58	3:17.74 RICHARD ROUSE	59
3:08.69 ROBERT ADAMS	54	3:30.67 DOUGLAS KOOP	51	2:42.08 BRUCE MURRAY	55	3:18.03 MIKE MILLIMAN	57
50 M. BRST M E N 50-54		3:33.07 TREVOR ROBINSON	52	2:45.08 CHARLES MAAS	57	3:26.67 RAY ASCHERFELD	57
34.15 MANUEL SANGUILY	87	100 M. I.M. M E N 50-54		2:47.02 BILL EARLEY	56	3:30.50 BRUCE KURTZ	56
36.24 TEX HARASZTI	51	1:07.60 DRURY GALLAGHER	89	2:47.88 DICK A PETERSON	55	3:30.81 JOHN PAYOTELIS	57
36.75 DOUG MARKUSIC	50	1:10.10 EDWARD CAZALET	50	400 M. FREE M E N 55-59		3:35.90 PETER YAW	55
38.22 FRANS NELSON	50	1:10.51 TEX HARASZTI	51	5:00.88 GRAHAM JOHNSTON	87	50 M. BRST M E N 55-59	
38.77 BEN FRANKLIN	51	1:12.41 RICHARD BASSI	51	5:06.15 DAVID HARRISON	55	33.77 MANUEL SANGUILY	89
38.78 THOMAS MEISEL	52	1:13.45 FRANS NELSON	50	5:08.06 DAVID COSTILL	56	35.44 MANI SANGUILY	59
38.84 SANFORD PLATTER	53	1:17.16 DOUG MARKUSIC	50	5:16.75 ERNIE LESKOVITZ	55	36.54 DAVID DABOLL	55
39.41 WALT E REID	52	1:18.04 JOHN STOVER	50	5:19.76 CARL WOOLLEY	56	37.81 MILTON GEE	55
39.75 BILL PTASHNIK	51	1:18.73 JOHN WOODWORTH	50	5:26.25 C.LE BOURGEOIS	58	38.56 BOB PATTEN	57
40.11 JOHN T BOGUE	52	1:19.58 DAVID PAINTER	54	5:39.62 BARRY A FASBENDER	55	38.69 NEIL WORTMANN	56
40.15 BEN WISCKOL	52	1:20.85 FRED WENDELKEN	53	5:46.33 BUDDY BELSHE	58	39.31 WILLIAM JONES	55
100 M. BRST M E N 50-54		1:21.58 MIKE LAUX	51	5:56.39 DAVID HAVEN	55	40.75 BILL STEUART	56
1:14.72 DRURY GALLAGHER	89	200 M. I.M. M E N 50-54		6:00.00 HOWARD ALKOFF	58	41.03 J.VANLANDINGHAM	58
1:20.21 TEX HARASZTI	51	2:31.52 DRURY GALLAGHER	89	6:00.87 CHARLES MAAS	57	41.34 GEORGE D THAYER	56
1:23.78 DOUG MARKUSIC	50	2:32.50 EDWARD CAZALET	50	800 M. FREE M E N 55-59		41.60 BILL EARLEY	55
1:25.11 AMOS A HARDY	50	2:46.98 HUGH RODDIN	50	10:35.62 GRAHAM JOHNSTON	87	100 M. BRST M E N 55-59	
1:27.64 DIETER KULICKE	51	2:47.48 DICK STEWART	52	10:45.04 ERNIE LESKOVITZ	55	1:16.32 MANUEL SANGUILY	88
1:27.82 THOMAS MEISEL	52	2:49.29 MEL E GOLDSTEIN	54	10:49.63 BILL STEUART	56	1:20.94 MANI SANGUILY	59
1:27.98 ARMIN ARNDT	52	2:49.61 MIKE LAUX	51	11:54.90 BARRY A FASBENDER	55	1:24.25 DAVID DABOLL	55
1:28.30 EDWARD G CAZALET	50	2:50.71 BEN WISCKOL	52	12:07.21 JAMES JOHNSEN	57	1:25.34 JACK G HALLIDAY	55
1:28.37 BEN FRANKLIN	51	2:51.80 HUGH O WINN	50	12:53.32 JAMES MILLER	56	1:26.02 BOB PATTEN	57
1:29.21 BILL PTASHNIK	51	2:54.32 JOHN WOODWORTH	50	12:53.50 NEIL WORTMANN	57	1:27.60 DICK A PETERSON	55
1:29.34 ALLEN J. WHITCOMB	52	2:56.64 JOHN STOVER	50	13:11.83 DIETER WUNDERLICH	55	1:27.67 WILLIAM JONES	55
200 M. BRST M E N 50-54		2:57.71 ROBERT TESCH	51	13:28.43 DONALD WALTER	56	1:28.31 MILTON GEE	55
2:45.11 DRURY GALLAGHER	89	400 M. I.M. M E N 50-54		13:45.59 SHERWIN DROBNER	59	1:29.91 RAY S. BURNS	57
2:53.37 TEX HARASZTI	51	5:20.81 DRURY GALLAGHER	89	14:00.62 FRANCIS BROWN	56	1:32.71 JOHN PAYOTELIS	57
3:04.50 JOHN STOVER	50	5:24.09 EDWARD CAZALET	50	1500 M. FREE M E N 55-59		1:33.99 BARRY A FASBENDER	55
3:11.24 PETER R. BETZER	50	5:38.98 TEX HARASZTI	51	20:03.24 BURWELL JONES	90	200 M. BRST M E N 55-59	
3:12.34 MEL E GOLDSTEIN	54	6:01.47 HUGH RODDIN	50	20:45.74 ERNIE LESKOVITZ	55	2:51.47 MANUEL SANGUILY	89
3:14.50 HUGH O WINN	50	6:04.42 HUGH O WINN	50	21:14.01 CARL WOOLLEY	55	3:10.73 BOB PATTEN	57
3:15.32 DIETER KULICKE	51	6:07.62 MIKE LAUX	51	21:36.16 C.LE BOURGEOIS	58	3:11.41 DAVID DABOLL	55
3:17.41 ERIC BENNETT	52	6:19.55 JOHN WOODWORTH	50	22:26.75 JOHN RIDLAND	59	3:14.93 JACK G HALLIDAY	55
3:17.49 ARMIN ARNDT	52	6:19.60 HARRY GROGAN	50	23:08.04 CHARLES MAAS	57	3:16.73 MILTON GEE	55
3:18.56 LANDON KIRCHNER	54	6:33.56 ROBERT TESCH	51	23:13.22 BUDDY BELSHE	58	3:22.77 BARRY A FASBENDER	55
3:19.25 JOHN T BOGUE	52	6:38.74 BOB COALE	52	23:32.11 RAY S. BURNS	57	3:28.95 RAY S. BURNS	57
50 M. FLY M E N 50-54		6:39.53 ROBERT F NORRIS	54	24:03.25 DAVID HAVEN	55	3:30.96 JOHN PAYOTELIS	57
29.34 ROBERT PROEBSTING88		*****		26:46.18 BILL DAVIES	55	3:33.39 HARRY M. PIPER	57
30.44 RICHARD BASSI	51	50 M. FREE M E N 55-59		27:06.83 STEVE HAMILTON	57	3:36.33 JIM BIGLER	56
31.05 JOHN FULOP	51	26.60 DONALD HILL	89	50 M. BACK M E N 55-59		3:39.05 BENGT STROM	59
32.13 DAVE GILLANDERS	53	27.55 BOB BAILIE	56	32.69 YOSHI OYAKAWA	89	50 M. FLY M E N 55-59	
32.34 ROBERT TESCH	51	30.42 BILL EARLEY	56	35.31 BILL EARLEY	55	30.15 ROBERT BAILIE	90
33.26 LLOYD KLINEDINST	52	30.57 CHARLES MAAS	57	35.59 JOHN W GOODE	58	30.57 BOB BAILIE	56
33.52 JOHN F FASTERICH	50	30.57 SHERWIN DROBNER	59	36.12 MARSHALL GREER	55	34.09 C.LE BOURGEOIS	58
33.99 FRANS NELSON	50	30.66 GEORGE D THAYER	56	37.67 C.LE BOURGEOIS	58	34.28 ERNIE LESKOVITZ	55
34.61 JERRY KATZ	53	30.79 W.ROBERTSON	56	39.04 SID HALL	56	34.82 PETER TAFT	56
34.64 DOUG MARKUSIC	50	30.96 RAY ASCHERFELD	57	39.67 W.ROBERTSON	56	35.30 JOHN W GOODE	58
34.79 DAVID PAINTER	54	31.36 ED CURTIS	57	40.08 GEORGE NORDBLOM	57	35.52 BILL EARLEY	56

TOP TEN SHORT COURSE METERS

36.25 HERB ALVARADO 57	30.76 JOHN KORTHEUER 61	39.37 ARNIE GREEN 60	34.21 FRANK REYNOLDS 60
38.16 BOB RODRIGUE 58	31.14 WILLIAM CLEMONS 63	40.94 GERALD MARKOFF 61	34.51 HERB KERN 60
38.31 DAVID HARRINGTON 57	31.16 FRANK REYNOLDS 60	41.14 NORMAN SHELDON 61	34.63 HAL BEGEL 63
38.47 CHARLES MAAS 57	31.36 HAM MILROY 61	41.55 HERB KERN 60	34.64 LEN GOLDSTONE 62
100 M. FLY M E N 55-59	31.42 DON SONIA 62	41.80 MILTON R MARKS 62	37.11 DONALD MESSER 61
1:12.51 DAVE COSTILL 91	31.45 BOB CONGELLIERE 63	42.38 GORDON H GILLIN 61	37.32 HAM MILROY 61
1:15.31 ERNIE LESKOVITZ 55	100 M. FREE M E N 60-64	42.57 A. FRIEDLAND 62	37.35 ROBERT BADGER 61
1:20.15 WILLIAM JONES 55	1:05.52 CHARLES BALDWIN 90	100 M. BACK M E N 60-64	38.10 ARTHUR C WELCH 60
1:21.90 C.LE BOURGEOIS 58	1:09.24 DICK BOWER 62	1:17.31 PAUL HUTINGER 86	100 M. FLY M E N 60-64
1:23.08 BOB PATTEN 57	1:09.99 HAL BEGEL 63	1:23.79 HAL BEGEL 63	1:15.69 JOHN KORTHEUER 91
1:23.16 HERB ALVARADO 57	1:10.30 RICHARD L BENNETT 62	1:25.37 KENNETH KIMBALL 61	1:27.25 ARTHUR C WELCH 60
1:23.19 BARRY A FASBENDER 55	1:10.81 ROBERT KLAGES 61	1:28.64 CHARLES MOSS 63	1:28.43 LEN GOLDSTONE 62
1:23.86 MANI SANGUILY 59	1:11.82 DON SONIA 62	1:29.59 ARNIE GREEN 60	1:29.12 HERB KERN 60
1:33.51 NEIL WORTMANN 56	1:12.03 NORMAN SHELDON 61	1:32.14 GORDON GILLEN 62	1:35.44 DONALD BAKER 61
1:35.74 ELMER EGELKRAUT 55	1:12.06 HERB KERN 60	1:34.55 A. FRIEDLAND 62	1:39.89 WILLIAM CANNON 62
1:36.30 MARK PLUMMER 55	1:12.35 BOB HERITIER 63	1:35.51 HAROLD DESMIDT 63	1:42.41 ART TEBBENS 63
200 M. FLY M E N 55-59	1:12.59 FRED W TRASK 64	1:35.66 GENE DONNER 61	1:45.53 BRUNO WEBER 64
2:53.71 MANUEL SANGUILY 89	1:13.06 WILLIAM CLEMONS 63	1:36.92 HERB KERN 60	1:46.62 FRANK R PETUYA 60
3:05.16 WILLIAM JONES 55	200 M. FREE M E N 60-64	1:42.09 GEORGE GULEVICH 60	1:50.45 BILL HEBERT 61
3:06.26 C.LE BOURGEOIS 58	2:21.77 GRAHAM JOHNSTON 91	200 M. BACK M E N 60-64	1:54.05 BARRY BARTLE 60
3:13.27 BARRY A FASBENDER 55	2:28.09 GRAHAM JOHNSTON 61	2:49.82 ROGER FRANKS 89	200 M. FLY M E N 60-64
3:18.00 HERB ALVARADO 57	2:39.20 LEN GOLDSTONE 62	2:57.77 RICHARD L BENNETT 61	3:06.04 CHARLES MOSS 89
3:27.45 CHARLES MAAS 57	2:40.45 ROBERT KLAGES 61	3:07.90 KENNETH KIMBALL 62	3:16.80 HERB KERN 60
3:37.50 ELMER EGELKRAUT 55	2:43.15 ARTHUR C WELCH 60	3:12.03 HAL BEGEL 63	3:50.01 C.H. KOHNKEN 61
4:00.88 DAVID HARRINGTON 57	2:44.21 CHARLES KOHNKEN 61	3:18.34 ARNIE GREEN 60	3:53.77 THOMAS MICHELSON 61
4:09.92 GARRY HARN 56	2:44.45 BARRY BARTLE 60	3:23.53 HAROLD DESMIDT 63	4:08.64 WILLIAM CANNON 62
4:16.10 BOB RODRIGUE 58	2:44.88 RICHARD L BENNETT 61	3:31.01 HERB KERN 60	4:19.20 DONALD MESSER 61
4:17.56 PICKETT SIMPSON 57	2:44.89 HERB KERN 60	3:32.67 GENE DONNER 61	4:28.44 NED P. ALLEN 62
100 M. I.M. M E N 55-59	2:45.47 FRED W TRASK 64	3:33.16 A. FRIEDLAND 62	4:41.90 RICHARD FRYLING 60
1:12.57 DAVE COSTILL 91	2:45.79 DICK BOWER 62	3:37.96 JOHN BAUMAN 62	100 M. I.M. M E N 60-64
1:20.96 BILL EARLEY 56	400 M. FREE M E N 60-64	3:38.45 BILL HEBERT 61	1:14.68 JOHN KORTHEUER 91
1:21.38 C.LE BOURGEOIS 58	5:03.13 GRAHAM JOHNSTON 92	50 M. BRST M E N 60-64	1:19.36 FRANK REYNOLDS 60
1:21.47 W.ROBERTSON 56	5:03.13 GRAHAM JOHNSTON 61	35.31 JOHN KORTHEUER 91	1:22.65 HERB KERN 60
1:22.29 DICK A PETERSON 55	5:25.61 WALLIE JEFFERIES 60	36.25 HARRY HUNSICKER 61	1:25.52 ROBERT BADGER 61
1:25.38 RAY ASCHERFELD 57	5:44.70 ARTHUR C WELCH 60	36.61 JOHN KORTHEUER 61	1:26.15 DONALD BAKER 61
1:26.30 GEORGE D THAYER 56	5:50.23 ROBERT KLAGES 61	37.94 BOB BEST 60	1:26.17 DICK BOWER 62
1:27.33 RICHARD ROUSE 59	5:51.65 CHARLES KOHNKEN 61	40.10 TAK ISERI 60	1:27.27 GORDON H GILLIN 61
1:27.44 SHERWIN DROBNER 59	5:58.13 KENNETH KIMBALL 61	40.52 MILTON R MARKS 62	1:28.15 ERIC GP. GUEST 63
1:28.84 MIKE MILLIMAN 57	5:58.44 BARRY BARTLE 60	40.70 JOHN VAN HORN JR 60	1:28.38 TAK ISERI 60
1:29.47 ROBERT KOENIG 55	5:59.36 DICK BOWER 62	41.33 EUGENE SAPPER 63	1:28.97 FRED W TRASK 64
200 M. I.M. M E N 55-59	6:05.16 HERB KERN 60	41.51 ROBERT BADGER 61	1:30.95 MILTON R MARKS 62
2:40.88 DAVE COSTILL 91	6:05.30 DON SONIA 62	42.08 DICK BOWER 62	200 M. I.M. M E N 60-64
2:42.76 DAVID COSTILL 56	800 M. FREE M E N 60-64	42.66 HERB KERN 60	2:46.69 GRAHAM JOHNSTON 91
2:59.94 JACK HALLIDAY 55	11:14.13 WILLIAM PHILLIPS 89	100 M. BRST M E N 60-64	2:51.68 GRAHAM JOHNSTON 61
3:00.77 BARRY A FASBENDER 55	11:34.81 ARTHUR C WELCH 60	1:18.77 JOHN KORTHEUER 91	3:01.35 LEN GOLDSTONE 62
3:01.36 W.ROBERTSON 56	12:08.47 CHARLES KOHNKEN 61	1:28.12 TAK ISERI 60	3:04.05 HERB KERN 60
3:01.97 MANI SANGUILY 59	12:25.88 HERB KERN 60	1:34.36 MILTON R MARKS 62	3:09.28 CHARLES MOSS 63
3:03.62 C.LE BOURGEOIS 58	12:37.16 KENNETH KIMBALL 62	1:35.18 EUGENE SAPPER 63	3:11.17 GORDON H GILLIN 61
3:04.29 BILL EARLEY 56	12:50.60 CHARLES MOSS 63	1:35.38 ROBERT BADGER 61	3:22.59 TAK ISERI 60
3:07.94 JOHN RIDLAND 59	13:04.04 WILLIAM CLEMONS 63	1:37.30 HERB KERN 60	3:23.96 JOHN DAILY 64
3:16.00 JOHN W GOODE 58	13:09.17 DICK BOWER 62	1:37.36 LARRY SVANE 62	3:24.52 HAM MILROY 61
3:20.37 NEIL WORTMANN 56	13:40.46 GENE DONNER 61	1:38.55 NICHOLAS BERENYI 60	3:29.78 LARRY SVANE 62
400 M. I.M. M E N 55-59	13:45.34 JORDAN WOLLE 64	1:39.01 BOB METH 63	3:29.85 DICK WEBBER 63
5:54.37 BURWELL JONES 89	13:50.52 JOHN DAILY 64	1:40.90 PIETER CATH 62	400 M. I.M. M E N 60-64
6:08.76 CARL WOOLLEY 55	1500 M. FREE M E N 60-64	1:41.07 JOHN DAILY 64	6:03.45 GRAHAM JOHNSTON 92
6:13.67 JACK G HALLIDAY 55	21:11.35 WALLIE JEFFERIES 92	200 M. BRST M E N 60-64	6:03.45 GRAHAM JOHNSTON 61
6:19.50 ERNIE LESKOVITZ 55	21:11.35 WALLIE JEFFERIES 60	3:00.71 JOHN KORTHEUER 91	6:33.86 HERB KERN 60
6:30.00 C.LE BOURGEOIS 58	23:08.16 ROBERT KLAGES 61	3:07.44 JOHN KORTHEUER 61	6:49.52 GORDON H GILLIN 61
6:32.61 BARRY A FASBENDER 55	23:20.94 KENNETH KIMBALL 61	3:11.02 BOB BEST 60	7:04.93 CHARLES KOHNKEN 61
7:05.71 JOHN W GOODE 58	23:45.68 BARRY BARTLE 60	3:12.96 TAK ISERI 60	7:32.61 THOMAS MICHELSON 61
7:13.36 NEIL WORTMANN 57	23:50.45 HERB KERN 60	3:25.37 CHARLES MOSS 63	7:35.35 BARRY BARTLE 60
7:25.74 MIKE MILLIMAN 57	23:51.70 CHARLES KOHNKEN 61	3:30.61 NICHOLAS BERENYI 60	7:37.02 NICHOLAS BERENYI 60
7:43.48 GARRY HARN 56	24:45.68 DICK BOWER 62	3:32.63 HERB KERN 60	7:40.73 JOHN BAUMAN 62
8:17.50 BRUCE KURTZ 56	25:07.86 ROBERT E. BEACH 62	3:37.61 JOHN BAUMAN 62	7:53.93 WILLIAM CANNON 62
*****	25:43.35 BILL HEBERT 61	3:38.79 LARRY SVANE 62	8:42.17 RICHARD FRYLING 60
50 M. FREE M E N 60-64	25:45.60 BOB WHITE 64	3:39.03 EUGENE SAPPER 63	*****
28.86 FRANK PIEMME 88	50 M. BACK M E N 60-64	3:41.47 JOHN DAILY 64	50 M. FREE M E N 65-69
29.57 CHARLES BALDWIN 61	34.81 PAUL HUTINGER 86	50 M. FLY M E N 60-64	29.63 FRANK PIEMME 90
30.31 BOB BEST 60	36.78 RICHARD BENNETT 60	32.34 JOHN KORTHEUER 91	30.07 FRANK PIEMME 67
30.49 DICK WEBBER 63	38.76 KENNETH KIMBALL 61	32.51 HARRY HUNSICKER 61	31.19 BOB HARRIS 68
30.55 DICK BOWER 62	39.10 FRANK REYNOLDS 60	33.02 CHARLES BALDWIN 61	31.65 ROBERT BLAKE 67

TOP TEN SHORT COURSE METERS

32.76 JURGEN SCHMIDT	69	39.46 FLOYD A ELIOTT	65	34.74 PAUL HUTINGER	68	33.71 JAY CRADDOCK	71
32.78 LUMAN SUTTON	65	41.11 RALPH PERRY	65	35.18 JOSEPH KURTZMAN	66	34.14 RAYMOND F TAFT	73
34.84 JOHN REESE	66	41.28 GEORGE BRINTON	68	36.38 LUMAN SUTTON	65	34.29 DON BARTLETT	70
34.96 DONALD HUBBARD	65	42.08 ALFRED KAPTOR	66	37.28 JURGEN SCHMIDT	69	35.30 BARNET PHILLIPS	74
35.02 CARL EDWARDS	65	42.25 LUMAN SUTTON	65	38.49 DONALD J HUBBARD	65	35.34 JOHN PATTEN	71
35.21 JOHN WEIR	68	43.03 DON KORTEN	65	40.16 LEE ARTH	67	35.37 JERRY R SIEFERT	74
35.66 BERNIE GUTTILLA	66	44.47 LEE J MIESEN	65	41.21 MATTHEW FLANAGAN	66	100 M. FREE M E N 70-74	
100 M. FREE M E N 65-69		44.95 MATTHEW FLANAGAN	66	41.67 GEORGE BRINTON	68	1:12.57 JOHN RICHARDS	92
1:07.13 FRANK PIEMME	90	100 M. BACK M E N 65-69		42.23 BERNIE GUTTILLA	66	1:12.57 JOHN RICHARDS	70
1:08.93 FRANK PIEMME	67	1:20.13 PAUL HUTINGER	90	100 M. FLY M E N 65-69		1:15.79 DONALD AGATE	70
1:11.43 ROBERT BLAKE	67	1:18.73 PAUL HUTINGER	68NV	1:21.66 JOSEPH KURTZMAN	91	1:19.61 RAYMOND F TAFT	73
1:12.33 ED KERSWILL	66	1:21.06 ROGER FRANKS	65	1:24.82 JOSEPH KURTZMAN	66	1:20.32 GERALD A HUESTIS	71
1:16.80 JURGEN SCHMIDT	69	1:25.13 FLOYD A ELIOTT	65	1:35.37 LEE ARTH	67	1:22.83 ALDO V DA ROSA	74
1:18.78 BERNIE GUTTILLA	66	1:31.02 FRANK PIEMME	67	1:36.59 DONALD J HUBBARD	65	1:23.09 BILL ODMAN	73
1:20.68 LEE ARTH	67	1:32.48 RALPH PERRY	65	1:39.95 EDWARD RUDLOFF	68	1:23.20 DICK LOIZEAUX	72
1:20.69 WAYNE SHADBOLT	67	1:33.15 GEORGE BRINTON	68	1:43.09 ART KELLEY	66	1:24.55 JERRY R SIEFERT	74
1:21.90 JARKA BURIAN	65	1:34.15 DON KORTEN	65	1:49.59 RICHARD DANIEL	66	1:24.70 BARNET PHILLIPS	74
1:23.77 FLOYD A ELIOTT	65	1:35.50 LEE ARTH	67	1:51.61 DON KORTEN	65	1:24.79 JOHN PATTEN	71
1:24.56 WILLIAM DEMASTUS	67	1:35.69 W MORGAN BYERS	65	2:03.50 ROBERT BLAKE	67	200 M. FREE M E N 70-74	
200 M. FREE M E N 65-69		1:36.83 WAYNE SHADBOLT	67	2:10.03 HOWARD STOKER	67	2:46.86 RAY TAFT	89
2:36.10 FRANK PIEMME	90	200 M. BACK M E N 65-69		2:13.57 VAL OUCHAKOF	68	2:57.48 JOHN C RICHARDS	70
2:39.07 FRANK PIEMME	67	2:54.25 PAUL HUTINGER	90	200 M. FLY M E N 65-69		2:59.00 BOB MERRICK	72
2:39.50 ED KERSWILL	66	2:55.83 ROGER FRANKS	65	3:10.49 JOSEPH KURTZMAN	91	3:03.57 GERALD A HUESTIS	71
2:53.34 JURGEN SCHMIDT	69	2:58.49 PAUL HUTINGER	68	3:18.17 JOSEPH KURTZMAN	66	3:05.36 STEVE P CARLSON	73
2:53.65 ROBERT BLAKE	67	3:09.61 FLOYD A ELIOTT	65	3:39.38 LEE ARTH	67	3:12.43 BOB ACKER	71
2:53.85 LEE ARTH	67	3:21.64 RALPH PERRY	65	3:58.16 ART KELLEY	66	3:12.61 ALDO V DA ROSA	74
2:55.54 W MORGAN BYERS	65	3:25.91 LEE ARTH	67	4:25.76 DOUGLAS STRONG	67	3:12.70 GEORGE HUBBELL	73
2:56.22 DON KORTEN	65	3:26.38 DON KORTEN	65	4:55.02 HOWARD STOKER	67	3:15.27 RICHARD T SMITH	72
2:56.50 WAYNE SHADBOLT	67	3:34.94 GEORGE BRINTON	68	100 M. I.M. M E N 65-69		3:16.48 BARNET PHILLIPS	74
2:58.31 WIN WILSON	65	3:39.02 BOB TERRY	65	1:20.20 RAY TAFT	86	3:20.66 DICK LOIZEAUX	72
3:00.95 BERNIE GUTTILLA	66	3:44.41 WILFORD DOLPHIN	67	1:22.16 FRANK PIEMME	67	400 M. FREE M E N 70-74	
400 M. FREE M E N 65-69		3:53.26 GILBERT N YOUNG	69	1:27.39 LUMAN SUTTON	65	5:56.06 RAY TAFT	89
5:37.93 ED KERSWILL	91	50 M. BRST M E N 65-69		1:28.84 EDWARD RUDLOFF	68	6:16.53 JOHN RICHARDS	70
5:45.34 FRANK PIEMME	67	38.18 JOSEPH KURTZMAN	91	1:29.05 LEE ARTH	67	6:41.64 RICHARD T SMITH	72
5:58.36 WIN WILSON	65	40.97 JOSEPH KURTZMAN	66	1:29.61 JOSEPH KURTZMAN	66	6:47.29 GILBERT N YOUNG	70
6:13.82 LEE ARTH	67	42.12 FRANK PIEMME	67	1:32.13 JURGEN SCHMIDT	69	7:18.77 BUD JACKSON	73
6:16.52 ROBERT BLAKE	67	42.39 ARNIE FORM	65	1:33.21 GEORGE BRINTON	68	7:24.21 M.LAZDINS	71
6:18.48 JURGEN SCHMIDT	69	42.70 LEE J MIESEN	65	1:35.37 MATTHEW FLANAGAN	66	7:32.67 H.HOEPTNER	70
6:23.18 DON KORTEN	65	43.28 EDWARD RUDLOFF	68	1:35.87 DON KORTEN	65	7:33.97 TOM JACKSON	70
6:27.98 W MORGAN BYERS	65	43.45 LEE ARTH	67	1:36.45 DONALD J HUBBARD	65	7:41.69 JAMES FEENAN	72
6:29.30 WAYNE SHADBOLT	67	43.69 CARL EDWARDS	65	200 M. I.M. M E N 65-69		7:56.13 HENRY SHOSTCHUK	74
6:31.81 BOB TERRY	65	45.01 LUMAN SUTTON	65	3:03.80 FRANK PIEMME	90	7:59.59 TONY VITALE	71
6:35.60 FLOYD A ELIOTT	65	45.02 JAMES FORBES	66	3:04.49 PAUL HUTINGER	68	800 M. FREE M E N 70-74	
800 M. FREE M E N 65-69		45.58 ED SIMMERS	66	3:07.32 FRANK PIEMME	67	12:15.49 RAY TAFT	89
11:51.42 ED KERSWILL	92	100 M. BRST M E N 65-69		3:17.69 LUMAN SUTTON	65	13:26.53 ALDO V DA ROSA	74
11:51.42 ED KERSWILL	66	1:27.91 BARTON GREENBERG	89	3:19.28 LEE ARTH	67	13:43.58 RAYMOND F TAFT	73
11:51.66 FRANK PIEMME	67	1:28.32 BARTON GREENBERG	68	3:20.11 DON KORTEN	65	14:02.53 RICHARD T SMITH	72
12:00.33 WIN WILSON	65	1:30.89 JOSEPH KURTZMAN	66	3:23.84 EDWARD RUDLOFF	68	14:06.10 GILBERT N YOUNG	70
12:45.78 LEE ARTH	67	1:36.00 ARNIE FORM	65	3:27.20 JURGEN SCHMIDT	69	15:10.97 DICK LOIZEAUX	72
12:57.80 W MORGAN BYERS	65	1:36.47 EDWARD RUDLOFF	68	3:44.49 RICHARD DANIEL	66	15:48.69 JACK BURGAN	70
13:21.89 DON KORTEN	65	1:36.66 LEE J MIESEN	65	3:47.27 DOUGLAS STRONG	67	16:38.35 TONY VITALE	71
13:22.05 BOB TERRY	65	1:37.39 LEE ARTH	67	3:52.98 NORMAN GARSOE	68	17:23.87 IHRE SCHMIDT	72
13:26.34 ROBERT BLAKE	67	1:41.54 DONALD J HUBBARD	65	400 M. I.M. M E N 65-69		18:24.24 DAVID BERNSTEIN	70
13:57.81 GLYNN JONES	67	1:41.59 MATTHEW FLANAGAN	66	6:42.13 FRANK PIEMME	90	18:45.31 JOSEPH A MALLOW	71
14:12.21 JARKA BURIAN	65	1:42.89 NORMAN GARSOE	68	6:45.92 FRANK PIEMME	67	1500 M. FREE M E N 70-74	
1500 M. FREE M E N 65-69		1:45.20 ED SIMMERS	66	7:10.52 LEE ARTH	67	23:59.12 ALDO DA ROSA	88
22:19.37 FRANK PIEMME	92	200 M. BRST M E N 65-69		7:25.52 DON KORTEN	65	30:18.26 H.HOEPTNER	70
22:19.37 FRANK PIEMME	67	3:20.02 BARTON GREENBERG	89	7:43.95 EDWARD RUDLOFF	68	31:08.91 TONY VITALE	71
22:32.02 WIN WILSON	65	3:22.52 BARTON GREENBERG	68	8:06.96 ART KELLEY	66	42:45.93 T.R. JOHNSON	70
24:13.60 LEE ARTH	67	3:30.68 LEE ARTH	67	8:10.29 DOUGLAS STRONG	67	50 M. BACK M E N 70-74	
25:00.14 DON KORTEN	65	3:36.26 LEE J MIESEN	65	8:19.23 RICHARD DANIEL	66	38.44 RAY TAFT	89
25:18.46 JURGEN SCHMIDT	69	3:38.40 ARNIE FORM	65	9:06.62 GLYNN JONES	67	39.40 JOHN A DILLEY	70
26:17.09 ROBERT BLAKE	67	3:44.86 NORMAN GARSOE	68	9:25.94 HOWARD STOKER	67	40.46 RAYMOND F TAFT	73
26:39.16 GLYNN JONES	67	3:55.58 JURGEN SCHMIDT	69	11:02.63 JAY BEELER	69	41.07 ANDREW W HOLDEN	73
27:08.44 GILBERT N YOUNG	69	4:00.71 JAMES FORBES	66	*****		41.56 DON BARTLETT	70
28:03.64 JIM EDWARDS	69	4:05.62 ED SIMMERS	66	50 M. FREE M E N 70-74		42.80 BOB MERRICK	72
28:07.92 RICHARD DANIEL	66	4:10.96 DOUGLAS STRONG	67	32.11 RAYMOND HAKOMAKI	92	43.43 GAETANO PAVONE	70
50 M. BACK M E N 65-69		4:11.41 VESTER BOONE	67	32.11 RAY HAKOMAKI	71	44.90 JOHN BRICKER	72
35.54 PAUL HUTINGER	90	50 M. FLY M E N 65-69		32.52 JOHN C RICHARDS	70	45.85 ELLIOTT SCHOFIELD	70
35.35 PAUL HUTINGER	68NV	33.63 FRANK PIEMME	90	32.75 DONALD AGATE	70	46.42 BRION WINSHIP	74
38.99 FRANK PIEMME	67	34.59 FRANK PIEMME	67	33.02 ANDREW W HOLDEN	73	47.09 ROBERT A MORRISON	71

TOP TEN SHORT COURSE METERS

100 M. BACK M E N 70-74	50.97 BOB ACKER	71	1:36.40 CHARLES BREEDING	76	4:28.54 ALBERT FISHER JR	76
1:24.30 RAY TAFT	89	100 M. FLY M E N 70-74	1:37.56 WILLIAM GRANT	79	4:32.09 FRANK TILLOTSON	77
1:27.51 JOHN A DILLEY	70	1:31.20 PAUL KRUP	89	1:44.00 MAURICE STERN	76	4:36.82 SYD C HENDY
1:31.48 ANDREW W HOLDEN	73	1:42.77 BOB MERRICK	72	200 M. FREE M E N 75-79		5:19.89 LYMAN SCHERMERHO
1:32.30 RAYMOND F TAFT	73	1:46.93 ALDO V DA ROSA	74	2:55.63 KELLEY LEMMON	88	50 M. BRST M E N 75-79
1:39.55 ALDO V DA ROSA	74	1:49.84 RAYMOND F TAFT	73	3:11.23 NORRIS FLUKE	75	45.73 KELLEY LEMMON
1:39.61 RAY HAKOMAKI	71	1:56.27 JOHN BRICKER	72	3:17.22 BARNET PHILLIPS	75	42.95 PAUL KRUP
1:42.64 BOB MERRICK	72	2:08.23 JACK BURGAN	70	3:24.21 JERRY R SIEFERT	75	46.71 ROG CHAMBERLAIN
1:42.70 TOM JACKSON	70	2:10.17 BOB ACKER	71	3:25.57 WOODY BOWERSOCK	79	47.84 JOHN BROUK
1:44.74 JOHN BRICKER	72	2:16.16 HERMAN FOREST	70	3:29.21 DEXTER WOODFORD	78	48.82 MURRAY EAGER
1:47.03 ROBERT WIEGAND	70	3:08.11 JAY BEELER	70	3:30.36 HARRY BARTLETT	76	50.56 CLIFF CROOME
1:47.61 ELLIOTT SCHOFIELD	70	3:22.32 T.R. JOHNSON	70	3:38.50 JOHN D. JOHNSTON	76	51.12 JOHN LEVETT
200 M. BACK M E N 70-74	200 M. FLY M E N 70-74		3:39.31 JOHN BROUK	75	51.64 MIKE OFFNER	78
3:07.57 RAY TAFT	89	3:31.97 ANTON CERER	89	3:43.12 HENRY SHOSTCHUK	75	55.62 STAN PUDELL
3:26.14 RAYMOND F TAFT	73	3:47.83 PAUL KRUP	74	3:47.62 JOHN LEVETT	75	56.37 WILLIAM GRANT
3:35.20 JOHN BRICKER	72	4:11.69 ALDO V DA ROSA	74	400 M. FREE M E N 75-79		56.67 ALLAN DELAY
3:37.16 GAETANO PAVOME	70	5:00.78 BOB ACKER	71	6:23.81 DEXTER WOODFORD	89	100 M. BRST M E N 75-79
3:39.16 ALDO V DA ROSA	74	7:31.21 T.R. JOHNSON	70	6:47.44 NORRIS FLUKE	75	1:37.39 ALDO DA ROSA
3:43.84 BRION WINSHIP	74	100 M. I.M. M E N 70-74		6:57.79 DEXTER WOODFORD	78	1:37.39 ALDO V DA ROSA
3:44.00 BOB MERRICK	72	1:21.87 RAY TAFT	89	7:05.05 LYNN SURLS	75	1:40.60 PAUL KRUP
3:46.18 RAY HAKOMAKI	71	1:26.89 JOHN RICHARDS	70	7:07.49 GEORGE RAFTER	75	1:50.81 MURRAY EAGER
3:50.02 TOM JACKSON	70	1:27.60 RAYMOND F TAFT	73	7:24.98 HARRY BARTLETT	76	1:54.56 ROG CHAMBERLAIN
3:56.11 GEORGE HUBBELL	73	1:32.46 BOB MERRICK	72	8:00.25 WOODY BOWERSOCK	79	1:57.12 MIKE OFFNER
3:57.52 JOHN A DILLEY	70	1:33.62 GERALD A HUESTIS	71	8:13.09 ROG CHAMBERLAIN	75	1:58.74 JOHN BROUK
50 M. BRST M E N 70-74		1:35.55 BIRCH DAVIDSON	74	8:27.91 MAURICE STERN	76	2:05.85 JOHN LEVETT
40.81 PAUL KRUP	89	1:36.10 ALDO V DA ROSA	74	9:06.56 FRANK TILLOTSON	77	2:05.90 DEXTER WOODFORD
42.40 PAUL KRUP	74	1:37.81 PAUL KRUP	74	9:39.98 DICK KURTZ	75	2:08.28 STAN PUDELL
42.61 TOM DOWELL	70	1:41.41 JERRY R SIEFERT	74	800 M. FREE M E N 75-79		2:20.85 WILLIAM GRANT
44.02 ROBERT A MORRISON	70	1:45.98 STEVE P CARLSON	73	13:17.26 DEXTER WOODFORD	89	200 M. BRST M E N 75-79
44.36 BOB MERRICK	72	1:53.77 ROBERT WIEGAND	70	13:20.75 ALDO V DA ROSA	75	3:36.71 E. DON MCCULLOUGH
44.99 BIRCH DAVIDSON	74	200 M. I.M. M E N 70-74		14:14.55 NORRIS FLUKE	75	3:36.85 ALDO V DA ROSA
45.11 ALDO V DA ROSA	74	3:08.13 RAY TAFT	89	16:17.45 WOODY BOWERSOCK	79	3:44.19 PAUL KRUP
46.04 JOHN BRICKER	72	3:21.38 RAYMOND F TAFT	73	23:45.79 BILL MCCARTHY	75	4:14.70 MIKE OFFNER
48.12 WALTER LYNCH	71	3:32.04 ALDO V DA ROSA	74	1500 M. FREE M E N 75-79		4:35.08 JOHN BROUK
50.18 BUD JACKSON	72	3:36.32 PAUL KRUP	74	26:04.74 DEXTER WOODFORD	89	4:43.97 JOHN D. JOHNSTON
50.77 HUGH COYLE	72	3:52.26 RICHARD T SMITH	72	26:52.41 NORRIS FLUKE	75	5:23.31 FRANK TILLOTSON
100 M. BRST M E N 70-74		3:56.02 TOM A MC CALL	70	39:49.92 BILL MCCARTHY	75	5:23.38 ERNEST VAN HORN
1:32.13 ALDO DA ROSA	88	3:59.96 BOB ACKER	71	42:11.34 C.J. HAMILTON	78	6:59.39 LOU PARKER
1:36.37 JOHN RICHARDS	70	4:11.98 JACK BURGAN	70	61:20.00 DEL SCHMAND	76	50 M. FLY M E N 75-79
1:39.69 BOB MERRICK	72	5:23.84 JAY BEELER	70	50 M. BACK M E N 75-79		42.10 PAUL KRUP
1:40.10 ALDO V DA ROSA	74	6:20.71 T.R. JOHNSON	70	41.93 EDWARD SHEA	92	42.10 PAUL KRUP
1:40.44 TOM DOWELL	70	400 M. I.M. M E N 70-74		42.33 EDWARD SHEA	78	46.81 GEORGE RAFTER
1:45.88 RAYMOND F TAFT	73	6:50.27 RAY TAFT	89	42.82 A.WEGHE	75	49.04 CLIFF CROMME
1:46.85 ROBERT A MORRISON	71	7:30.40 RAYMOND F TAFT	73	44.54 BILL WOOSLEY	75	50.07 WOODY BOWERSOCK
1:47.40 ANDREW W HOLDEN	73	7:38.82 GERALD A HUESTIS	71	45.37 NORRIS FLUKE	75	50.13 WILLIAM GRANT
1:51.85 BUD JACKSON	72	7:56.86 ALDO V DA ROSA	74	46.66 CLIFF CROOME	75	50.33 ROG CHAMBERLAIN
1:53.79 JACK BURGAN	70	8:22.92 RICHARD T SMITH	72	49.10 WOODY BOWERSOCK	79	59.30 BERT KASSELL
1:56.70 TED SIMON	70	8:34.23 BOB ACKER	71	51.50 WILLIAM GRANT	79	1:02.84 ROBERT SMITH
200 M. BRST M E N 70-74		13:20.35 T.R. JOHNSON	70	54.08 FRANK TILLOTSON	77	1:47.25 MAX LUNA
3:24.66 ALDO DA ROSA	88	*****		54.59 ALBERT FISHER JR	76	2:16.82 LOU PARKER
3:33.15 JOHN RICHARDS	70	50 M. FREE M E N 75-79		55.10 MIKE OFFNER	78	100 M. FLY M E N 75-79
3:42.92 ALDO V DA ROSA	74	32.78 KELLEY LEMMON	88	100 M. BACK M E N 75-79		1:36.80 PAUL KRUP
3:44.53 PAUL KRUP	74	33.58 WOODY BOWERSOCK	79	1:34.84 EDWARD SHEA	90	1:36.80 PAUL KRUP
3:44.76 BOB MERRICK	72	34.84 BARNET PHILLIPS	75	1:34.13 A.WEGHE	75NV	1:51.92 GEORGE RAFTER
4:07.18 ROBERT A MORRISON	70	35.71 LYNN SURLS	75	1:36.05 EDWARD SHEA	78	2:11.86 WILLIAM GRANT
4:08.87 BUD JACKSON	72	36.32 JERRY R SIEFERT	75	1:36.44 NORRIS FLUKE	75	4:13.49 MAX LUNA
4:10.25 JACK BURGAN	70	37.75 WILLIAM GRANT	79	1:48.03 BILL WOOSLEY	75	200 M. FLY M E N 75-79
4:10.74 TOM A MC CALL	70	38.19 JOHN BROUK	75	1:59.91 ALBERT FISHER JR	76	3:49.00 PAUL KRUP
4:21.59 BOB ACKER	71	38.37 ALLAN DELAY	77	2:03.76 WILLIAM GRANT	79	3:49.00 PAUL KRUP
4:22.54 KHOSROW SHADBEH	71	39.00 BERT KASSELL	79	2:03.99 CHARLES BREEDING	76	4:34.32 JOHN D. JOHNSTON
50 M. FLY M E N 70-74		40.25 HARRY BARTLETT	76	2:10.29 STAN PUDELL	76	100 M. I.M. M E N 75-79
36.09 ANDREW HOLDEN	90	40.34 CHARLES BREEDING	76	2:11.30 BERT KASSELL	79	1:32.84 ALDO DA ROSA
37.33 ANDREW W HOLDEN	73	100 M. FREE M E N 75-79		2:15.86 ED ALLEN	77	1:32.84 ALDO V DA ROSA
42.02 RAYMOND F TAFT	73	1:15.94 KELLEY LEMMON	88	200 M. BACK M E N 75-79		1:37.57 PAUL KRUP
42.90 BOB MERRICK	72	1:22.86 JERRY R SIEFERT	75	3:27.82 EDWARD SHEA	91	1:38.00 A.WEGHE
45.67 DON BARTLETT	70	1:24.31 NORRIS FLUKE	75	3:29.04 EDWARD SHEA	78	1:40.34 NORRIS FLUKE
46.07 PAUL CRAGO	71	1:24.55 BARNET PHILLIPS	75	3:54.71 BILL WOOSLEY	75	1:42.58 JERRY R SIEFERT
46.40 ROBERT A MORRISON	71	1:28.28 WOODY BOWERSOCK	79	4:02.92 ROG CHAMBERLAIN	75	1:43.03 GEORGE RAFTER
48.55 ALDO V DA ROSA	74	1:33.09 DEXTER WOODFORD	78	4:03.77 CLIFF CROMME	75	1:45.86 CLIFF CROMME
49.30 RICHARD T SMITH	72	1:33.44 JOHN BROUK	75	4:15.11 MIKE OFFNER	78	1:50.46 WOODY BOWERSOCK
50.53 JACK BURGAN	70	1:33.59 HARRY BARTLETT	76	4:21.17 WOODY BOWERSOCK	79	1:51.22 ROGER CHAMBERLAIN

TOP TEN SHORT COURSE METERS

1:51.39 BILL WOOSLEY 75	1:07.16 DAN DOTTERWEICH 84	19:03.39 GUS LANGNER 89
200 M. I.M. M E N 75-79	1:11.37 DON NEEFE 84	1500 M. FREE M E N 85-89
3:22.14 ALDO DA ROSA 92	1:32.54 HENRY SOBBE 80	32:20.20 GUS LANGNER 88
3:22.14 ALDO V DA ROSA 75	1:34.68 RALPH TRACY 82	NO SWIMMERS
3:39.79 NORRIS FLUKE 75	100 M. BACK M E N 80-84	50 M. BACK M E N 85-89
3:55.28 ROG CHAMBERLAIN 75	1:50.89 HERB EISENSCHMIDT87	57.97 PETER JURCZYK 90
4:05.20 GEORGE L. RAFTER 76	2:03.25 JACK HOEY 83	1:02.86 PETER JURCZYK 87
4:16.47 BILL WOOSLEY 75	2:11.27 JOHN GLENN 82	1:13.10 JOE KAUFMAN 87
4:37.28 WOODY BOWERSOCK 79	3:08.77 RALPH TRACY 82	1:18.47 GUS LANGNER 88
400 M. I.M. M E N 75-79	3:25.61 HENRY SOBBE 80	1:20.20 HARRY JAGGERS 85
7:20.86 ALDO DA ROSA 92	200 M. BACK M E N 80-84	100 M. BACK M E N 85-89
7:20.86 ALDO V DA ROSA 75	4:01.12 HERB EISENSCHMIDT87	2:12.69 PETER JURCZYK 90
7:37.70 NORRIS FLUKE 75	4:27.85 JACK HOEY 83	2:33.87 JOE KAUFMAN 87
8:51.50 CLIFF CROOME 75	5:35.59 JOHN GLENN 82	2:51.51 HARRY JAGGERS 85
8:58.16 GEORGE L. RAFTER 76	50 M. BRST M E N 80-84	200 M. BACK M E N 85-89
9:17.64 JOHN D. JOHNSTON 76	55.32 JIM PENFIELD 89	4:55.62 PETER JURCZYK 90
10:38.34 WILLIAM GRANT 79	57.47 DAN DOTTERWEICH 84	5:08.56 PETER JURCZYK 87
*****	57.86 FRITZ HAUFF 81	5:21.96 JOE KAUFMAN 87
50 M. FREE M E N 80-84	1:03.38 BILL MARQUETTE 83	50 M. BRST M E N 85-89
37.85 GERSON SOBEL 91	1:04.65 JOHN GLENN 82	1:05.82 GUS LANGNER 88
37.92 GERSON SOBEL 82	1:04.71 FRED SHERRIFF 80	1:24.95 GUS LANGNER 89
43.08 JOHN GLENN 82	1:30.91 CONRAD SKARSTEN 84	100 M. BRST M E N 85-89
44.69 DAN DOTTERWEICH 84	100 M. BRST M E N 80-84	2:31.20 GUS LANGNER 89
45.84 FRED HAUFF 80	2:09.01 JIM PENFIELD 89	NO SWIMMERS
49.53 ANDY HAAPANEN 81	2:16.82 DAN DOTTERWEICH 84	200 M. BRST M E N 85-89
55.14 FRED SHERRIFF 80	2:37.91 JOHN GLENN 82	5:30.76 GUS LANGNER 88
59.92 JOHN MAXWELL 84	200 M. BRST M E N 80-84	NO SWIMMERS
1:01.94 LEE 'KIP' KING 80	5:03.34 WILLIAM SHARE 89	50 M. FLY M E N 85-89
1:02.88 HENRY SOBBE 80	NO SWIMMERS	1:21.90 ABE OLANOFF 91
100 M. FREE M E N 80-84	50 M. FLY M E N 80-84	NO SWIMMERS
1:27.87 GERSON SOBEL 91	49.08 JESSE COON 91	100 M. I.M. M E N 85-89
1:29.16 GERSON SOBEL 82	52.39 JESSE COON 81	2:23.03 HERB EISENSCHMIDT91
1:32.48 HERBERT HOWE 80	58.53 FRED HAUFF 80	NO SWIMMERS
1:53.53 ANDY HAAPANEN 81	1:28.93 LEE 'KIP' KING 80	200 M. I.M. M E N 85-89
1:57.82 JOHN GLENN 82	100 M. FLY M E N 80-84	5:02.31 HERB EISENSCHMIDT91
1:57.96 DAN DOTTERWEICH 84	2:07.29 JESSE COON 91	NO SWIMMERS
2:05.22 JOHN MAXWELL 84	2:15.14 JESSE COON 81	400 M. I.M. M E N 85-89
2:09.83 LEE 'KIP' KING 80	200 M. FLY M E N 80-84	10:47.13 HERB EISENSCHMIDT91
2:13.26 FRED SHERRIFF 80	5:14.66 JESSE COON 91	NO SWIMMERS
2:28.33 HENRY SOBBE 80	5:30.49 JESSE COON 81	*****
2:56.47 JIM KIERNAN 82	100 M. I.M. M E N 80-84	50 M. FREE M E N 90-94
200 M. FREE M E N 80-84	1:53.59 HERB EISENSCHMIDT87	1:14.28 PAUL SPANGLER 89
3:22.37 GERSON SOBEL 91	3:13.58 LEE 'KIP' KING 80	NO SWIMMERS
3:25.47 HERBERT HOWE 80	200 M. I.M. M E N 80-84	100 M. FREE M E N 90-94
3:29.97 GERSON SOBEL 82	4:36.38 HERB EISENSCHMIDT87	2:49.33 PAUL SPANGLER 90
4:23.94 ANDY HAAPANEN 81	NO SWIMMERS	NO SWIMMERS
4:33.49 JOHN GLENN 82	400 M. I.M. M E N 80-84	200 M. FREE M E N 90-94
4:52.94 LEN BRISCO 80	9:25.63 HERB EISENSCHMIDT88	5:51.45 PAUL SPANGLER 90
5:45.75 HENRY SOBBE 80	11:16.94 JESSE COON 81	NO SWIMMERS
6:26.28 JIM KIERNAN 82	*****	400 M. FREE M E N 90-94
400 M. FREE M E N 80-84	50 M. FREE M E N 85-89	11:09.76 PAUL SPANGLER 89
7:30.51 HERBERT HOWE 92	44.61 GUS LANGNER 89	NO SWIMMERS
7:30.51 HERBERT HOWE 80	51.49 GUS LANGNER 88	1500 M. FREE M E N 90-94
9:33.85 ANDY HAAPANEN 81	54.92 JOE KAUFMAN 87	51:43.20 PAUL SPANGLER 90
10:12.34 LEN BRISCO 80	1:00.60 MAX ENGEL 88	NO SWIMMERS
11:00.95 DON NEEFE 84	1:04.26 HARRY JAGGERS 85	50 M. BACK M E N 90-94
11:06.33 FRED SHERRIFF 80	100 M. FREE M E N 85-89	1:29.99 TOM LANE 89
800 M. FREE M E N 80-84	1:41.46 GUS LANGNER 89	NO SWIMMERS
15:07.97 HERBERT HOWE 92	1:59.04 GUS LANGNER 88	50 M. BRST M E N 90-94
15:07.97 HERBERT HOWE 80	2:13.11 JOE KAUFMAN 87	1:50.16 TOM LANE 89
21:29.40 ANDY HAAPANEN 81	2:47.58 HARRY JAGGERS 85	NO SWIMMERS
22:23.34 LEN BRISCO 80	200 M. FREE M E N 85-89	
1500 M. FREE M E N 80-84	3:48.20 GUS LANGNER 89	
29:58.32 GUS LANGNER 86	4:10.27 GUS LANGNER 88	
40:22.98 LEN BRISCO 80	4:59.48 JOE KAUFMAN 87	
50 M. BACK M E N 80-84	400 M. FREE M E N 85-89	
50.13 HERB EISENSCHMIDT87	7:54.24 GUS LANGNER 88	
55.29 JACK HOEY 83	9:20.50 GUS LANGNER 89	
56.39 JOHN GLENN 81	10:10.03 JOE KAUFMAN 87	
1:00.72 BILL MARQUETTE 83	800 M. FREE M E N 85-89	
1:01.58 FRED SHERRIFF 80	16:53.90 GUS LANGNER 88	

TOP TEN SHORT COURSE METERS

*****		CATHERINE KOHN		GENNIFER DEMANDER	38	
RELAYS: WOMEN 200 M. FREE		LESLIE COOPER		ELLA CARMICHAEL	68	240+
*****		JEANNE HANISCH		KIM BENT	30	R:ST LOUIS 92 2:46.95
76 +		SBAY 2:00.04		ANN BRUCE	37	JEAN SCHNORBUS
R:UNIV HOUSTON 88	1:59.79	SUSAN STOHRER 29		CONN 2:33.11		CAROL TAYLOR
PEGGY PLOUGH		DEDE MOORE 32		RONNIE KAMPHAUSEN 58		ARDETH MUELLER
STACY JONES		AMY QUINN 30		JENNIFER HOUSE 37		CHERYL CORBETT
JANE HALLENBECK		CAROLE SHIGAKI 37		MARIAN BRENNER 62		ST. LOUIS 2:46.95
SANDY JOHNSON		RMM 2:10.47		MARCELLE BACLASKI 23		JEAN SCHNORBUS 66
CTM 2:16.59		ELLEN ATKINSON 28		SBAY 2:35.73		CAROL TAYLOR 63
WENDY BATSON 19		LAURIE STEINHAUS 36		J.SANTILLANO 39		ARDETH MUELLER 51
MARY FINN 36		JEAN BUSTARD 34		MARCIA BARRY 44		CHERYL CORBETT 60
KARIN FINN 19		LAURA SKOTNICKI 38		JUDY WILLIAMSON 49		SAN DIEGO SWIM 2:47.14
DIANNE BATSON 24		OREG 2:12.13		PATRICIA BAXTED 55		ALICIA COLEMAN 66
		LAURA K SCHOB 33		MICHIGAN 2:51.04		DIANA M SILVA 70
100+		M.HOLMBERG 39		HOPE TESKA 39		BOBBI I TURCOTTE 64
R:AIR FORCE 91	1:59.29	NANCY COLTON 32		BETTY HANSEN 46		BARBARA G DUNBAR 43
JUDY HUPP		JOANIE M KREHBIEL 30		ALISON HEINS 51		O*H*I*O MASTERS 3:29.20
KAREN BURTON		CONN 2:13.98		SUSAN BOND 55		BETTY KAKOS 61
ANNA PLANTIER		SUE ZAGELKO 42		BOLT 2:53.61		SYLVIA HILL 71
KIMBERLY ARATA		ANNE GRUCE 29		VICKI BUCCINO 46		MARY CULHANE 71
ROSE 1:57.74NV		ELIZ CUSANELLI 28		BARBARA BOWER 54		JOAN HOFFMANN 63
MARY BERGEN 22		TERRY HELLGNER 32		DEBORAH PEARSALL 40		BOLT 5:14.12
JUDITH MURPHY 33		MICHIGAN 2:14.31		ELLEN HALL 41		BETTY RUSSO 61
CYNTHIA MILLER 22		CAROLYN PETRY 31		SO. CALIFORNIA 2:54.68		JOYCE CONSTANCE 60
AIMEE BERZINS 25		LINDA TSOUMAS 34		MELINDA KALIN 35		LOUISE OFFNER 74
O*H*I*O MASTERS 2:01.89		DENISE MARTIN 34		GEORGIA BELLER 43		RUTH HAMILTON 78
JENNIFER AUCOTT 30		JUDY MARKUSIC 37		KOTOKO KROESEN 67		
JENNIFER UEBELE 27		BOLT 2:17.52		SYLVIA GLENN 54		280+
MARY UBERT 28		MARY BETH CORONA 25		HSAM 2:57.99		R:WALNUT CREEK 89 3:16.06
ERIN E. BORDEN 30		CINDY HALE 33		CECILY MCNEIL 47		MARY JANE REEVES
MICHIGAN 2:02.88		KATHERINE GREGORY 40		M.VALDERHAUG 51		SALLY JOY
LESLIE HANKINS 22		NANCY EWELL 24		CHRISTINE BIBY 45		JEAN DURSTON
ANNE ASHER 27		BERKELEY 2:19.49		SHERYL WALKER 36		JAE HOWELL
KRISTIN NELSON 26		CHERILYN GARCIA 24		PARIS ISLAND 3:07.28		MICHIGAN 3:26.77
AVERY MYERS 25		SUSAN KIRK 32		VICTORIA TRACY 36		LOIS NOCHMAN 67
TRIAD 2:05.50		JUDY LEE 42		LAURIE SPERRY 28		ALICE BRANDON 65
JANET STITES 28		LINDA KUHN 33		GAMBRELL FOSTER 53		EDITH GLUSAC 73
BEBE OLSON 29		HSAM 2:21.05		KAREN FADY 50		FRANCES MORSE 75
KERI FITZGERALD 22		LYNN MACDONALD 37				ST. LOUIS 3:34.27
KARA MROBERTS 24		ANNE LANGSAFF 31		200+		DORIS PETERS 69
WEST HOLLYWOOD 2:10.96		MAUREEN MARKS 39		R:TAMALPAIS 89 2:11.64		EDITH HENDRY 81
E.HALOJZKA 28		TINA DANIELS 36		ANGELA KONIG		A. CARRIER 73
ALEXIA NALEWAIK 24		MICHIGAN 2:28.55		LAVERNE ADAMS		REGAN KENNER 68
ERIN CHILDS 34		PAT MANKIN 37		SHERRY RADEMACHER		*****
ANDREA DEVUONO 30		JULIE FINN 27		NANCY RIDOUT		RELAYS: WOMEN 200 M. MEDLEY
RALEIGH AREA 2:13.06		PEGGY DANKERT 39		SCAQ 2:29.48		*****
SHERRY HART 37		ANN MCCLURE 27		JACQUELINE DUNLOP 61		76 +
SHARON BARRELL 31		MOVY 2:32.80		SYLVIA GLENN 54		R:PACIFIC NW 90 2:22.24
BARBARA WALSTON 26		SHARON LAPPIN 23		LINDA TEPE 45		JULIE CORMAN
LINDSAY NATA 19		WENDY WHITE 29		BONNIE ADAIR 40		BETH BRENNER
ES 2:20.45		M. BULMAN-GRIGGS 40		HSAM 2:49.24		STEFANI FERSCH
ALLISON LANDRY 22		SHARON MAYO 35		M.VALDERHAUG 51		CAROL BROWN
TRACY WOOD 28				MARILYN RAMEY 52		DAVIS AQUATIC 2:24.53
JENNIFER FORD 31		160+		CAROL SING 51		LYNN LATHOWER 22
C. HUESEL 22		R:DC MASTERS 89 2:01.10		NANCY REED 65		CHRISTINE WINN 26
PARIS ISLAND 2:29.64		SUSAN SKIFF		O*H*I*O MASTERS 2:49.63		KIM MONEYMAKER 23
TRACY SWOPE 30		BARBARA ZAREMSKI		LUISE EASTON 53		AIME DIRKS 21
PAM DRAFTS 35		JAYNE BRUNER		DORIS LOCKER 48		DAVIS AQUATIC 2:40.63
ALISON SENNELLO 27		JACKI HIRSTY		ROBERTA BOBERSKI 51		JENNIFER BLAKE 23
MARIA CHAPMAN 25		DC MASTERS 2:14.90		PRUDENCE HALL 53		MARY GREAVES 20
NATL CAPITAL Y 2:33.80		ANN LYTTLE 44		NOA 2:56.84		JULIE THOMPSON 20
WENDY WOODS 26		ANN SVANSON 46		KATHLEEN PILIE 48		KELLY CROSBY 19
C.PHILLIPS 27		NANCY KIRKENDALL 49		Y.FRISCHHERTZ 75		
DEBRA PITTS 29		JOANN LEILICH 53		PATRICIA ARNOLD 53		100+
DIANE ALLEVA 27		CHAPEL HILL 2:18.94		COLLEEN PILIE 24		R:ARIZONA 92 2:16.25
		NANCY DURHAM 40		MICHIGAN 3:20.40		MONICA BAILEY
120+		KORINA BOYLE 36		PAT HILL 65		STACY COSTA
R:ST LOUIS 89	1:58.02	JUDY ORTIZ 50		MARY WILLIAMS 60		RANE SMITH
SUSAN RICHMOND		MARIE PAUWELS 54		JOSELLA FAUL 55		LISA SARTORI
		RMM 2:26.38		JOAN SHEINWALD 43		ARIZ 2:16.25

TOP TEN SHORT COURSE METERS

MAUDENE SCHULTZ	68	SBAY B	6:35.96	SUE MATSCHNER		HSAM	15:18.33
ZADA TAFT	73	CHRISTINE BAXTED	28	ROBERTA MILANDER		TINA DANIELS	36
ST. LOUIS	8:18.20	J.SANTILLANO	39	NO RELAY TEAMS		JUDY TILARO	57
DORIS PETERS	69	NADINE THOMPSON	33			CAROL SING	51
EDITH HENDRY	81	DIANA TRACY	39	100+		ELFRIEDE LEHTO	59
REGAN KENNER	68			R:AIR FORCE	91 9:48.14		
A. CARRIER	73			KIMBERLY ARATA		240+	
*****		160+		KAREN BURTON		R:SAN DIEGO	92 13:34.12
RELAYS: WOMEN 400 M. MEDLEY		R:ESCONDIDO	90 6:57.48	ANNA PLANTIER		SUSAN RITTENHOUSE	
*****		SYLVIA BRESNIK		JUDY HUPP		BOBBI TURCOTTTE	
76 +		DEBORAH LYON		EMPIRE STATE	9:53.92	DIANA SILVA	
R:EMPIRE STATE	91 5:07.60	TERRI KING		COLLEEN DRISCOLL	34	BETSY JORDAN	
DEANNA COLACITO		BONNIE NOLAN		CHERYL KUPAN	28	SAN DIEGO SWIM	13:34.12
MONICA LEE		NO RELAY TEAMS		DENISE DEPPERLER	25	SUSAN RITTENHOUSE	54
CHERYL KUPAN		200+		ROBIN MOLESE	28	BOBBI I TURCOTTE	64
KRISTIN BROOKS		R:SAN DIEGO	90 6:16.07	IEM	13:51.08	DIANA M SILVA	70
NO RELAY TEAMS		SUSAN RITTENHOUSE		LYNN REILLY	25	BETSY T JORDAN	55
		ADRIENNE PIPES		NANCY KYLE	23	ST. LOUIS	13:35.98
100+		BARBARA DUNBAR		VALERIE HOLMAN	48	JEAN SCHNORBUS	66
R:ST. LOUIS	87 4:58.83	JANET LAMOTT		CHERESE EDER	19	CAROL TAYLOR	63
SUSAN RICHMOND		LAKESIDE	7:14.71			ARDETH MUELLER	51
JEANNE HANISCH		JOYCE VOIT	58	120+		CHERYL CORBETT	60
LESLIE COOPER		CAROL FERGUSON	61	R:OHIO	92 9:48.06	O*H*I*O MASTERS	15:59.20
KELLY BURKE		JEAN HENDERSON	46	ERIN BORDEN		LUISE EASTON	53
LAKESIDE	4:57.82NV	MARY ANN STONE	59	JOANNE BOWSER		MARIANNE BROGAN	57
SUSAN WISMAN	29	O*H*I*O MASTERS	7:19.67	MARY UBERT		SYLVIA HILL	71
MARGARET DUNCAN	30	ROBERTA BOBERSKI	51	JENNIFER UEBELE		BETTY KAKOS	61
PAM HAEBERLIN	29	LUISE EASTON	53	O*H*I*O MASTERS	9:48.06		
SUSAN AUGUSTUS	25	LILLY KRON	60	ERIN E. BORDEN	30	280+	
AFAM	6:07.11	DORIS LOCKER	48	JOANNE E. BOWSER	38	R:ST. LOUIS	91 15:49.09
SIAN ASHENDEN	28	ST. PETE MASTER	7:29.02	MARY UBERT	28	CAROL TAYLOR	
ANNA PLANTIER	29	BARBARA ALLEN	59	JENNIFER UEBELE	27	DORIS PETERS	
ALEXANDRA FABBRO	28	MARGIE SIHSIC	52	HSAM	10:16.03	EDITH HENDRY	
KELLY LAZERSON	31	ELAINE BROMWICH	49	VICKY DAVIDSON	28	ANNALOU CARRIER	
		SANDY STEER	53	PATTY STARKS	32	SAN MATEO	16:05.25
		HSAM	7:34.31	ANNE LANGSAFF	31	AUDREY ETIENNE	76
120+		MAUREEN MARKS	39	REBECCA JACKMAN	29	M.KNOCHENHAUER	65
R:EMPIRE STATE	92 4:53.87	MARILYN RAMEY	52	SBAY	10:29.76	MAUDENE SCHULTZ	68
KAREN FARNSWORTH		CAROL SING	51	SUSAN STOHRER	29	ZADA TAFT	73
ROBIN MOLESE		ELFRIEDE LEHTO	59	ANN FINLEY	30	*****	
CHERYL KUPAN				DEDE MOORE	32	RELAYS: M E N 200 M. FREE	
COLLEEN DRISCOLL				NADINE THOMPSON	33	*****	
EMPIRE STATE	4:53.87	240+				76 +	
KAREN FARNSWORTH	36	R:ST LOUIS	92 6:24.68	160+		R:MICHIGAN	92 1:43.64
ROBIN MOLESE	28	REGAN KENNER		R:SOUTH BAY WAVES	92 10:41.55	MICHAEL BELL	
CHERYL KUPAN	28	CAROL TAYLOR		J. SANTILLANO		STUART NIXON	
COLLEEN DRISCOLL	34	ARDETH MUELLER		CAROLE SHIGAKI		JIM WALLACE	
HSAM	5:12.75	JEAN SCHNORBUS		MARCIA BARRY		DAN BEATTY	
VICKY DAVIDSON	28	ST. LOUIS	6:24.68	MIMI FRANK		MICHIGAN	1:43.64
STACY JOHNSON	29	REGAN KENNER	68	SBAY	10:41.55	MICHAEL BELL	23
PATTY STARKS	32	CAROL TAYLOR	63	J.SANTILLANO	39	STEWART NIXON	23
ANNE LANGSAFF	31	ARDETH MUELLER	51	CAROLE SHIGAKI	37	JIM WALLACE	28
SBAY	5:18.24	JEAN SCHNORBUS	66	MARCIA BARRY	44	DANIEL BEATTY	25
CAROLE SHIGAKI	37			HIMI FRANK	45		
SUSAN STOHRER	29	280+		SBAY B	11:24.20	100+	
DEDE MOORE	32	R:SAN MATEO	92 8:16.37	JANET SHARP	50	R:LAKESIDE	89 1:40.98
MARCIA BARRY	44	NANCY BARNES		JUDY WILLIAMSON	49	ROBERT PEARSON	
BERKELEY	5:29.08	MAUDENE SCHULTZ		DIANA TRACY	39	MICHAEL HIGGS	
JOAN PFINGRAFF	38	ZADA TAFT		PATRICIA BAXTED	55	KIRK BUESE	
SUSAN KIRK	32	AUDREY ETIENNE		IEM	12:36.52	SAM BLYTHE	
KATHY LYNCH	27	SAN MATEO	8:16.37	MARGARET HAIR	36	MICHIGAN	1:49.21
LINDA KUHN	33	NANCY BARNES	64	MAIDY KRESS	41	JOHN STENROOS	28
SAN MATEO	6:09.48	MAUDENE SCHULTZ	68	SANDY MCCOY	48	TOM HANKINS	26
DONNA DUNN	44	ZADA TAFT	73	CAROLYN KENT	46	DAN QUILL	27
KARA MABRY	25	AUDREY ETIENNE	76			JOHN HAUSWIRTH	30
JESSICA RHEA	24	*****		200+		MICHIGAN	1:50.27
VAL DUNN	42	RELAYS: WOMEN 800 M. FREE		R:SAN DIEGO	90 12:44.99	BRIAN MASTENBROOK	33
IEM	6:26.16	*****		GINI BURNS		ERIC HARDEN	21
MARGARET HAIR	37	76 +		BARBARA DUNBAR		JIM JENNINGS	22
CINDY CLUTTER	32	R:SPACE COAST	87 10:55.74	ADRIENNE PIPES		BOB JENNINGS	26
CAROLYN KENT	47	LISA SIDOR		DIANA SILVA		CTM	1:51.17
WHITNEY PARSONS	26	CHERIE HUTMAN					

TOP TEN SHORT COURSE METERS

HARRY SAMUELS	37	MYAJ	1:50.40	PETER RIDDLE	54	280+	
HENRY MATHER	27	RICK LAUDIN	34	STEVE MOSELEY	54	R:OREGON	90 2:13.84
JIM DRAUGHN	19	ROBERT HUGHES	39	RICK KOZLOWSKI	40	EARL WALTER	
RICK DANIELSON	22	CHRIS PRATOR	32	EMPIRE STATE	2:06.01	FORBES MACK	
BERKELEY	1:54.68	MICHAEL BRADY	23	NORMAN SHELDON	61	GERALD HUESTIS	
MATTHEW SWEENEY	27			DICK PEARSON	46	ANDREW HOLDEN	
DON DIPALMA	27	160+		JOE BOLZE	52	LONG BEACH	2:36.86
BRAD MAGEE	26	R:SWAM	91 1:41.93	CHRIS JONES	46	ED ALLEN	77
CHRIS JONES	22	CHRIS MACCUDRY		BOLT	2:09.01	WILLIAM DEMASTUS	67
HSAM	1:56.11	RIC NESBIT		DICK BOWER	62	WOODY BOWERSOCK	79
TODD ROYAL	27	JERRY HEIDENREICH		BOB RODRIGUE	58	EMILE ACHEE	66
RANDALL EICKHOFF	27	BRYAN AUSTIN		BOB REIMERS	49	BOLT	3:04.36
JEFF REILLY	31	MICHIGAN	1:48.24	GREG BORDES	35	N. HEDRICK	68
CESAR ROMERO	32	WILLIAM REID	41	MICHIGAN	2:12.31	RICHARD DANIEL	66
CRAW	2:08.51	CHRIS WEBB	40	ELMER EGELKRAUT	58	MIKE OFFNER	78
JASON CHANSLOR	21	KURT GERHARDT	41	ALBERT MORLEY	54	ELMER FROST	69
CHARLES BOMBET	28	ROGER LYONS	39	TOM REIGEL	62	COLONIALS 1776	3:23.66
JEFF NELSON	37	HSAM A	1:50.58	DOUG MARKUSIC	50	RICHARD TAYLOR	74
GREG MONCADA	31	LEE MENCH	40	RALEIGH AREA	2:18.53	HUGH COYLE	72
120+		JERRY O'MARA	45	PHILIP EISENHART	49	NORMAN GARSOE	68
R:BAYLOR/LONESTAR92	1:37.89	DOUGLAS SELBY	47	BILL ALEXANDER	50	HOWARD BURNS	71
RICHARD HESS		MIKE TOPE	37	JAMES GREEN	47	CONN	3:30.84
DOUG MOYSE		MICHIGAN	1:53.16	C.LE BOURGEOIS	58	JERRY LANGELER	76
MOOK RHODENBAUGH		DANIEL HELTON	41	HSAM	2:22.44	GJS LANGNER	88
BOBBY PATTEN		ROB MONTIE	44	RUDOLPH SAPPER	60	BURRIS LAMAR	68
BAYLOR/LONE STR	1:37.89	LARRY SPRUNK	44	RON WILLIAMSON	54	VAL OUCHAKOF	68
RICHARD HESS	37	FRANK THOMPSON	40	EUGENE SAPPER	63	*****	
DOUG MOYSE	33	ROSE A	1:53.53	MICHAEL PHILLIPS	50	RELAYS: M E N 200 M. MEDLEY	
MOOK RHODENBAUGH	27	GARY LANGENDOEN	47	240+		*****	
BOBBY PATTEN	29	PAUL LOFTHOUSE	45	R:SAN DIEGO	88 2:07.70	76 +	
SBAY A	1:42.23	FRED SCHLICHER	44	ANDREW HOLDEN		R:MICHIGAN	92 1:58.73
ROBERT EBERWINE	32	BOB COALE	52	FRED WADSWORTH		MICHAEL BELL	
SCOTT SOUTHRON	28	SAN MATEO	1:53.87	GORDON GILLIN		TOM SAYLES	
CHUCK PONTHER	29	DON GALINE	46	GORDON GILLIN		STUART NIXON	
BRIAN KELCA	32	TOM TOBIN	44	WILLIAM PHILLIPS		JIM WALLACE	
SO. CALIFORNIA	1:45.58	BRENT WASHBURNE	30	SDSM	2:10.85	MICHIGAN	1:58.73
GERRY RODRIGUES	29	RANDY BROWN	44	GORDON GILLIN	62	MICHAEL BELL	23
MIKE MARTINI	26	PARIS ISLAND	1:56.99	FRED WADSWORTH	64	THOMAS SAYLES	23
CLAY EVANS	38	ALAN GREENWOOD	26	DOM BAKER	61	STEWART NIXON	23
MICHAEL HEATHER	38	SCOTT GRABER	47	KENNETH KIMBALL	62	JIM WALLACE	28
CULVER CITY Y	1:46.86	DAVID PAINTER	54	ST. LOUIS	2:18.45	DAVIS AQUATIC	2:01.50
DAVID KOCKER	34	JOHN SCHOLER	38	BILL CANNON	62	ULLYSIS LUDWIG	20
MARK KUBEJA	37	MICHIGAN	1:59.16	GENE BUESCHER	57	KEVIN PEARSALL	25
MATT SEEGERS	34	KELLY REVENAUGH	41	ROBERT BLAKE	67	TODD GREENE	22
BRUCE STAHL	34	STEVE HANSEN	40	BILL RUSS	57	BRIAN TIMMERMAN	21
PALMETTO	1:48.06	RICHARD CHANEY	41	OLYMPIC CLUB	2:24.53	100+	
HUGH WILDER	45	LEONARD BROCKHAHN	41	GLYNN JONES	67	R:ROSENBERG	88 1:52.59
JOHN BURTON	36	WOOSTER MASTERS	1:59.89	RALPH PERRY	65	CLIFFORD SPENCER	
JEFF SAEBER	25	CHUCK MALTA	45	JAMES MILLER	56	JOSEPH GREENWELL	
JOE SHAKE	34	REGINALD KRAMER	39	EDWARD RUDLOFF	68	JOHN ANDARY	
CHAPEL HILL	1:48.98	JIM BABCOCK	42	SBAY	2:27.92	MICHAEL DUSWALT	
JON KLEIN	35	JONATHAN HARVEY	35	CHRIS FROGLEY	49	MICHIGAN	2:04.27
TOM BOYD	36	IEM	2:01.46	CHUCK MCPPEAK	56	ERIC HARDEN	21
SCOTT SAPPENFIELD	40	MIKE LITTLE	36	WILLIAM LOHNEISS	66	BOB JENNINGS	26
C.VANDER HORST	40	CHUCK TASCA	47	ROBERT SCOLES	71	JIM JENNINGS	22
MICHIGAN	1:49.15	ROD WHARTON	36	WIS MASTERS	2:35.18	CARL SMITH	32
RANDY SCHLEGEL	39	BILL TRAVIS	44	JOHN BAUMAN	62	CTM	2:04.49
ANDY PTASHNIK	27	MOVY	2:02.30	HENRY GRIESBACH	62	JIM DRAUGHN	19
PETE SIMON	34	CLARKE STOKES	42	ALEX MACGILLIS	63	HENRY MATHER	27
JOHN SHEARD	26	STEVEN NOOTZ	44	THOMAS MICHELSON	61	RICK DANIELSON	22
WEST HOLLYWOOD	1:49.23	MIKE CALWELL	52	ST. LOUIS	2:41.51	HARRY SAMUELS	37
SCOTT GENKINGER	33	CHIP GLIDDEN	42	ED ROSENHAUER	61	DAVIS AQUATIC M	2:05.10
GARY QUINN	34	200+		ART KELLEY	67	GREG JOHNSON	35
JON BAUER	40	R:LOS ALTOS	89 1:48.34	DOM SERY	68	TROY HAIGHT	21
PAULO FIGUEIREDO	46	ROBERT PROEBSTING		GENE PENZEL	57	DERRICK SCOVEL	25
CRAW	1:49.60	EDWARD CAZALET		MICHIGAN	2:52.50	MICHAEL COLLINS	26
STEVE HECK	42	JOHN RICHARDS		FRED SHERRIFF	80	MICHIGAN	2:06.57
ROBERT DALEY	30	DICK THOMAS		GEORGE BYELICH	71	RON STRAUSS	31
GRAHAM STEWART	36	SDSM	2:04.68	DOM KORTEN	65	MICHAEL JACKSON	22
CHRIS ERIKSON	20	BILL EARLEY	56	TOD HARRIS	26	DAVID SHEPHERD	36

TOP TEN SHORT COURSE METERS

JAMES GROESBECK	25	FRANS NELSON	50	RALEIGH AREA	2:34.37	THOMAS MICHELSON	61
HEARTLAND S A M	2:21.54	PAUL HENNE	44	PHILIP EISENHART	49	MICHIGAN	3:04.33
CLINTON MERRIMAN	21	BOO GRANER-GALLAS	45	JAMES GREEN	47	DON KORTEN	65
TODD G ROYAL	26	JAMES LA MONTAGNE	44	C.LE BOURGEOIS	58	GEORGE BYELICH	71
MARK D'AMICO	24	MICHIGAN	2:03.59	BILL ALEXANDER	50	TOM REIGEL	62
CESAR J ROMERO	31	KURT GERHARDT	41	MICHIGAN	2:35.14	HARVEY HANSEN	44
120+		BARRON CLEMONS	40	FRANK THOMPSON	40	BOLT	3:20.05
R:GCWP	89 1:50.73	ROGER LYONS	39	JOHN REESE	66	N. HEDRICK	68
BRIAN GOODELL		WILLIAM REID	41	CHARLES MAAS	57	BILL JEROME	39
SCOTT BECKER		PALMETTO	2:05.72	DENNIS JAMES	54	BOB RODRIGUE	58
JAY HERSEY		HUGH WILDER	45	SDSM	2:44.23	MAURICE STERN	76
LYLE NALLI		JOSEPH KURTZMAN	66	BILL EARLEY	56	280+	
MICHIGAN	1:58.79	JOHN BURTON	36	PETER RIDDLE	54	R:OREGON	90 2:36.92
CHARLES GROEN	31	JOE SHAKE	34	GORDON GILLIN	62	EARL WALTER	
JOHN STENROOS	28	MICHIGAN	2:06.34	STEVE MOSELEY	54	FORBES MACK	
DANIEL BEATTY	25	ROB MONTIE	44	CHAPEL HILL	2:49.53	ANDREW HOLDEN	
LEE RODNEY	36	LARRY SPRUNK	44	PIERRE MORRELL	50	GERALD HUESTIS	
MICHIGAN	2:00.59	JOHN MASTENBROOK	36	FRANK PENTA	51	BOLT	3:11.97
TIMOTHY CLAYSON	38	DANIEL HELTON	41	JIM LEE	52	ROBERT WIEGAND	70
STEVE COLELLA	37	MICHIGAN	2:06.52	TERRY SCHNEIDER	54	MIKE OFFNER	78
ANDY PTASHNIK	27	RICHARD CHANEY	41	IEM	2:53.78	RICHARD DANIEL	66
JOHN SHEARD	26	STEVE HANSEN	40	DAVE WEEKS	43	ELMER FROST	69
SBAY A	2:01.78	LEONARD BROCKHAHM	41	DAVE DABOLL	55	COLONIALS 1776	3:52.33
BRIAN JOHNSON	31	KELLY REVENAUGH	41	GARRY HARN	56	RICHARD TAYLOR	74
ROBERT EBERWINE	32	DAVIS AQUATIC	2:07.90	CHUUCK TASCA	46	HUGH COYLE	72
CURT RUSSELL	29	ROBERT NORRIS	54	IEM	2:55.82	J.VAN REYMERSDAL	64
BRIAN MERRIGAN	32	TOM MCKENNA	41	FRANK HAMILTON	52	HOWARD BURNS	71
RALEIGH AREA	2:01.89	ANDY MCPHERSON	45	BRIAN PETERSON	43	*****	
JOHN ARMFIELD	27	CHAS HESSELEIN	37	BOB HENAGER	41	RELAYS: M E N 400 M. FREE	
HILL CARROW	37	ROLLING HILLS	2:12.36	JAY BEELER	69	*****	
BRUCE MALLETT	39	DON PIERCE	47	O*H*I*O MASTERS	3:06.28	76 +	
ALLEN LYDICK	35	PIETER BOISSEVA	42	DOUG BROGAN	60	R:DAVIS	90 3:53.01
WALNUT CREEK	2:02.42	ERIC VAN BOER	37	GERALD MEYER	48	MIKE HUARD	
JOHN FAWCETT	34	GEORGE VIGUIE	48	JULIO APONTE	47	VINCENT LANE	
ROD COOK	34	HSAM	2:12.77	RICHARD FRYLING	60	SCOTT ERBA	
KERRY O'BRIEN	35	DOUGLAS SELBY	47	240+		TODD BAILY	
CARY KENT	41	JERRY O'MARA	45	R:GREATER INDIANA89	2:21.09	NO RELAY TEAMS	
BOLT	2:03.40	JEFF REILLY	31	JOHN DILLEY		100+	
L J SCHMITT	24	LEE MENCH	40	DOUGLAS SCOTT		R:LONGHORN	90 3:55.59
GREG BORDES	35	CARSON VALLEY	2:13.13	MEL GOLDSTEIN		CARL DUFFY	
TIM HALE	37	TODD CONNOLLY	41	DICK WEBBER		MICHAEL GIRDO	
DEAN EKBERG	37	MARK MILLS	39	OLYMPIC CLUB	2:31.72	MARK STOHRER	
CRAW	2:05.05	GALEN DENIO	45	JAMES MILLER	56	ANDERS RASMUSSEN	
STEVE HECK	42	JOSEPH BURGESS	39	RALPH PERRY	65	NO RELAY TEAMS	
CHRIS ERIKSON	20	O*H*I*O MASTERS	2:19.33	EDWARD RUDLOFF	68	120+	
ROBERT DALEY	30	HARRY GREENFIELD	46	RICHARD BASSI	51	R:DAVIS	90 3:55.05
GRAHAM STEWART	36	RICHARD BAUSCHARD	47	SAN DIEGO SWIM	2:31.73	HANS KONRAD	
EMPIRE STATE	2:05.88	PAT SAVAGE	40	BILL EARLEY	55	MIKE COLLINS	
GLENN GOLDSTEIN	31	DAN PER-LEE	48	DONALD BAKER	61	ANDREW MCPHERSON	
SCOTT SCHLIEMAN	41	200+		DONALD J HUBBARD	65	PAUL SCHROEDER	
BOB KOLONKOWSKI	44	R:LOS ALTOS	89 2:02.44	KENNETH KIMBALL	61	EMPIRE STATE	3:55.31
SEBASTIAN MOLL	28	DICK THOMAS		ST. LOUIS	2:51.04	STEVEN FISHER	30
HSAM	2:05.94	THOMAS BOAK		BILL RUSS	57	BUCK BROKER	36
CHARLES HARTJE	33	ROBERT PROEBSTING		GENE BUESCHER	57	JOHN NEEDHAM	39
RON SCHAFER	35	JOHN RICHARDS		BILL CANNON	62	SEBASTIAN MOLL	28
RANDALL EICKHOFF	27	MICHIGAN	2:30.65	ROBERT BLAKE	67	COLONIALS 1776	3:55.43
DAVID SAPPER	38	JOHN WAGNER	48	SBAY	2:55.23	TOM MEADE	34
OREG	2:06.23	DOUG MARKUSIC	50	STEVE KOVARY	50	SCOTT UHRMANN	37
JOHN F ZELL	35	ELMER EGELKRAUT	58	WILLIAM LOHNEISS	66	CHARLIE NORELLI	36
DAVID M COBB	32	ALBERT MORLEY	54	ROBERT SCOLES	71	GREGORY OXLEY	33
MARK B WREN	33	MICHIGAN	2:32.34	TOB DE BOER	62	SBAY A	3:59.58
STEPHEN F HARGER	32	CHARLES MOSS	63	ST. LOUIS	2:55.99	BRIAN JOHNSON	31
160+		THOMAS MEISEL	52	DON SERY	68	ROBERT EBERWINE	32
R:SWAM	91 1:55.51	CHARLES ENRIGHT	49	ED ROSENHAUER	61	CURT RUSSELL	29
CHRIS MACCURDY		DAVE SPETH	41	ART KELLEY	67	BRIAN MERRIGAN	32
RIC NESBIT		HSAM	2:33.24	GENE PENZEL	57	SAN MATEO	4:09.57
JERRY HEIDENREICH		MICHAEL PHILLIPS	50	WIS MASTERS	2:56.25	DON GALINE	46
BRYAN AUSTIN		EUGENE SAPPER	63	HENRY GRIESBACH	62	FRED MINCHER	22
SCAQ	2:00.28	DAVID SZUCH	49	ALEX MACGILLIS	63		
		BRUCE MENZIES	43	JOHN BAUMAN	62		

TOP TEN SHORT COURSE METERS

JIM KELLY	28	GEORGE BRINTON		BENN DOYLE		DOUGLAS SELBY	47
BRENT WASHBURNE	30	RICHARD ROUSE		ROB COPELAND		JERRY O'MARA	45
ST. LOUIS	4:18.76	SDSM	5:17.60	TOM LAWSON		LEE MENCH	40
SANDY ROTH	23	KENNETH KIMBALL	62	SBAY A	4:19.00NV	DOUG SAPPER	29
KENT WEBER	29	FRED WADSWORTH	64	ROBERT EBERWINE	32	SBAY	5:52.38
MICHAEL SCHELL	41	DONALD HUBBARD	65	BRIAN KELCA	32	JAMES KONO	40
GREG FRIEDICH	29	BILL EARLEY	56	CHUCK PONTHER	29	KEVIN MCNANNA	43
SBAY B	4:20.57	ST. LOUIS	5:26.15	SCOTT SOUTHRON	28	JOHN PITZER	41
STEVE BARNARD	35	BILL CANNON	62	BERKELEY	4:23.91	CHRISTIAN BACHET	43
RANDY LYMAN	39	ROBERT BLAKE	67	MARTY PFINSGRAFF	37		
JAMES CORDOVA	29	BILL RUSS	57	BENN DOYLE	34	200+	
GARY FLO	37	GENE BUESCHER	57	ROB COPELAND	36	R:OREGON	91 5:11.59
HSAM	4:31.85	ST. LOUIS	6:22.72	TOM LAWSON	32	ROBERT SMITH	
RON SCHAFFER	35	ED ROSENHAUER	61	MINNESOTA	4:27.77	TOM FANNING	
JEFF REILLY	31	ART KELLEY	67	PAUL WINDRATH	37	RICHARD BOYD	
MIKE TOPE	37	DON SERY	68	JOHN EVERS	37	ERIC GUEST	
MICHAEL SAPPER	36	GENE PENZEL	57	NATHAN LEIGH	35	ST. LOUIS	5:42.11
		SBAY	6:31.51	MARK TRAMPF	33	WILLIAM CANNON	62
160+		DAVE FRANK	48	MINNESOTA	4:58.10	GARY JEWELL	42
R:LAKESIDE	92 4:00.88	CHUCK MCPEAK	56	SCOTT SAKAGUCHI	38	LEO LETENDRE	39
JOHN NOLAN		WILLIAM LOHNEISS	66	KEVIN RICHTER	37	GENE PENZEL	58
THOMAS FINNEGAN		ROBERT SCOLES	71	JIM PELISSIER	47	HSAM	6:11.14
DOUGLAS TENNANT				TIM QUADY	22	RON WILLIAMSON	54
WILLIAM TINGLEY		280+		SBAY B	4:58.64	EUGENE SAPPER	63
LAKESIDE	4:00.88	R:OREGON	91 5:27.45	GORDON LINDEEN	31	MICHAEL PHILLIPS	50
JOHN NOLAN	44	EARL WALTER		CURT RUSSELL	29	BRUCE MENZIES	43
THOMAS FINNEGAN	46	GIL YOUNG		DOUGLAS WILEY	31		
DOUGLAS TENNANT	35	ANDREW HOLDEN		BRIAN MERRIGAN	32	240+	
WILLIAM TINGLEY	42	FORBES MACK		HSAM	5:02.03	R:S CAL AQUATIC	90 5:46.32
HEARTLAND S A M	4:04.88	NO RELAY TEAMS		CHARLES HARTJE	33	LEE ARTH	
DOUGLAS W SELBY	47	*****		RON SCHAFFER	35	BEN FRANKLIN	
JERRY M O'MARA	45	RELAYS: M E N 400 M. MEDLEY		LARRY TAGGESELL	39	FRANK PIEMME	
JOHN T RAHM	35	*****		CESAR ROMERO	32	JURGEN SCHMIDT	
LEE E MENCH	39	76 +		AFAM	5:15.89	SPM	6:08.92
SCAQ	4:06.24	R:DAVIS	90 4:56.13	PETER HUISVELD	41	PAUL HUTINGER	67
JAMES LA MONTAGNE	44	DAN BURGER		CLAUDE WISE	41	PETER R. BETZER	50
GERRY RODRIGUES	30	GADI REVIVO		BRIAN CANINO	32	RAY S. BURNS	57
PAUL HENNE	46	FRED RAMSING		DAVID LAZERSON	29	JOHN D. JOHNSTON	76
JEFF STRNAD	40	VINCENT LANE		WKGG	5:35.27	ST. LOUIS	6:14.83
ST. LOUIS	4:29.05	NO RELAY TEAMS		RON FINLEY	34	DON SERY	68
BRUCE COOMAN	45			JAMES SCHULER	35	LEO LETENDRE	39
RICH YAWITZ	38	100+		JEFF STEVENS	39	ART KELLEY	67
LEO LETENDRE	39	R:SOUTH BAY	91 4:21.93	LYNN OLSON	45	ROBERT BLAKE	67
GEORGE ROLBY	44	SCOTT SOUTHRON		ROSE	6:01.22	SDSM	6:30.17
EMPIRE STATE	4:36.04	BRIAN KELCA		WALTER HITCH	40	KENNETH KIMBALL	62
ALAN GARFUNKEL	45	CHUCK PONTHER		MICHAEL RAVEN	42	DON BAKER	61
JOE NORTON	45	MICHAEL CASEY		JAY LOPEZ	32	DONALD HUBBARD	65
BILL MCELHENNY	36	BERKELEY	4:24.38	JOHN MONTOYA	41	FRED WADSWORTH	64
STEVE SOKOLOW	36	ETHAN CANCELL	27				
WKGG	4:37.58	RICH CALLAGHAN	30	160+		280+	
JAMES SCHULER	35	KEN FITCH	27	R:S CALIF AQ	89 4:29.41	R:OREGON	91 6:25.20
ROBERT ADAMS	54	CHRIS JONES	22	CLAY EVANS		EARL WALTER	
LYNN OLSON	45	MINNESOTA	4:31.45	PAUL HENNE		BOB MORRISON	
RON FINLEY	34	CHRIS NIELSEN	28	FRANK WASKO		ANDREW HOLDEN	
		JEFF LEE	25	JERRY DUNLAP		FORBES MACK	
200+		SCOTT SPENCER	27	ROSE	4:48.65	NO RELAY TEAMS	
R:OREGON	91 4:30.16	DARIN PELLEGRINO	23	FRED SCHLICHER	44	*****	
ROBERT SMITH		GOLW	4:44.56	BRIAN MURPHY	41	RELAYS: M E N 800 M. FREE	
ERIC GUEST		PAUL IKIOKA	28	GARY LANGENDOEN	47	*****	
TOM FANNING		SCOTT MITCHELL	30	PAUL LOFHOUSE	45	76 +	
RICHARD BOYD		DON SKEOCH	29	LAKESIDE	5:12.84	R:SPACE COAST	87 11:48.18
HSAM	5:05.47	MICHAEL NOMURA	24	WILLIAM TINGLEY	42	DON RAY	
DOUGLAS SELBY	47	HEARTLAND S A M	4:46.73	LARRY KEATON	49	SCOTT MAYNES	
DAVID SZUCH	49	STEVEN R SAPPER	33	THOMAS FINNEGAN	46	SCOTT BELL	
MICHAEL PHILLIPS	50	STEVEN SOLOMON	36	ADRIAN PELLEGRINI	35	DENNIS LOBMEYER	
RON WILLIAMSON	54	STUART LONDON	25	BERKELEY	5:14.58	NO RELAY TEAMS	
		MIKE L TOLMAN	24	DAVID SICONOLFI	41		
240+				JEFFREY LAMB	35	100+	
R:S CALIF AQ	89 4:51.11	120+		BILL REICHL	44	R:SOUTH BAY	91 8:32.67
DON WILSON		R:BERKELEY	92 4:23.91	STANLEY ASHARE	52	FRANK BIRD	
BOB MERRICK		MARTY PFINSGRAPH		HSAM	5:21.64	ROBERT EBERWINE	

TOP TEN

SHORT COURSE METERS

SCOTT SOUTHON			SBAY	12:12.70	NO RELAY TEAMS		DAVE DOUR	26
BRIAN KELCA			CHRIS FROGLEY	49	*****		BOLT	2:01.46
EMPIRE STATE	8:57.34		CHUCK MCPEAK	56	RELAYS: MIXED 200 M. FREE		NANCY EWELL	24
STEVEN FISHER	30		STEVE BARNARD	35	*****		MARY BETH CORONA	25
JEFF BARANY	24		GARY FLO	37	76 +		L J SCHMITT	24
SCOTT HIROSE	26				R:CRIMSON TIDE	92 1:58.30	DEAN EKBERG	37
ROBERT VALENTIN	22		200+		DIANNE BATSON		SBAY	2:04.80
HEARTLAND S A M	10:26.10		R:CONNECTICUT	92 9:48.41	HENRY MATHER		SUSAN STOHRER	29
BRUCE MENZIES	42		RONALD MOLNAR		WENDY BATSON		CATHY MANZ	29
STUART H LONDON	25		DANIEL DAVIS		RICK DANIELSON		GORDON LINDEEN	31
MIKE L TOLMAN	24		MICHAEL LAUX		CRIMSON TIDE	1:58.30	CURT RUSSELL	29
CLINTON MERRIMAN	21		JACK GEOGHEGAN		DIANNE BATSON	24	AFAM A	2:05.67
			CONN	9:48.41	HENRY MATHER	27	KELLY LAZERSON	31
120+			RONALD MOLNAR	50	WENDY BATSON	19	SIAN ASHENDEN	28
R:HEARTLAND	91 8:41.77		DANIEL DAVIS	50	RICK DANIELSON	22	DAVID LAZERSON	29
CHARLES HARTJE			MIKE LAUX	50	RALEIGH AREA	1:59.73	RUSSELL ASHENDEN	28
JEFF REILLY			JACK GEOGHEGAN	50	LINDSAY NATA	19		
LEE MENCH			STANFORD	9:59.46	TIM BAKER	27	120+	
RANDALL EICKHOFF			TIM BRODERICK	41	JOHN ARMFIELD	27	R:TEXAS	89 1:48.60
SBAY A	8:50.69		BEN WISCKOL	52	BARBARA WALSTON	26	LESLIE OSBORNE	
BRIAN JOHNSON	31		KENT PRICE	54	MICHIGAN	2:01.32	LARRY WOOD	
ROBERT EBERWINE	32		BARRY FASBENDER	55	MICHAEL BELL	23	GAIL MEAKINS	
BRIAN MERRIGAN	32		HSAM	11:20.54	LAURA JOHNSON	27	MEL NASH	
GORDON LINDEEN	31		DOUGLAS SELBY	47	GABRIELLE VENCEL	25	SBAY	1:50.61
HSAM	9:18.14		DAVID SZUCH	49	STEWART NIXON	23	ANN FINLEY	30
RANDALL EICKHOFF	27		MICHAEL PHILLIPS	50	DAVIS AQUATIC	2:04.15	DEDE MOORE	32
MIKE TOPE	37		RON WILLIAMSON	54	DERRICK SCOVEL	26	BRIAN JOHNSON	31
JEFF REILLY	31		SDSM	11:21.53	JENNIFER BLAKE	23	ROBERT EBERWINE	32
CHARLES HARTJE	33		KENNETH KIMBALL	62	LYNN LATHOWERS	22	SCAQ	1:54.10
HSAM B	9:50.82		STEVE MOSELEY	54	GLENN	20	ERIC HYRE	30
LEE MENCH	40		FRED WADSWORTH	64	100+		DEBRA RIKER	30
LARRY TAGGESELL	39		ERIC NEILSEN	26	R:ALASKA	89 1:47.91	D.GRANER-GALLAS	28
JIM BOLLMAN	39		IEM	12:59.00	L.HASSELQUIST		CLAY EVANS	39
DAVID SAPPER	38		DAVE WEEKS	43	BRUCE JONES		BERKELEY	1:57.12
SBAY B	10:16.65		CHUCK TASCA	46	JANE PARIS		JOAN PFINSGRAFF	38
CURT RUSSELL	29		GARRY HARN	56	TOM ROTH		MARTY PFINSGRAFF	37
JAMES CORDOVA	29		DAVE DABOLL	55	OREG	1:54.14	RICH CALLAGHAN	30
RANDY LYMAN	39		O*H*I*O MASTERS	13:14.16	MATHEW J ROTH	25	KATHY LYNCH	27
JAMES KONO	40		JULIO APONTE	47	TIMOTHY P WAUD	25	MICHIGAN	1:58.05
IEM	10:33.36		RICHARD FRYLING	60	GRACIE M GODDARD	33	RANDY SCHLEGEL	39
STEVE OMI	34		DOUG BROGAN	60	LEISSA K MILLS	32	ANN MCCLURE	27
JOHN SAHLIN	40		PIETER CATH	62	MICHIGAN	1:54.15	DANA WOOD	30
BILL TRAVIS	43		IEM	13:47.25	JIM WALLACE	28	JOHN SHEARD	26
MIKE LITTLE	36		BILL OVERHOLSER	53	KRISTIN NELSON	26	RALEIGH AREA	1:58.39
EMPIRE STATE	10:47.48		JIM MCBRIDE	52	PAT ROHNER	32	SUE HAUGH	31
MARK QUIGLEY	34		WILL DOLPHIN	66	DANIEL BEATTY	25	SHARON BARRELL	31
TIMOTHY WHITESIDE	39		BILL DAVIES	55	EMPIRE STATE	1:54.24	DAVID SADOSKY	33
BUCK BROKER	36				MARCIA CLEVELAND	28	JIM HARTYE	41
KEN CHU	39		240+		JEFF BARANY	24	ALMADEN SWIM	1:58.98
HSAM C	11:43.89		R:HOLMES	89 12:18.65	DENISE DEPPERLER	25	MANDY MCCLELLAN	37
RON SCHAFER	35		JACK BEATTIE		SEBASTIAN MOLL	28	DAVE CLARE	43
ALBERT HALL	34		LORING HOLMES		TRIAD	1:56.47	SHARON BEENE	30
CESAR ROMERO	32		JIM TAYLOR		DON EVANS	30	TOM SAVASO	37
DOUG SAPPER	29		HARWELL MOSLEY		TED ATWELL	23	ROSE	1:59.36
			ST. LOUIS	12:19.22	LORI MOWEN	32	JANET LEHMAN	33
160+			JOHN BROUK	75	JANET STITES	28	FRED SCHLICHER	44
R:MINNESOTA	92 8:58.69		WILLIAM CANNON	62	HSAM	1:56.72	BRIAN MURPHY	41
PETE MAGEE			ROBERT BLAKE	67	VICKY DAVIDSON	28	JUDITH MURPHY	33
PAUL WINDRATH			GARY JEWELL	42	RANDALL EICKHOFF	27	MID OHIO VALLEY	1:59.42
NATE LEIGH			SBAY	13:15.78	CHARLES HARTJE	33	SUSAN ROESCH	33
JIM STEWART			DAVE FRANK	48	REBECCA JACKMAN	29	DIANE KARP	30
MINNESOTA	8:58.69		WILLIAM LOHNEISS	66	DAVIS AQUATIC	1:58.19	DAVID PASKAWYCH	34
PAUL WINDRATH	37		ROBERT SCOLES	71	MIKE COLLINS	26	SCOTT HICKMAN	25
PETE MAGEE	54		TOB DE BOER	62	EDUARDO FERNAND	28	MICHIGAN	1:59.99
NATHAN LEIGH	35				CHRISTINE WINN	26	ANDY PTASHNIK	27
JIM STEWART	35		280+		CHRISSIE CHICHE	29	PAT MANKIN	37
EMPIRE STATE	9:12.49		R:SPACE COAST	87 18:54.13	WEST COAST	2:01.14	SANDRA SCHWENDT	26
STEVEN MILLER	38		GUS SPOHN		KAREN MILLER	27	STEVE COLELLA	37
JOHN NEEDHAM	39		ERNIE OGILVIE		JENNIFER STECKL	27	PARIS ISLAND	2:01.44
BOB KOLONKOWSKI	44		WALTER CROSSLEY		STEVE STECKLER	33	ALAN GREENWOOD	26
CRAIG SAINT-AMOUR	39		RICHARD FLETCHER				TRACY SHOPE	30

TOP TEN SHORT COURSE METERS

PAM DRAFTS	35	ST. PETE MASTER	2:30.86	ROBERT SCOLES	71	RICK DANIELSON	22
JOHN SCHOLER	38	A. FRIEDLAND	62	SCAQ	2:40.45	DIANNE BATSON	24
160+		ELAINE BROMWICH	49	JACK BURGAN	70	HENRY MATHER	27
R:GREATER INDIANA89	1:50.55	SANDY STEER	53	SYLVIA GLENN	54	CONN	2:11.38
BILL VICKERY		PAUL HUTINGER	68	LINDA TEPE	45	ROB TORGERSON	30
SHARON WISE		HSAM	2:34.20	BOB MERRICK	72	DONNA NEARY	37
SALLY HASBROOK		BRUCE MENZIES	43	HSAM	2:42.51	STUART BARTON	24
BILL WOOD		MICHAEL PHILLIPS	50	EUGENE SAPPER	63	MARCEL BACLASKI	23
SCAQ	1:53.89	CAROL SING	51	RUDOLPH SAPPER	60	COAST CAROLINA	2:25.43
BONNIE ADAIR	40	JUDY TILARO	57	MARILYN RAMEY	52	B.FLICKNER	19
STEPHEN WILDER	42	O*H*I*O MASTERS	2:45.76	NANCY REED	65	EDIE WILLIAMSON	21
DIANA TODD	49	LUISE EASTON	53	MICHIGAN	2:45.67	JOHN SWITTER	22
JAMES LA MONTAGNE	44	MARIANNE BROGAN	57	LOIS WOCHMAN	67	MELISSA WILSON	20
SBAY	1:59.48	DOUG BROGAN	60	EDITH GLUSAC	73	100+	
MIMI FRANK	45	JULIO APONTE	47	JOHN REESE	66	R:AIR FORCE	91 2:01.83
MARCIA BARRY	44	IHAC	2:45.85	FRANK THOMPSON	40	ANNA PLANTIER	
RANDY LYMAN	39	JACK MIYAGAWA	53	ST. LOUIS	2:47.50	ALAN ARATA	
DAVE FRANK	48	LOIS GOODMAN	45	GENE BUESCHER	57	KIMBERLY ARATA	
DAVIS AQUATIC	1:59.64	DEBORAH MEBEL	29	CHERYL CORBETT	60	KIRK CLRAR	
ANDY MCPHERSON	45	MAX LUNA	77	REGAN KENNER	68	SBAY	2:06.22
JIM FRAMPTON	45	SBAY	2:51.69	BILL RUSS	57	SCOTT SOUTHRON	28
MELISSA BEATY	35	JANET SHARP	50	MICHIGAN	2:52.14	CHUCK PONTHER	29
CATHY CARR WEST	38	J.SANTILLANO	39	ALISON HEINS	51	SUSAN STOHRE	29
HSAM	2:00.00	CHUCK MCPPEAK	56	FRED SHERRIFF	80	DEDE MOORE	32
LYNN MACDONALD	37	TOB DE BOER	62	SUSAN BOND	55	MICHIGAN	2:06.35
KELLI DOLE	34	HSAM B	2:59.84	ALBERT MORLEY	54	CHARLES GROEN	31
DOUGLAS SELBY	47	RON WILLIAMSON	54	280+		JOHN STENROOS	28
JERRY O'MARA	45	JIM BOLLMAN	39	R:CONNECTICUT	88 2:38.80	PAT ROHNER	32
MACO	2:02.57	ELFRIEDE LEHTO	59	JERRY JARROLD		KRISTIN NELSON	26
DAVID O BURLESON	35	ANN MARTIN	63	DOROTHY DONNELLY		TRIAD	2:13.29
TERI HENDRYX	39	PARIS ISLAND	3:00.59	RUTH BILLARD		DON EVANS	30
DAVID DRAKE	41	DAVID PAINTER	54	GJS LANGNER		TED ATWELL	23
L.STOINOFF	59	JOHN KENT	45	CONN	2:52.39	JANET STITES	28
PALMETTO	2:09.47	GAMBRELL FOSTER	53	DOROTHY DONNELLY	70	BEBE OLSON	29
JOHN BURTON	36	KAREN FADY	50	NANCY PHILLIPS	71	GREENVILLE Y	2:16.06
JAN PESAVENTO	41	BOLT	3:17.54	ROGER CHAMBERLAIN	75	PAUL SCHMID	29
SUSAN BLATTNER	35	N. HEDRICK	68	HARRY BARTLETT	76	BETH SCHEIMANN	30
BOB ACKER	71	ELLEN HALL	41	BOLT	3:54.89	MARK KOTHE	26
COLONIALS 1776	2:10.69	JOYCE CONSTANCE	60	MIKE OFFNER	78	APRILLE DILL	31
MARY ANN MCCLAIN	50	RICHARD DANIEL	66	CLAIRE ROACH	65	CHAPEL HILL	2:18.69
CATHERINE FITCH	40	240+		RUTH HAMILTON	78	JOE PENTA	22
M.GWIAZDOWSKI	35	R:LOS ALTOS	92 2:12.98	MAURICE STERN	76	J.EDMUNDSON	29
JOHN WIDTFELDT	35	JOHN RICHARDS		320+		JONATHAN BRIGGS	30
RALEIGH AREA	2:13.12	JAY CRADDOCK		R:SAN MATEO	92 3:48.82	LINDA ENDERS	24
CEIL BLACKWELL	52	DELLA SEHORN		MARGARET KEIL		ST. LOUIS	2:19.12
C.LE BOURGEOIS	58	LAURA VAL		JOE KAUFMAN		CHRISTINE KOENIG	22
PHILIP EISENHART	49	LOS ALTOS	2:12.98	AUDREY ERIENNE		SUSAN RICHMOND	31
SHERRY HART	37	JOHN RICHARDS	70	RAY TAFT		LESLIE COOPER	32
WIS MASTERS	2:14.94	JAY CRADDOCK	71	SAN MATEO	3:48.82	JOHN LYNCH	28
JOHN MANIACI	41	DELLA SEHORN	65	MARGARET KEIL	86	WEST COAST	2:19.49
CANDY CHRISTENSON	45	LAURA VAL	40	JOE KAUFMAN	87	JENNIFER STECKL	27
NANCY KRANPITZ	47	FGC	2:17.30	AUDREY ETIENNE	75	DAVE DOUR	26
ARTHUR SANCHEZ	42	ANNE MCGUIRE	58	RAY TAFT	73	KAREN MILLER	27
BOLT	2:15.99	MARGARET TIMMINS	62	*****		STEVE STECKLER	33
HUGH FLEMING	42	SHERWIN DROBNER	59	RELAYS: MIXED 200 M. MEDLEY		AFAM	2:22.26
VICKI BUCCINO	46	DON SONIA	62	*****		SIAN ASHENDEN	28
KATHERINE GREGORY	40	ST. LOUIS	2:28.26	76 +		RUSSELL ASHENDEN	28
JOHN LANE	46	CAROL TAYLOR	63	R:RIVERSIDE AQU	89 2:06.31	KELLY LAZERSON	31
200+		JEAN SCHNORBUS	66	DANIEL RUBANO		DAVID LAZERSON	29
R:LINCOLN	89 1:57.25	BRUCE COONAN	45	HEIDI PLATNER		MACN	2:23.31
PAUL HUTINGER		ROBERT BLAKE	67	MONICA WARD		STEPHEN DIXON	24
IRENE DAVID		SAN DIEGO SWIM	2:28.39	STEVEN BEHRENS		HEATHER LAURIE	27
COLLEEN MALMEN		BOBBI I TURCOTTE	64	MICHIGAN	2:08.42	SHARON ELM	26
RAY PADOVAN		JERRY R SIEFERT	74	MICHAEL BELL	23	STEPHEN PECK	36
ST. LOUIS	2:29.87	KENNETH KIMBALL	61	LESLIE HANKINS	22	BOLT	2:23.33
GENE PENZEL	58	BARBARA G DUNBAR	43	DANIEL BEATTY	25	MARY BETH CORONA	25
CHERYL CORBETT	60	SBAY	2:39.89	AMY THAYER	25	GREG BORDS	35
LESLIE COOPER	32	JUDY WILLIAMSON	49	CTM	2:10.17	L J SCHMITT	24
LLOYD KLINEDINST	52	PATRICIA BAXTED	55	WENDY BATSON	19	NANCY EWELL	24
		WILLIAM LOHNEISS	66				

TOP TEN SHORT COURSE METERS

120+			JOHN WIDTFELDT	35	ANN PISCIOTTA	61	HARRY BARTLETT		
R:LAKESIDE	89	1:58.28	MARY ANN MCCLAIN	50	JOAN ALEXANDER	60	CONN		3:06.67
WILLIAM TINGLEY			MIKE LITTLE	36	CARY KENT	40	NANCY PHILLIPS		71
GINA GATTI			DAVE DABOLL	55	ST. PETE MASTER	2:46.46	ROGER CHAMBERLAIN		75
MICHAEL HIGGS			CAROLYN KENT	46	A. FRIEDLAND	62	RONNIE KAMPHAUSEN		58
MELINDA SCHMITT			MARGARET HAIR	36	PAUL HUTINGER	68	HARRY BARTLETT		76
WIS MASTERS		2:06.12	SBAY	2:29.69	ELAINE BROMWICH	49	ST. LOUIS		3:34.00
CYNTHIA MALTRY		37	JOHN PITZER	41	MARGIE SIMSIC	52	EDITH HENDRY		81
NANCY EHRKE		39	CHRISTIAN BACHET	43	EMPIRE STATE	3:14.22	BILL CANNON		62
DAVID BACHLEDA		31	MARCIA BARRY	44	KITTY KESSLER	49	ART KELLEY		67
DAVID FARRELL		37	DIANA TRACY	39	JAMES FORBES	66	A. CARRIER		73
HSAM A		2:08.38	HSAM A	2:30.41	ANN MCDONNELL	54	BOLT		4:44.89
VICKY DAVIDSON		28	MAUREEN MARKS	39	LEE DAMBRA	64	LOUISE OFFNER		74
RON SCHAFFER		35	MARILYN RAMEY	52	HSAM	3:14.51	MIKE OFFNER		78
PATTY STARKS		32	LEE MENCH	40	CECILY MCNEIL	47	BARBARA BOWER		54
TODD ROYAL		27	DAVID SAPPER	38	CAROL SING	51	MAURICE STERN		76
MICHIGAN		2:11.47	MICHIGAN	2:34.09	DAVID SZUCH	49			
PAT MANKIN		37	LINDA TSOUMAS	34	RUDOLPH SAPPER	60	320+		
STEVE COLELLA		37	JUDY MARKUSIC	37	INLAND EMPIRE	3:23.10	R:SAN MATEO	91	4:23.02
ANDY PTASHNIK		27	HARVEY HANSEN	44	SANDY MCCOY	48	JOE KAUFMAN		
ANN MCCLURE		27	ELMER EGELKRAUT	58	C.J. HAMILTON	78	HILDA BUEL		
RALEIGH AREA		2:13.15	WIS MASTERS	2:38.80	GARRY HARN	56	RAY TAFT		
SHERRY HART		37	NANCY KRANPITZ	47	MAIDY KRESS	41	MARGARET KEIL		
ALLEN LYDICK		39	CANDY CHRISTENSON	45	PARIS ISLAND	3:29.26	SAN MATEO		4:43.31
HILL CARROW		39	JOHN MANIACI	41	DAVID PAINTER	54	JOE KAUFMAN		87
SUE HAUGH		31	ARTHUR SANCHEZ	42	GAMBRELL FOSTER	53	HELEN ROUMASSET		77
WH20		2:13.56	HSAM B	2:41.02	JOHN KENT	45	RAY TAFT		73
ANDREA DEVUONO		30	DOUGLAS SELBY	47	KAREN FADY	50	MARGARET KEIL		86
ROBERT COOK		34	JERRY O'MARA	45	240+		*****		
MORRI SPANG		36	ANNE LANGSAFF	31	R:LOS ALTOS	91	RELAYS: MIXED 400 M. FREE		
SCOTT GENKINGER		33	CHRISTINE BIBY	45	DELLA SEHORN	2:32.46	*****		
SBAY A		2:16.38	MICHIGAN	2:41.90	JOHN RICHARDS		76 +		
NADINE THOMPSON		33	MERLYN EWBank	72	LAURA VAL		R:CONN	92	4:25.28
CAROLE SHIGAKI		37	IDA SMITH	58	JAY CRADDOCK		ROB TORGERSON		
ROBERT EBERWINE		32	TIMOTHY MCGINNIS	32	FGC	2:35.86	JERIANNE DONNELLY		
BRIAN KELCA		32	STEPHEN GALLAGHER	30	ANNE MCGUIRE	58	MARCEL BACLASKI		
OREG		2:18.72	BOLT	2:42.83	MARGARET TIMMINS	62	ZACH FACER		
STEPHEN A MANN		39	DEAN EKBERG	37	DON SONIA	62	CONN		4:25.28
M.HOLMBERG		39	ELLEN HALL	41	HERB KERN	60	MARCEL BACLASKI		23
JOANIE M KREHBIEL		30	JOHN LANE	46	ST. LOUIS	2:41.90	ZACH FACER		19
MICHAEL J TENNANT		38	KATHERINE GREGORY	40	ED ROSENHAUER	61	JERIANNE DONNELLY		42
INLAND EMPIRE		2:19.24	200+		CAROL TAYLOR	63	ROB TORGERSON		30
TODD MARSH		30	R:LINCOLN	89	ARDETH MUELLER	51	DAVIS AQUATIC		4:53.08
ELIN ZANDER		37	BETTY BENNETT	2:15.20	ROBERT BLAKE	67	TROY HAIGHT		21
VICKI MARSH		29	WILLIAM MULLIKEN		SAN DIEGO SWIM	2:47.85	TODD BAILEY		22
CHARLES REED		35	IRENE DAVID		BOBBI I TURCOTTE	64	JENNIFER BLAKE		23
MICHIGAN		2:19.81	PAUL HUTINGER		TOM DOWELL	70	JULIE THOMPSON		20
RANDY SCHLEGEL		39	RALEIGH AREA	2:21.28	BARBARA G DUNBAR	43			
TAMI COLELLA		33	CEIL BLACKWELL	52	JERRY R SIEFERT	74	100+		
SANDRA SCHWENDT		26	DAWN STROUPE	54	MICHIGAN	3:12.57	R:DAVIS AQUATIC	92	4:16.92
JOHN SHEARD		26	JAMES GREEN	47	FRED SHERRIFF	80	KEVIN PEARSALL		
AFAM		2:21.37	C.LE BOURGEOIS	58	BETTY HANSEN	46	CHRISSIE CHICHE		
ANNA PLANTIER		29	MICHIGAN	2:25.18	DON KORTEN	65	DERRICK SCOVEL		
PETER HUISVELD		41	FRANK THOMPSON	40	SUSAN BOND	55	CHRISTINE WINN		
ALEXANDRA FABBRO		28	JOHN REESE	66	HSAM	3:15.56	DAVIS AQUATIC		4:16.92
CLAUDE WISE		41	LOIS NOCHMAN	67	NANCY REED	65	KEVIN PEARSALL		25
160+			ANNE ASHER	27	EUGENE SAPPER	63	CHRISSIE CHICHE		29
R:GREATER INDIANA	89	2:07.18	SDSM	2:25.25	RON WILLIAMSON	54	DERRICK SCOVEL		25
SALLY HASBROOK			BETSY JORDAN	55	ELFRIEDE LEHTO	59	CHRISTINE WINN		26
SHARON WISE			PETER RIDDLE	54	BOLT	3:51.05	HEARTLAND S A M		5:11.79
TOM PERRIN			RICK KOZLOWSKI	40	BETTY RUSSO	61	MIKE L TOLMAN		24
ROGER JONES			JEANNE LITTLE	55	DICK BOWER	62	CESAR J ROMERO		31
CONN		2:19.23	SCAQ	2:41.62	RICHARD DANIEL	66	SHELLY I TOLMAN		29
JOHN PHILLIPS		45	LINDA TEPE	45	JOYCE CONSTANCE	60	SHERYL A CONNER		31
SALLY BRUNSON		43	SYLVIA GLENN	54					
MARCELLE BACLASKI		23	LEE ARTH	67	280+		120+		
MIKE CASEY		49	WAYNE MCCAULEY	44	R:CONN	92	R:S CALIF AQ	89	4:05.98
COLONIALS 1776		2:24.70	WALNUT CREEK MA	2:42.21	NANCY PHILLIPS		MICHAEL HEATHER		
CATHERINE FITCH		40	MIKE MILLIMAN	57	ROGER CHAMBERLAIN		CLAY EVANS		
M.GWIAZDOWSKI		35			RONNIE KAMPHAUSEN		DIANE GRANER		
							JOANNE BECK		

TOP TEN SHORT COURSE METERS

HSAM	4:19.17	VIRGINIA BENDIK	39	120+		JOHN BROUK	75
VICKY DAVIDSON	28			R:TEXAS SWIMMASTER88	4:56.95	O*H*I*O MASTERS	7:03.55
RANDALL EICKHOFF	27	200+		CATHY PHILLIPS		LUISE EASTON	53
CHARLES HARTJE	33	R:OREGON	90	RICH ENRIGHT		JOHN DAILY	64
PATTY STARKS	32	BARBARA FRID		LARRY WOOD		PAUL KRUP	75
DAVIS AQUATIC	4:40.42	HUGH RICHARDS		AMY HUBER		MARIANNE BROGAN	57
EDUARDO FERNAND	28	GINGER PIERSON		O*H*I*O MASTERS	5:35.68		
CHAZZ HESSELEIN	37	ROBERT SMITH		RICHARD BAUSCHARD	47	280+	
ELLEN MORATTI	33	WALNUT CREEK	5:20.00	HARRY GREENFIELD	46	R:CONNECTICUT	88 7:42.99
MELISSA BEATY	35	JOAN ALEXANDER	60	BECKY POLLACK	31	NANCY PHILLIPS	
MOUNTAIN VIEW	4:43.47	DONNA MONROE	59	JENNIFER UEBELE	26	GUS LANGNER	
MO CHAMBERS	34	DON DAVIS	48	WOOSTER MASTERS	6:00.25	ROGER CHAMBERLAIN	
SUZANNE TOPP	25	TOM HENDRY	49	PATRICE DAWE	29	DOROTHY DONNELLY	
KENNY LEADER	33	LAKESIDE	5:30.12	J. FEATHERSTONE	38	ST. LOUIS	8:11.06
LOWELL STAVELAN	34	JAMES GOODWIN	45	JONATHAN HARVEY	35	EDITH HENDRY	81
WOOSTER MASTERS	5:02.37	RICHARD SCHEU	51	JIM BABCOCK	42	BILL CANNON	62
PATRICE DAWE	29	MARY ANN STONE	59			A. CARRIER	73
REGINALD KRAMER	39	LINDA HUBBUCH	47	160+		ART KELLEY	67
MARY WYNN	32	O*H*I*O MASTERS	6:06.41	R:CONN	92 4:50.99		
JONATHAN HARVEY	35	LUISE EASTON	53	KATHERINE BRANCH		320+	
MOUNTAIN VIEW	5:03.36	MARIANNE BROGAN	57	BOB KANE		R:SAN MATEO	92 10:40.94
NICOLA MERVICH	34	DOUG BROGAN	60	MIKE LAUX		JOE KAUFMAN	
TIM HENN	31	JULIO APONTE	47	DONNA NEARY		HELEN ROUMASSET	
SUSAN FODEN	39			CONN	4:50.99	RAY TAFT	
CRAIG GRIMES	36	240+		KATHY BRANCH	35	MARGARET KEIL	
MOUNTAIN VIEW	5:56.75	R:TAMALPAIS	88 5:55.13	BOB KANE	37	SAN MATEO	10:40.94
ELISA THOMPSON	37	CHARLOTTE JENKINS		MIKE LAUX	51	JOE KAUFMAN	87
MIKE JONES	31	ROBERT BURNS		DONNA NEARY	37	HELEN ROUMASSET	77
KRISTY BURNS	29	DORE SCHWAB		EMPIRE STATE	5:01.39	RAY TAFT	73
STEVE RAIFF	23	NANCY RIDOUT		KAREN FARNSWORTH	36	MARGARET KEIL	86
		ST. LOUIS	6:21.02	JON EINSIDLER	41	*****	
160+		CAROL TAYLOR	63	ARTHUR COLEMAN	40	RELAYS: MIXED 800 M. FREE	
R:LOS ALTOS	88 4:29.69	JEAN SCHNORBUS	66	PHYLLIS SPRINGER	43	*****	
LAURA VAL		GENE PENZEL	57	LAKESIDE	5:06.07	76 +	
ED CAZALET		ROBERT BLAKE	67	MARY CHRIS CURL	35	R:DAVIS AQUATIC	92 9:17.27
ARLENE PROEBSTING		EMPIRE STATE	7:12.36	TONY AMBROSE	47	BRIAN TIMMERMAN	
DICK THOMAS		ETHEL AUTORINO	63	GLENN HUBBUCH	47	SCOTT SHEA	
ROLLING HILLS	4:46.34	LILLIAN FORMAN	56	MELINDA SCHMITT	34	CHRISTINE WINN	
GEORGE VIGUIE	48	ART TEBBENS	63	GREAT OHIO SWIM	6:44.78	CHRISSIE CHICHE	
DON PIERCE	47	RICHARD ELLIS	60	FREDERICKA RAPP	48	DAVIS AQUATIC	9:17.27
MAGGIE TEVIS	44			DONALD KROEGER	49	BRIAN TIMMERMAN	21
DIANE URSIN	29	280+		THOMAS E. MOYER	44	SCOTT SHEA	22
DAVIS AQUATIC	5:06.88	R:SAN MATEO	89 6:26.07	P. STRICKLAND	52	CHRISTINE WINN	26
ANDY MCPHERSON	45	AUDREY ETIENNE				CHRISSIE CHICHE	29
TOM MCKENNA	41	FRED TAIOLI		200+			
BETTY DUGAN	51	HELEN ROUMASSET		R:SAN DIEGO	91 5:13.60	100+	
ROSWITA NORRIS	49	RAY TAFT		BETSY JORDAN		R:ARIZONA	92 9:03.17
HSAM	5:36.20	ST. LOUIS	7:44.04	PETER RIDDLE		JIM STITES	
ALBERT HALL	34	EDITH HENDRY	81	BARBARA DUNBAR		MONICA BAILEY	
LARRY TAGGESELL	39	DON SERY	68	BILL EARLY		STACY COSTA	
CAROL SING	51	A. CARRIER	73	OREG	5:20.93	AL JAEGER	
JUDY TILARO	57	BILL CANNON	62	ROBERT S SMITH	49	ARIZ	9:03.17
SPM	6:00.05	*****		GINGER L PIERSON	46	JIM STITES	35
HARRY M. PIPER	57	RELAYS: MIXED 400 M. MEDLEY		SANDI ROUSSEAU	45	MONICA BAILEY	31
J.G. PIPER	55	*****		ERIC GP. GUEST	63	STACY COSTA	23
BRUCE E. DAY	42	76 +				ALLAN JAEGER	30
NANCY K. KIERNAN	38	R:INLAND EMPIRE	87 5:26.32	240+		DAVIS AQUATIC	9:44.20
SBAY	6:10.02	SUSAN HANCOCK		R:ST LOUIS	92 5:59.74	TODD GREENE	22
JUDY WILLIAMSON	49	CHASE COPELAND		ED ROSENHAUER		GAYLE DUNCAN	20
PATRICIA BAXTED	55	DON STORY		CAROL TAYLOR		CATHY CARR WEST	38
CHRIS FROGLEY	49	LOUISE WALLS		ARDETH MUELLER		DERRICK SCOVEL	25
JAMES KONO	40	NO RELAY TEAMS		ROBERT BLAKE			
GREAT OHIO SWIM	6:16.49			ST. LOUIS	5:59.74	120+	
FREDERICKA RAPP	48	100+		ED ROSENHAUER	61	R:SAN DIEGO	89 9:12.88
RUSSELL HUDSON	50	R:AIR FORCE AQU	90 4:48.01	CAROL TAYLOR	63	JENNIFER CAINE	
P. STRICKLAND	52	JUDY HOPP		ARDETH MUELLER	51	MARILYN FINK	
DONALD KROEGER	49	ROBERT CANINO		ROBERT BLAKE	67	MICHAEL LYLE	
HSAM	6:28.59	KIMBERLY ARATA		ST. LOUIS	6:21.71	JEFFERY MILTON	
BRUCE MENZIES	43	JOHN MCCORMICK		CATHY KOHN	39	DAVIS AQUATIC	9:40.86
JIM BOLLMAN	39	NO RELAY TEAMS		PENNY TAYLOR	63	MELISSAA BEATY	35
MAUREEN MARKS	39			ART KELLEY	66	GREG JOHNSON	35

TOP TEN SHORT COURSE METERS

LISA STRAMPAACH	33	CAROL TAYLOR	
ANDY MCPHERSON	45	JEAN SCHNORBUS	
ST. LOUIS	10:28.85	ST. LOUIS	12:38.59
RICH YAWITZ	38	ROBERT BLAKE	67
C. ECKENRODE	30	BRUCE COONAN	45
GEORGE ROLBY	44	CAROL TAYLOR	63
SUSAN RICHMOND	31	JEAN SCHNORBUS	66
MOUNTAIN VIEW	10:30.62	HSAM	14:33.40
ERIC WOLFF	32	EUGENE SAPPER	63
MO CHAMBERS	34	RUDOLPH SAPPER	60
SUSAN FODEN	39	MARILYN RAMEY	52
KURT STOLL	32	NANCY REED	65
HSAM	10:47.88		
MICHAEL SAPPER	36	280+	
KELLI DOLE	34	R:SPACE COAST	87 20:36.33
STACY JOHNSON	29	VERA BROWN	
GEORGE DALL	37	SUE MCGAUGHEY	
		GUS SPOHN	
		RICHARD FLETCHER	
160+		NO RELAY TEAMS	
R:ST. LOUIS	91 9:32.22		
ARDETH MUELLER			
GARY JEWELL			
LESLIE COOPER			
LEO LETENDRE			
EMPIRE STATE	9:44.55		
JON EINSIDLER	41		
JANE KATZ	49		
KAREN FARNSWORTH	36		
JOHN NEEDHAM	39		
GOLW	10:30.25		
RITA SIMONTON	74		
NANCY MITCHELL	31		
PAUL IKIOKA	28		
DON SKEOCH	29		
HSAM	11:15.59		
JERRY O'MARA	45		
BRUCE MENZIES	43		
LYNN MACDONALD	37		
SHERYL WALKER	36		
HEARTLAND S A M	11:16.84		
MIKE A PHILLIPS	50		
DAVE BUTLER	44		
SHERYL E DACSO	41		
PATTY M STARKS	32		
ALMADEN SWIM	11:51.99		
J. BECKER	48		
J. NEUROTH	45		
M. BLISS	46		
M. FARNSWORTH	52		
GREAT OHIO SWIM	12:44.03		
FREDERICKA RAPP	48		
THOMAS E. MOYER	44		
DONALD KROEGER	49		
P. STRICKLAND	52		
200+			
R:SAN DIEGO	89 10:40.03		
WILLIAM EARLEY			
WILLIAM PHILLIPS			
BETSY JORDAN			
BARBARA DUNBAR			
DAVIS AQUATIC	12:18.82		
DENNIS WILSON	42		
ROSWITA NORRIS	49		
STEVE CARLSON	73		
MELODY HERBST	37		
240+			
R:ST LOUIS	92 12:38.59		
ROBERT BLAKE			
BRUCE COONAN			

WORLD RECORDS

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

***** M E N *****			***** 25-29 *****			***** W O M E N *****			
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 JAEGER	400	M. I.M.	S. PALMER-WHITE	AUST	- -91	5:06.88
***** M E N *****			***** 30-34 *****			***** W O M E N *****			
22.82	10-15-89	JPN	ROWDY GAINES	50	M. FREE	SANDY NEILSON	USA	05-10-87	26.55
50.51	10-15-89	JPN	ROWDY GAINES	100	M. FREE	SANDY NEILSON	USA	06-18-88	57.35
1:50.91	10-15-89	JPN	ROWDY GAINES	200	M. FREE	SANDY NEILSON	USA	05-10-87	2:06.83
4:02.66	10-15-89	JPN	ROWDY GAINES	400	M. FREE	LYNN MARSHALL	CAN	10-05-92	4:30.59
8:34.26	10-15-89	USA	DAN STEPHENSON	800	M. FREE	LYNN MARSHALL	CAN	- -91	9:09.90
17:11.56	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 *****			***** 35-39 *****			***** W O M E N *****			
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 *****			***** 40-44 *****			***** W O M E N *****			
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

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 BERGENGREN	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 PISCIOтта	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

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	- -86 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

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.							

WORLD RECORDS

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

***** RELAY 200 M. FREE - WOMEN *****			***** RELAY 200 M. MEDLEY - WOMEN *****		
100+	SLAM-USA	10-15-89 1:58.02	100+	SWISS COTT-ENG	10-20-91 2:11.99
	SUSAN RICHMOND	CATHERINE KOHN		SUE GOLDSWORTHY	ALYSON JONES
	LESLIE COOPER	JEANNE HANISCH		CAROLINE HORDEN	TAM SIN JAGGS
120+	SLAM-USA	10-15-89 1:58.02	120+	SWISS COTT-ENG	10-20-91 2:11.99
	SUSAN RICHMOND	CATHERINE KOHN		SUE GOLDSWORTHY	ALYSON JONES
	LESLIE COOPER	JEANNE HANISCH		CAROLINE HORDEN	TAM SIN JAGGS
160+	DC MASTERS-USA	10-15-89 2:01.10	160+	SG NEUKOLLN-GER	11-03-90 2:18.65
	SUSAN SKIFF	BARBARA ZAREMSKI		S FELGENTRAGER	MONIKA SENFTLEBEN
	JAYNE BRUNER	JACKI HIRSTY		BRIGITTE MERTEN	RUTH STUBERT
200+	TAMALPAIS-USA	10-15-89 2:11.64	200+	SG NEUKOLLN-GER	11-10-91 2:29.96
	ANGELA KONIG	LAVERNE ADAMS		SIEGRID KURTZ	MONIKA SENFTLEBEN
	SHERRY RADEMACHER	NANCY RIDOUT		BRIGITTE MERTEN	MARGA SCHULZ
240+	SOLK HELLAS-SWE	04-16-89 2:42.57	240+	W.CTY WMCA-USA	12-05-92 2:52.00
	KERSTIN GJORES	KRISTINA VADEM		REGAN KENNER	CAROL TAYLOR
	MARIANNE GRANE	ANN-MARI GERANDT		ARDETH MUELLER	JEAN SCHNORBUS
280+	MANLY-AUST	10-27-91 3:13.88	280+	MANLY-AUST	10-26-91 3:28.26
	LILIAN JOHNSON	LIZ WALLIS		ELIZABETH WALLIS	BETTY CALLAGHAN
	BETTY CALLAGHAN	EILEEN PRICE		EILEEN PRICE	LILIAN JOHNSON
320+			320+		

***** RELAY 200 M. FREE - M E N *****			***** RELAY 200 M. MEDLEY - M E N *****		
100+	BARNET COPT-ENG	10-19-91 1:38.25	100+	GCWP-USA	10-15-89 1:50.73
	ANDY COTTER	ROB BARKER		BRIAN GOODELL	SCOTT BECKER
	JIM HOBSLEY	KEVIN FROST		JAY HERSEY	LYLE NALLI
120+	GCWP-USA	10-15-89 1:38.93	120+	GCWP-USA	10-15-89 1:50.73
	SCOTT BECKER	BRIAN GOODELL		BRIAN GOODELL	SCOTT BECKER
	JAY HERSEY	LYLE NALLI		JAY HERSEY	LYLE NALLI
160+	SWAM-USA	06-01-91 1:41.93	160+	SWAM-USA	06-01-91 1:55.51
	CHRIS MACCURDY	RIC NESBIT		CHRIS MACCURDY	RIC NESBIT
	JERRY HEIDENRICH	BRYAN AUSTIN		JERRY HEIDENRICH	BRYAN AUSTIN
200+	LOS ALTOS-USA	10-15-89 1:48.34	200+	LOS ALTOS-USA	10-15-89 2:02.44
	ROBERT PROEBSTING	EDWARD CAZALET		DICK THOMAS	THOMAS BOAK
	JOHN RICHARDS	DICK THOMAS		ROBERT PROEBSTING	JOHN RICHARDS
240+	MOTHERWELL-SCT	12-04-88 2:05.13	240+	GIMSUSA-USA	10-15-89 2:21.09
	JIM GIBSON	JIM MOTION		JOHN DILLEY	DOUGLAS SCOTT
	FORBES GENTLEMAN	KEN MCKAY		MEL GOLDSTEIN	DICK WEBBER
280+	HELLAS-SWE	03-27-88 2:11.80	280+	OREGON-USA	12-01-90 2:36.92
	ERIK KARLSSON	NILS FERM		EARL WALTER	FORBES MACK
	OLLE NYMAN	ARNE JUTNER		ANDREW HOLDEN	GERALD HUESTIS
320+			320+		

***** RELAY 200 M. FREE - MIXED *****			***** RELAY 200 M. MEDLEY - MIXED *****		
100+	JARFALLA-SWE	03-25-90 1:46.19	100+	LAKESIDE-USA	10-15-89 1:58.28
				WILLIAM TINGLEY	GINA GATTI
				MICHAEL HIGGS	MELINDA SCHMITT
120+	TEXAS-USA	10-15-89 1:48.60	120+	LAKESIDE-USA	10-15-89 1:58.28
	LESLIE OSBORNE	LARRY WOOD		WILLIAM TINGLEY	GINA GATTI
	GAIL MEAKINS	MEL NASH		MICHAEL HIGGS	MELINDA SCHMITT
160+	GIMSUSA-USA	10-15-89 1:50.55	160+	NEW ENGLAND-USA	12-08-90 2:07.34
	BILL VICKERY	SHARON WISE		PENNY NOYES	PHIL WHITTEN
	SALLY HASBROOK	BILL WOOD		DAN ROGACKI	JACKI HIRSTY
200+	LINCOLN-USA	10-15-89 1:57.25	200+	LINCOLN-USA	10-15-89 2:15.20
	PAUL HUTINGER	IRENE DAVID		BETTY BENNETT	WILLIAM MULLIKEN
	COLLEEN MALMEN	RAY PADOVAN		IRENE DAVID	PAUL HUTINGER
240+	LOS ALTOS	10-06-91 2:17.29	240+	LOS ALTOS	10-06-91 2:32.46
	JOHN RICHARDS	BERNA BENNETT		DELLA SCHORN	JOHN RICHARDS
	JAY CRADDOCK	CAROLYN BOAK		LAURA VAL	JAY CRADDOCK
280+	CONNECTICUT	04-20-88 2:38.80	280+	N LODGE-AUST	11-01-86 3:11.32
	JERRY JARROLD	DOROTHY DONNELLY			
	RUTH BILLARD	GUS LANGNER			
320+	SAN MATEO	10-06-91 3:52.73	320+	SAN MATEO	10-06-91 4:23.02
	JOE KAUFMANN	HILDA BUEL		JOE KAUFMAN	HILDA BUEL
	RAY TAFT	MARGARET KEIL		RAY TAFT	MARGARET KEIL

WORLD RECORDS

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

		WRL LCM RECORDS AS OF 11-01-92					
		*****	*****	*****	*****	*****	*****
*****	*****	M E N	*****	25-29	*****	W O M E N	*****
22.59	08-28-83	USA	KEVIN DEFORREST	50 M. FREE	SARA SHAND	USA	08-18-91 26.68
51.25	08-14-81	USA	JIM MONTGOMERY	100 M. FREE	SARA SHAND	USA	08-18-91 58.23
1:52.17	08-23-92	USA	JOHN KEPPELER	200 M. FREE	SARA SHAND	USA	07-30-89 2:07.11
4:06.99	- -88	BRA	MARCUS MATTIOLI	400 M. FREE	SARA SHAND	USA	07-30-89 4:27.53
8:36.83	08-23-92	USA	JEFF ERWIN	800 M. FREE	SARA SHAND	USA	07-30-89 9:18.43
16:28.69	08-08-87	USA	CAMERON REID	1500 M. FREE	AMY POPE	USA	08-28-88 17:38.78
27.39	- -86	BRA	R. ARANTES	50 M. BACK	DIANE GRANER	USA	08-20-89 30.80
58.24	08-23-92	USA	JOHN KEPPELER	100 M. BACK	MONIQUE RODAHL	NZL	- -89 1:06.46
2:07.57	08-23-92	USA	JOHN KEPPELER	200 M. BACK	DIANE GRANER	USA	08-20-89 2:19.97
29.88	- -86	USA	RICK HOFSTETTER	50 M. BRST	S. SEMINATORE	ITL	- -89 32.01
1:04.60	07-30-89	USA	DAVID LUNDBERG	100 M. BRST	S. SEMINATORE	ITL	- -90 1:16.05
2:26.73	- -87	GER	T. LIGL	200 M. BRST	S. DAVIES	ENG	- -90 2:42.02
25.16	-83-84	USA	DEFORREST/BOTTOM	50 M. FLY	ROSEMARIE SEAMAN	USA	08-24-87 28.79
56.34	04-28-84	USA	MICHAEL BOTTOM	100 M. FLY	ROSEMARIE SEAMAN	USA	08-24-87 1:03.91
2:05.25	- -84	CZEC	M. LUKASEK	200 M. FLY	S PALMER-WHITE	AUST	- -92 2:18.69
2:09.21	08-08-87	USA	CAMERON REID	200 M. I.M.	S. DAVIES	ENG	- -90 2:22.00
4:34.08	08-09-87	USA	CAMERON REID	400 M. I.M.	S. DAVIES	ENG	- -90 5:05.29
*****	*****	M E N	*****	30-34	*****	W O M E N	*****
23.21	11-24-90	USA	A ROWDY GAINES	50 M. FREE	S. NEILSON-BELL	USA	08-28-88 26.37
51.50	07-14-91	USA	A ROWDY GAINES	100 M. FREE	S. NEILSON-BELL	USA	10-15-88 58.09
1:54.04	07-13-90	USA	A ROWDY GAINES	200 M. FREE	BETH KNIGHT	USA	08-20-89 2:07.84
4:08.70	07-16-86	USA	JIM MONTGOMERY	400 M. FREE	BETH KNIGHT	USA	08-25-91 4:30.38
8:46.99	07-16-86	USA	JIM MONTGOMERY	800 M. FREE	LYNN MARSHALL	CAN	07-05-92 9:16.82
16:42.28	08-18-91	USA	RON NEUGENT	1500 M. FREE	KAREN BURTON	USA	08-23-92 17:40.50
27.32	10-15-88	USA	DIX OZIER	50 M. BACK	BETH MAUER	USA	10-15-88 32.11
1:00.19	07-05-92	USA	DAVID LUNDBERG	100 M. BACK	ZENA HERRMANN	USA	07-26-92 1:09.07
2:11.77	08-24-87	USA	THOMAS WOLF	200 M. BACK	ZENA HERRMANN	USA	08-23-92 2:26.99
29.42	07-05-92	USA	DAVID GUTHRIE	50 M. BRST	M. MOHMANN	ENG	- -88 34.56
1:05.65	08-18-91	USA	DAVID LUNDBERG	100 M. BRST	M. HOHMANN	ENG	- -88 1:14.52
2:24.06	08-18-91	USA	DAVID LUNDBERG	200 M. BRST	D. HILBIG	GER	- -89 2:48.41
25.31	10-15-88	USA	MIKE BOTTOM	50 M. FLY	BETH HARRELL	USA	07-05-92 29.22
56.64	10-15-88	USA	MIKE BOTTOM	100 M. FLY	BETH HARRELL	USA	07-05-92 1:06.08
2:07.71	08-09-87	USA	JIM BELARDI	200 M. FLY	KAREN BURTON	USA	08-23-92 2:27.54
2:09.69	08-18-91	USA	DAVID LUNDBURG	100 M. I.M.	S. NEILSON-BELL	USA	08-28-88 2:29.22
4:40.44	07-05-92	USA	DAVID LUNDBERG	400 M. I.M.	KAREN BURTON	USA	08-23-92 5:11.39
*****	*****	M E N	*****	35-39	*****	W O M E N	*****
24.56	07-05-92	RUS	ALEXEI MARKOVSKY	50 M. FREE	JACKI HIRSTY	USA	08-09-90 27.38
54.28	07-05-92	USA	JAMES MONTGOMERY	100 M. FREE	SUSAN HALFACRE	USA	08-28-88 1:00.25
1:57.95	07-05-92	USA	DAN STEPHENSON	200 M. FREE	SUSAN HALFACRE	USA	08-28-88 2:09.33
4:15.49	07-05-92	USA	DAN STEPHENSON	400 M. FREE	SUSAN HALFACRE	USA	08-28-88 4:33.08
8:52.22	07-05-92	USA	DAN STEPHENSON	800 M. FREE	SUSAN HALFACRE	USA	08-28-88 9:24.54
17:26.29	08-20-89	USA	JIM MCCONICA	1500 M. FREE	SUSAN PAMELIA	USA	08-24-87 18:12.11
28.04	08-26-78	USA	THOMPSON MANN	50 M. BACK	LAURA VAL	USA	07-22-90 32.39
1:01.60	- -90	AUST	B. COOPER	100 M. BACK	LAURA VAL	USA	07-30-89 1:10.94
2:13.83	07-29-90	USA	TOM WOLF	200 M. BACK	KAREN FARNSWORTH	USA	07-05-92 2:35.44
30.79	07-05-92	USA	DOUG MALCOLM	50 M. BRST	L WETZEL-OSBORNE	USA	08-20-89 34.41
1:07.90	07-05-92	USA	MARK SCHUMAN	100 M. BRST	L WETZEL-OSBORNE	USA	08-20-90 1:17.44
2:33.05	07-05-92	USA	MARK SCHUMAN	200 M. BRST	KAREN MELICK	USA	08-02-92 2:53.64
26.35	06-07-87	USA	PETER MUNGER	50 M. FLY	SUSAN HALFACRE	USA	08-28-88 29.27
58.08	07-05-92	USA	JAMES BELARDI	100 M. FLY	SUSAN HALFACRE	USA	08-28-88 1:05.39
2:09.18	07-05-92	USA	JAMES BELARDI	200 M. FLY	LAURA VAL	USA	07-30-89 2:26.38
2:16.49	07-05-92	USA	MARK SCHUMAN	200 M. I.M.	PATRICIA GILMORE	CAN	- -88 2:37.26
4:55.13	07-05-92	USA	JAMES BELARDI	400 M. I.M.	KAREN FARNSWORTH	USA	07-05-92 5:34.47
*****	*****	M E N	*****	40-44	*****	W O M E N	*****
25.25	- -83	USA	TIM GARTON	50 M. FREE	LAURA VAL	USA	08-23-92 28.05
56.01	-7-05-92	SA	TERENCE DOWNES	100 M. FREE	LAURA VAL	USA	07-26-92 1:02.99
2:04.82	08-20-90	USA	KEVIN POLANSKY	200 M. FREE	DOT MUNGER	USA	08-18-91 2:21.09
4:26.60	08-20-90	USA	KEVIN POLANSKY	400 M. FREE	BARBARA DUNBAR	USA	07-15-90 4:54.49
9:19.37	08-20-90	USA	KEVIN POLANSKY	800 M. FREE	BARBARA DUNBAR	USA	06-29-91 10:07.92
17:30.13	08-20-90	USA	KEVIN POLANSKY	1500 M. FREE	BARBARA DUNBAR	USA	08-30-92 19:00.40
29.38	08-12-90	USA	PETER O'KEEFFE	50 M. BACK	LAURA VAL	USA	08-23-92 32.42
1:03.39	08-11-90	USA	PETER O'KEEFFE	100 M. BACK	LAURA VAL	USA	08-23-92 1:11.03
2:18.17	08-12-90	USA	PETER O'KEEFFE	200 M. BACK	JUDY STEFANICK	USA	07-05-92 2:45.63
30.82	07-05-92	USA	PEDER DAHLBERG	50 M. BRST	A.WRIGHT-BELKNAP	USA	08-23-92 37.02
1:09.95	07-05-92	USA	PEDER DAHLBERG	100 M. BRST	DEBRA WALKER	USA	08-18-91 1:21.73
2:32.17	08-23-92	USA	RICK COLELLA	200 M. BRST	DEBRA WALKER	USA	06-30-91 3:01.46
27.04	08-18-91	USA	JOHN FOOTE	50 M. FLY	LAURA VAL	USA	08-23-92 30.13
1:02.05	08-29-80	USA	LANCE LARSON	100 M. FLY	LAURA VAL	USA	08-23-92 1:06.27
2:23.05	10-15-88	USA	BOB GALLAS	200 M. FLY	BARBARA DUNBAR	USA	08-06-89 2:33.51
2:18.92	08-23-92	USA	RICK COLELLA	200 M. I.M.	BARBARA DUNBAR	USA	08-12-90 2:43.49
4:57.46	08-23-92	USA	RICK COLELLA	400 M. I.M.	BARBARA DUNBAR	USA	07-28-91 5:45.58

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
2:34.01	04-04-92	NZL	BARRY YOUNG	200 M.	BACK	BETSY JORDAN	USA	08-24-87	3:01.07
33.38	- -86	JPN	H. KOTEGAWA	50 M.	BRST	MONIKA SENFLEBEN	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

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. TERA0	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

WORLD RECORDS

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

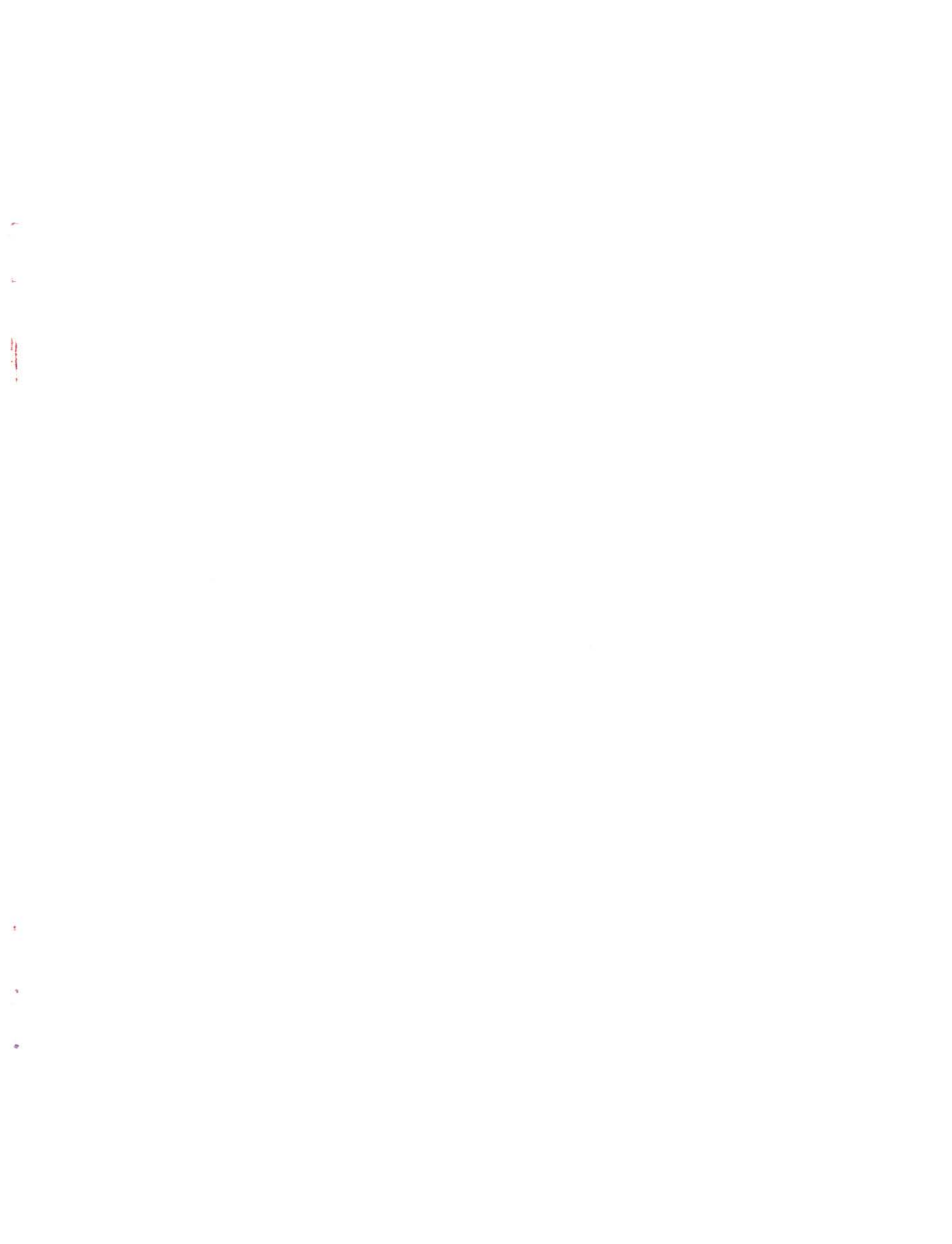
***** M E N *****			85-89 *****			***** W O M E N *****		
44.65	07-23-89	USA	GUS LANGNER	50 M.	FREE	AILEEN SOULE	USA	06-09-91 51.48
1:43.03	10-15-88	USA	GUS LANGNER	100 M.	FREE	AILEEN SOULE	USA	08-18-91 2:07.61
3:48.91	10-01-88	USA	GUS LANGNER	200 M.	FREE	AILEEN SOULE	USA	08-18-91 4:49.52
8:14.50	08-28-88	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.			

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-GER	- -91	2:18.38
	JACKI HIRSTY	NANCY KIRKENDALL			S FELGENTRAGER	MONIKA SENFTLEBEN	
	ANN SVANSON	SUE HARRINGTON			BRIGITTE MERTEN	RUTH STUBERT	
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+				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
	J.C. DOS SANTOS	G.L. FERNANDES			BRAD COOPER	NEIL GYNTHNER	
	M.S. GOLDENSTEIN	J.G. MOREISA			ANKER BRODERSON	ANGUS WADDELL	
120+	LONE STAR	07-16-86	1:37.43	120+	POWERS-AUST	- -90	1:49.84
	DAVID HAGUE	JAMES MONTGOMERY			BRAD COOPER	NEIL GYNTHNER	
	TRIP HEDRICK	BUCK SMITH			ANKER BRODERSON	ANGUS WADDELL	
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
					THOMAS WOLF	MATTHEW KANZLER	
					SUSAN SKIFF	JACKI HIRSTY	
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					
	PETEY 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	



USMS TOP TENS

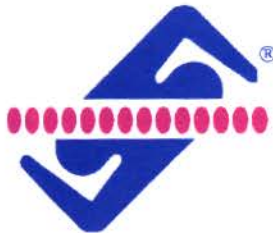
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Relay All Americans. If you swam on a relay that is listed in *first place* on any one of our three official courses for 1992 (Short Course Yards or Meters, or Long Course) you are eligible for a Relay All American patch and certificate. Send check for \$5 payable to USMS to the National Office.

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The Top Ten Subscription Crew...Walt Reid, Betsy Durrant, Gene Donner, Dorothy Donnelly.

Published April 1993



**United States
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