

\$6.00

**United States
Masters Swimming, Inc.**

**1992/1993
Top Ten
Short Course Yards**

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



Published September 1993

TOP TEN SHORT COURSE YARDS

50 YD. FREE WOMEN 19-24	50 YD. BACK WOMEN 19-24	2:39.55 KIMBERLY MONAGHAN 23	5:05.01 WENDY HANSEN 24
23.97 SUDI MILLER 91	27.85 DEBBIE RISEN 90	50 YD. FLY WOMEN 19-24	*****
24.28 PEGGY GROSS 24	28.67 SUSIE BURT 21	26.59 SUDI MILLER 91	50 YD. FREE WOMEN 25-29
24.61 MICHELLE H CHOW 24	29.00 H. COULSON-MOORE 23	27.52 JULIE MARTIN 23	23.20 ANNA PETTIS-SCOTT92
25.36 MONIQUE NICOLAO 20	29.30 JENNIFER TONON 22	27.54 PEGGY GROSS 24	24.11 DANA DUTCHER 25
25.37 MINOO GUPTA 23	30.15 JAMIE SORRENTINO 19	27.55 MICHELLE H CHOW 24	24.23 JENNY SUSSER 26
25.70 KARA HOPKINS 23	30.18 TINA ESSEX 22	27.61 SUNNY SMILEY 22	24.66 COLLETTE HOWARD 28
25.81 MICHELLE GHIGGERI 24	30.26 TRACEY CRILLY 23	27.88 JENNIFER TONON 22	24.76 MICHELLE CHOW 25
25.92 ANDREA BARDIN 24	30.39 MARCELLE BACLASKI 23	28.17 H. COULSON-MOORE 23	24.93 JAMIE HERRINGTON 27
25.94 SUNNY SMILEY 22	30.40 CHERYL ATTUBATO 19	28.39 EMILY RAMIREZ 20	25.03 AIMEE LEHR 25
26.05 KATHERINE NOOK 22	30.56 KAY BLACKWOOD 24	28.95 HOLLY HUTTON 22	25.18 MARY KAVANEY 27
26.07 MELISA BELLOMO 21	30.56 MICHELE FOX 22	29.06 KATE EGAN 21	25.24 MARGARET MORTELL 29
100 YD. FREE WOMEN 19-24	100 YD. BACK WOMEN 19-24	29.09 KAY BLACKWOOD 24	25.28 ANN DEPUTY 25
52.08 SUDI MILLER 91	57.96 DEBBIE RISEN 90	100 YD. FLY WOMEN 19-24	25.29 BETH GARDNER 27
53.58 PEGGY GROSS 24	1:00.18 SUSIE BURT 21	57.39 SUDI MILLER 91	100 YD. FREE WOMEN 25-29
53.67 MICHELLE H CHOW 24	1:01.67 H. COULSON-MOORE 23	58.54 JULIE MARTIN 23	51.07 SARA SHAND 93
53.87 SUSIE BURT 21	1:02.58 JAMIE SORRENTINO 19	1:00.35 MICHELLE H CHOW 24	51.07 SARA SHAND 29
54.54 MONIQUE NICOLAO 20	1:03.45 SUNNY SMILEY 22	1:00.84 H. COULSON-MOORE 23	51.82 JENNY SUSSER 26
55.61 KARA HOPKINS 23	1:03.55 CHERYL ATTUBATO 20	1:01.51 JENNIFER TONON 22	52.22 DANA DUTCHER 25
55.83 ANDREA BARDIN 24	1:04.03 MARCELLE BACLASKI 23	1:01.74 MONIQUE NICOLAO 20	53.66 D.GRANER-GALLAS 28
55.91 LYNNE TEDESCO 23	1:05.10 TRACEY CRILLY 23	1:02.75 DENISE ELSON 24	53.75 BETH GARDNER 27
56.10 MINOO GUPTA 23	1:05.38 KATHERINE NOOK 22	1:02.92 JILL RODDIN 22	53.75 MICHELLE CHOW 25
56.20 KATE EGAN 21	1:05.59 TINA ESSEX 22	1:03.09 MICHELLE DAVID 22	53.78 AIMEE LEHR 25
56.38 SHARI THOMPSON 23	1:05.68 MICHELE FOX 22	1:03.17 ANNE OBERG 21	53.89 COLLETTE HOWARD 28
200 YD. FREE WOMEN 19-24	200 YD. BACK WOMEN 19-24	1:03.19 EMILY RAMIREZ 20	54.06 SUSIE RABIAH 26
1:54.22 DIANE GRANER 89	2:06.90 SUSIE BURT 93	200 YD. FLY WOMEN 19-24	54.32 STEPHANIE ELKINS 29
1:55.49 JULIE MARTIN 23	2:06.90 SUSIE BURT 21	2:11.03 SARAJANE TUREK 91	200 YD. FREE WOMEN 25-29
1:57.94 SUSIE BURT 21	2:16.09 SHANNON DAVIES 20	2:14.66 KYLE FISHER 22	1:51.53 SARA SHAND 93
1:59.14 LYNNE TEDESCO 23	2:17.27 CHERYL ATTUBATO 20	2:17.95 CHRISTINA PLANJE 23	1:51.53 SARA SHAND 29
2:00.28 PEGGY GROSS 24	2:17.39 CYNTHIA HINSHAW 23	2:19.72 JEANIE CHICKE 23	1:58.92 AMY KNOTT 25
2:00.53 CYNTHIA HINSHAW 23	2:19.11 H.COULSON-MOORE 23	2:19.78 JENNIFER BANASZEK 24	2:00.04 LISA DIAI 25
2:01.00 MONIQUE NICOLAO 20	2:19.85 SUNNY SMILEY 22	2:20.96 JENNIFER CRANNY 24	2:00.11 LAURIE HUG 28
2:01.13 BRENDA WICKLUND 24	2:20.35 MARCELLE BACLASKI 23	2:20.99 JILL RODDIN 22	2:00.37 AIMEE LEHR 25
2:01.21 SHANNON DAVIES 20	2:20.70 TRACEY CRILLY 23	2:21.13 DEANNA CONOSCENTI 23	2:00.55 ANN DEPUTY 25
2:01.99 ANNE OBERG 21	2:21.32 STACI KERR 21	2:21.80 KAY BLACKWOOD 24	2:00.56 LISA HAZEN 28
2:02.16 JEANIE CHICKE 23	2:22.02 NINA RADOJEVICH 21	2:21.97 H.CHRISTENSEN 21	2:00.69 C.FLORKOWSKI 25
500 YD. FREE WOMEN 19-24	50 YD. BRST WOMEN 19-24	2:23.64 K.BEHRINGER 23	2:00.77 SUSAN JONES 26
5:04.90 DIANE GRANER 89	30.25 SUSIE MORTENSON 93	100 YD. I.M. WOMEN 19-24	2:00.88 LESLEY CHEQUER 27
5:06.70 JULIE MARTIN 23	30.25 SUSIE MORTENSON 24	59.21 SUDI MILLER 91	500 YD. FREE WOMEN 25-29
5:18.97 LYNNE TEDESCO 23	32.45 JENNIFER TONON 22	1:01.51 SUSIE MORTENSON 24	4:56.18 KAREN BURTON 91
5:21.16 SHANNON DAVIES 20	32.88 PAMELA URBAS 21	1:02.73 JENNIFER TONON 22	5:12.61 LISA HAZEN 28
5:26.63 KYLE FISHER 22	33.60 CHERYL ATTUBATO 19	1:02.86 H. COULSON-MOORE 23	5:15.23 LESLEY CHEQUER 27
5:26.73 CYNTHIA HINSHAW 23	33.77 JACKIE DUNKLEE 19	1:02.96 CHERYL ATTUBATO 20	5:16.18 WENDY INGRAHAM 29
5:28.89 WENDY HANSEN 24	34.01 HEATHER MOORE 23	1:04.49 TRACEY CRILLY 23	5:16.54 LAURIE HUG 28
5:29.53 MONIQUE NICOLAO 20	34.14 KAREN HEARD 22	1:05.13 BETH MCDONNELL 22	5:18.72 SUSIE RABIAH 26
5:29.87 JEANIE CHICKE 23	34.18 MAUREEN T HASLACH 22	1:05.54 JEN FOSNAUGH 23	5:19.72 LORETTA SOFFE 26
5:31.00 JENNIFER CRANNY 24	34.20 JANET HAUER 24	1:05.70 JAMIE SORRENTINO 19	5:23.08 C.FLORKOWSKI 25
5:33.28 SHARI THOMPSON 23	34.32 MARY KUSKOWSKI 24	1:05.71 DENISE ELSON 24	5:23.80 REBECCA FENSON 25
1000 YD. FREE WOMEN 19-24	100 YD. BRST WOMEN 19-24	1:06.07 KAY BLACKWOOD 24	5:23.80 JENNIFER CRANNY 25
10:41.76 MARILYN PECK 92	1:06.74 SUSIE MORTENSON 93	200 YD. I.M. WOMEN 19-24	5:24.92 DIANE SAGASER 26
11:19.77 CHRISTINA PLANJE 23	1:06.74 SUSIE MORTENSON 24	2:08.74 SUDI MILLER 91	1000 YD. FREE WOMEN 25-29
11:22.45 DONNA BRAUN 23	1:09.26 LOUISE KEOGH 24	2:12.05 JENNIFER TONON 22	10:17.82 KAREN BURTON 91
11:27.85 HEATHER WOLFENDEN 23	1:09.89 LYNNE TEDESCO 23	2:13.09 SUSIE BURT 21	10:46.85 WENDY INGRAHAM 29
11:28.14 JEANIE CHICKE 23	1:10.07 HOLLY HUTTON 22	2:13.42 SUSIE MORTENSON 24	10:49.53 LESLEY CHEQUER 27
11:37.40 MELISA BELLOMO 21	1:10.13 JENNIFER TONON 22	2:15.07 JULIE MARTIN 23	10:58.27 LORIE HUG 26
11:40.59 SUSAN WILLIS 24	1:10.24 PAMELA URBAS 21	2:15.97 H. COULSON-MOORE 23	11:00.94 DIANE SAGASER 26
11:42.69 LAURA ANTONIETTA 22	1:10.63 JANET HAUER 24	2:16.20 LYNNE TEDESCO 23	11:14.51 ANN DEPUTY 25
11:49.39 CHRISTINE SLOOK 23	1:10.98 E.A. SOLLEE 21	2:19.02 JACKIE DUNKLEE 19	11:20.23 MARCIA CLEVELAND 29
12:02.96 JENNIFER FRERICHS 23	1:12.07 JACKIE DUNKLEE 20	2:19.46 HOLLY HUTTON 22	11:20.28 JANE KLEINE 27
12:18.31 AMY PATTON 23	1:12.45 KAREN HEARD 22	2:19.76 JANET HAUER 24	11:20.28 JENNIFER KEOGH 29
1650 YD. FREE WOMEN 19-24	200 YD. BRST WOMEN 19-24	2:20.07 KAY BLACKWOOD 24	11:21.40 C.FLORKOWSKI 25
17:31.70 KAREN BURTON 87	2:25.40 ANNE TWEEDY 87	400 YD. I.M. WOMEN 19-24	11:24.49 SUSAN DUNCAN 27
18:36.22 KYLE FISHER 22	2:27.62 SUSIE MORTENSON 24	4:45.34 NANCY STAUFFER 88	1650 YD. FREE WOMEN 25-29
18:47.45 CHRISTINA PLANJE 23	2:32.51 JANET HAUER 24	4:46.11 LYNNE TEDESCO 23	16:50.17 KAREN BURTON 91
18:49.29 CYNTHIA HINSHAW 23	2:35.54 CHRISTINE SCHULTZ 21	4:46.36 SHANNON DAVIES 20	17:51.92 LISA HAZEN 28
18:57.00 WENDY HANSEN 24	2:35.60 JACKIE DUNKLEE 19	4:51.73 CHRISTINE SCHULTZ 21	18:05.58 LAURIE HUG 28
20:00.00 DONNA BRAUN 23	2:35.79 MAUREEN HASLACH 22	4:53.13 CHRISTINA PLANJE 23	18:19.88 JILL GELLATLY 25
20:26.11 AMY DE ARMOND 24	2:37.12 STACY COSTA 23	4:53.23 KARIN SCHMIDT 23	18:31.25 JENNIFER CRANNY 25
20:32.37 AMY PATTON 23	2:37.31 KAREN HEARD 22	4:56.42 KYLE FISHER 22	18:56.34 SUSIE BLAKE 27
20:42.94 JULIE LEEPER 24	2:38.04 LOUISE KEOGH 24	4:56.51 TRACEY CRILLY 23	18:57.67 ANNA RAY 29
20:55.43 KAREN HEARD 22	2:38.53 PAMELA URBAS 21	5:03.70 JENNIFER CRANNY 24	18:59.06 MARCIA CLEVELAND 28
21:02.00 LISA GARNER 23	2:39.55 BETH MCDONNELL 22	5:04.06 NINA RADOJEVICH 21	19:01.47 C.CHICHESTER 29

TOP TEN SHORT COURSE YARDS

19:15.10 ELIZABETH NOWAK 29	2:36.96 MERIT L. GREAVES 28	4:51.35 JILL GELLATLY 25	18:54.87 SUE ALTMAN 30
19:27.04 DEIRDRE FISHER 29	2:37.94 SARA DEMYANOVICH 28	4:51.90 KAREN JACOBSON 26	19:13.03 SUSAN JAMES 30
50 YD. BACK WOMEN 25-29	50 YD. FLY WOMEN 25-29	*****	19:13.60 LESLIE COOPER 33
26.76 DIANE GRANER 89	25.68 LINDA LANINI 87	50 YD. FREE WOMEN 30-34	50 YD. BACK WOMEN 30-34
27.94 JILL ROTHKOPF 26	26.83 DANA DUTCHER 25	23.04 S NEILSON-BELL 88	27.36 S WALSH-STANKAVAG92
28.31 AIMEE LEHR 25	26.86 SUDI S. MILLER 26	24.03 ANNA SCOTT 30	28.03 CHRIS BREEDY 33
28.45 DANA DUTCHER 25	27.14 ANGELA BROUGH 26	24.24 LIZ HOBBS 31	28.53 LIZ HOBBS 31
28.72 SUDI S. MILLER 26	27.19 D.GRANER-GALLAS 28	24.63 GRACIE GODDARD 33	28.57 SHEILA MORTELL 31
28.73 BETH GARDNER 27	27.28 LINDA S. NEARY 28	24.89 LYNN WITTSTOCK 30	28.71 ZENA HERRMANN 33
28.77 MARTIE MCKINNEY 28	27.53 MICHELLE CHOW 25	25.13 SHEILA MORTELL 31	28.82 LYNN WITTSTOCK 30
29.00 SHERRY GAERTNER 29	27.55 MARTIE MCKINNEY 28	25.26 ELLEN ATKINSON 30	29.11 JUDY LALLIER 33
29.12 JAMIE HERRINGTON 27	27.58 COLLETTE HOWARD 28	25.28 KATHY GARNIER 32	29.37 PAMELA BOSCOVICH 30
29.27 DONNA BUCKENDAHL 26	27.68 JENNIFER UEBELE 28	25.31 LINDA TANKERSLEY 30	29.55 KAREN ANDREWS 30
29.30 TRISCHA ZORN 28	27.72 JAMIE HERRINGTON 27	25.32 KELLY ASPLUND 31	29.60 JILL BLACK 30
100 YD. BACK WOMEN 25-29	100 YD. FLY WOMEN 25-29	25.33 BETH SCHEIMANN 30	29.76 MONICA BAILEY 32
56.70 DIANE GRANER 91	57.01 DIANE GRANER 91	100 YD. FREE WOMEN 30-34	100 YD. BACK WOMEN 30-34
57.65 D.GRANER-GALLAS 29	57.12 SARA SHAND 29	50.83 SANDY NEILSON 87	59.47 ZENA HERRMANN 93
1:00.56 JILL ROTHKOPF 26	57.80 D.GRANER-GALLAS 29	52.11 ANNA SCOTT 30	59.47 ZENA HERRMANN 33
1:00.68 MARRIE MCKINNEY 28	59.39 SUDI S. MILLER 26	53.56 LIZ HOBBS 31	59.59 SHEILA MORTELL 31
1:00.98 DANA DUTCHER 25	59.71 LINDA S. NEARY 28	53.79 LYNN WITTSTOCK 30	1:00.01 CHRIS BREEDY 33
1:01.84 AIMEE LEHR 25	1:00.11 MARTIE MCKINNEY 28	53.96 BETH KNIGHT 33	1:01.68 PAMELA BOSCOVICH 30
1:01.84 DONNA BUCKENDAHL 26	1:00.26 MICHELLE CHOW 25	54.23 SHEILA MORTELL 31	1:03.07 JUDY LALLIER 33
1:01.92 COLLETTE HOWARD 28	1:00.66 BETHANNE LAMBERT 26	54.23 GRACIE GODDARD 33	1:03.22 MONICA BAILEY 32
1:02.11 JAMIE HERRINGTON 27	1:00.94 ALICE PHILLIPS 27	54.42 ZENA HERRMANN 33	1:03.85 JILL BLACK 30
1:02.15 M.DONAHUE 25	1:00.99 MARGARET MORTELL 29	54.45 CAROL OLSON 30	1:03.88 ERIN BORDEN 31
1:02.17 SHERRY GAERTNER 29	1:01.01 LORETTA SOFFE 26	55.19 BETH SCHEIMANN 30	1:04.54 PAULA ROEMER 32
200 YD. BACK WOMEN 25-29	200 YD. FLY WOMEN 25-29	55.22 KIM ELSBACH 30	1:04.65 LIZ HOBBS 31
2:01.29 DIANE GRANER 91	2:03.38 JUNE FORD 87	200 YD. FREE WOMEN 30-34	200 YD. BACK WOMEN 30-34
2:03.96 D.GRANER-GALLAS 29	2:08.85 SARA SHAND 29	1:52.57 SANDY NEILSON 87	2:06.26 ZENA HERRMANN 93
2:11.85 MARTIE MC KINNEY 28	2:11.63 BETHANNE LAMBERT 26	1:57.38 BETH KNIGHT 33	2:06.26 ZENA HERRMANN 33
2:12.23 DONNA BUCKENDAHL 26	2:12.45 KAREN JACOBSON 26	1:58.11 JUDY LALLIER 33	2:09.04 SHEILA MORTELL 31
2:14.13 SHERRY GAERTNER 29	2:13.39 JENNIFER CRANNY 25	1:58.67 CAROL OLSON 30	2:10.00 JUDY LALLIER 33
2:14.87 JILL ROTHKOPF 26	2:14.16 LORETTA SOFFE 26	1:58.86 ZENA HERRMANN 33	2:14.10 PAMELA BOSCOVICH 30
2:15.27 ANNA RAY 29	2:14.27 LINDA NEARY 29	1:59.20 KAREN BURTON 30	2:15.76 ERIN BORDEN 31
2:15.35 M.DONAHUE 25	2:14.42 ANN DEPUTY 28	1:59.45 SUSAN PORTER 30	2:17.09 KAREN BURTON 30
2:15.98 SUSAN JONES 26	2:16.36 LAURIE HUG 28	1:59.57 JILL HERNANDEZ 32	2:17.55 MONICA BAILEY 32
2:16.28 JANICE LESYNA 26	2:16.86 MICHELLE CHOW 25	2:00.34 GRACIE GODDARD 33	2:18.47 PAULA ROEMER 32
2:16.71 KRISTEN CORBETT 26	2:17.45 MARCIA CLEVELAND 29	2:00.89 ELLEN FERGUSON 30	2:18.88 KIMBERLY ARATA 33
50 YD. BRST WOMEN 25-29	100 YD. I.M. WOMEN 25-29	2:01.42 KIM ELSBACH 30	2:20.54 ROBIN BELCHER 31
30.60 S MCINTYRE-WOODS 91	58.84 SARA SHAND 93	500 YD. FREE WOMEN 30-34	50 YD. BRST WOMEN 30-34
31.91 MERIT L. GREAVES 28	58.84 SARA SHAND 29	5:05.06 JUNE FORD 93	29.84 ROSEMARIE SEAMAN 89
31.92 DANA DUTCHER 25	1:00.08 DANA DUTCHER 25	5:05.06 JUNE FORD 31	31.62 AMY PLESS 30
31.94 BETHANNE LAMBERT 26	1:00.82 D.GRANER-GALLAS 29	5:05.53 KAREN BURTON 30	32.25 BETH SCHEIMANN 30
32.55 KATHY WAGGONER 26	1:01.73 SUDI S. MILLER 26	5:07.00 JILL HERNANDEZ 32	32.46 DENISE FRECH 31
32.60 CORRIN CONVIS 28	1:02.60 AIMEE LEHR 25	5:11.53 BETH KNIGHT 33	32.84 ELLEN ATKINSON 30
32.63 SHEILA ARRENDONDO 25	1:03.09 COURTNEY SEARCY 25	5:14.59 SUSAN PORTER 30	33.27 JULIE MALCOLM 32
32.68 COURTNEY SEARCY 25	1:03.21 MARTIE MCKINNEY 28	5:15.28 JUDY LALLIER 33	33.28 SUSAN RICHMOND 31
32.76 SUDI S. MILLER 26	1:03.22 SHERRY GAERTNER 29	5:19.62 ELLEN FERGUSON 30	33.37 HILARY MAIN 33
32.79 DEENA CROSSMORE 28	1:03.24 ELIZABETH MARESCO 26	5:21.51 ZENA HERRMANN 33	33.37 LISA HAWK 30
32.86 ELLEN ATKINSON 29	1:03.34 MARGARET MORTELL 29	5:22.38 SUZANNE HEIM 34	33.40 JANE ROBIE 34
100 YD. BRST WOMEN 25-29	200 YD. I.M. WOMEN 25-29	5:24.01 MARGEE CURRAN 32	33.45 JUDY LALLIER 33
1:06.50 S MCINTYRE-WOODS 91	2:05.98 SARA SHAND 93	1000 YD. FREE WOMEN 30-34	100 YD. BRST WOMEN 30-34
1:07.29 BETHANNE LAMBERT 26	2:05.98 SARA SHAND 29	10:31.89 BETH KNIGHT 90	1:05.05 ROSEMARIE SEAMAN 89
1:10.20 KARYN HEANEY 28	2:11.08 D.GRANER-GALLAS 29	10:41.44 JUNE FORD 31	1:10.41 ELLEN ATKINSON 30
1:10.26 COURTNEY SEARCY 25	2:12.62 MARTIE MCKINNEY 28	10:44.51 BETH KNIGHT 33	1:11.08 DENISE FRECH 31
1:10.35 MERIT L. GREAVES 28	2:13.62 BETHANNE LAMBERT 26	11:01.39 ELLEN FERGUSON 30	1:11.41 JUDITH LALLIER 33
1:10.48 BOWEN JOHNSON 26	2:14.58 LORETTA SOFFE 26	11:02.07 MARGEE CURRAN 32	1:11.59 SUSAN RICHMOND 31
1:10.65 PAMELA LINDROOS 27	2:15.34 SUDI S. MILLER 26	11:04.01 MARGUERITE MEYER 34	1:11.71 BETH SCHEIMANN 30
1:10.68 DEENA CROSSMORE 28	2:15.90 LINDA S. NEARY 28	11:05.00 SUZANNE HEIM 34	1:12.28 JULIE BOAZ 31
1:10.76 KIRA MCDONOUGH 26	2:16.05 LAURIE HUG 28	11:06.29 H.VAUGHN-EDMONDS 30	1:12.52 NANCY MITCHELL 31
1:11.05 LISA KUMER 28	2:16.50 KIRA MCDONOUGH 26	11:10.90 JOAN SMITH 32	1:12.58 CARLA DROPO 33
1:11.15 KATHY WAGGONER 26	2:16.92 LISA DIAI 25	11:15.43 ROBYNN MASTERS 33	1:12.76 HILARY MAIN 33
200 YD. BRST WOMEN 25-29	400 YD. I.M. WOMEN 25-29	11:17.77 DEBORAH ZIMIC 31	1:12.84 EVE WALTON 31
2:24.87 BETHANNE LAMBERT 93	4:28.40 SARA SHAND 91	1650 YD. FREE WOMEN 30-34	200 YD. BRST WOMEN 30-34
2:24.87 BETHANNE LAMBERT 26	4:34.63 D.GRANER-GALLAS 29	17:07.52 KAREN BURTON 93	2:29.75 KAREN MELICK 90
2:32.81 KARYN HEANEY 28	4:42.85 LISA DIAI 25	17:07.52 KAREN BURTON 30	2:29.88 JUNE FORD 31
2:33.58 PAMELA LINDROOS 27	4:44.54 LORETTA SOFFE 26	17:43.43 BETH KNIGHT 33	2:32.14 SUSAN RICHMOND 31
2:33.73 KIRA MCDONOUGH 26	4:46.18 MARTIE MC KINNEY 28	18:13.89 ELLEN FERGUSON 30	2:33.03 NANCY MITCHELL 31
2:34.19 KATHY WAGGONER 26	4:47.32 LAURIE HUG 28	18:17.22 MARGUERITE MEYER 34	2:33.88 BETH SCHEIMANN 30
2:34.55 DEENA CROSSMORE 28	4:48.59 LINDA S. NEARY 28	18:24.40 GAIL GRABOWSKY 30	2:34.20 ELLEN ATKINSON 30
2:34.82 LISA KUMER 28	4:50.45 SUSAN DUNCAN 27	18:42.73 KIM ELSBACH 30	2:35.33 KAREN BURTON 30
2:36.79 LISA CRISTO 25	4:51.11 JENNIFER CRANNY 25	18:54.16 DEBRA SPECK 31	2:35.41 JULIE BOAZ 31

TOP TEN

SHORT COURSE YARDS

2:36.03 DENISE FRECH 31	4:56.89 NANCI SIROIS 34	19:38.60 BETH HINES 36	2:43.12 CATHY COOLEY 35
2:37.64 HILARY MAIN 33	4:56.98 KIMBERLY ARATA 33	19:49.55 MARCIA BENJAMIN 36	2:44.10 WENDY RYAN 35
2:38.47 CARLA DROPO 33	5:00.01 ERIN BORDEN 31	19:53.20 SARAH EICHER 36	2:45.94 CATHY KOHN 39
50 YD. FLY WOMEN 30-34	*****	19:55.40 DEBORAH CAIN 36	2:46.44 KIM GOODWIN 35
25.62 ROSEMARIE SEAMAN 89	50 YD. FREE WOMEN 35-39	20:09.10 WANDA H. BROWN 35	2:47.49 LAURIE ROBINSON 36
26.87 LINDA TANKERSLEY 30	24.21 S.NEILSON-BELL 93	50 YD. BACK WOMEN 35-39	50 YD. FLY WOMEN 35-39
27.08 ANNA SCOTT 30	24.21 S.NEILSON-BELL 37	27.82 LAURA VAL 91	26.68 LAURA VAL 87
27.19 LIZ HOBBS 31	25.73 JENNY LUKER 36	29.82 PATTY LANDERS 36	27.41 BARB CROWDER 35
27.21 CINDY WATTS 31	25.98 PAM DRAFTS 36	30.16 CAROLE SHIGAKI 37	27.45 S.NEILSON-BELL 37
27.39 CHRIS BREEDY 33	26.02 LYNN SULLIVAN 35	30.38 JOAN PFINSGRAFF 39	27.82 MARIA VELIKONJA 35
27.42 BETH HARRELL 33	26.19 JANICE GILLIES 35	30.60 KAREN FARNSWORTH 37	28.13 JANICE GILLIES 35
27.63 GRACIE GODDARD 33	26.40 MARCIA BENJAMIN 36	31.10 ANNE SULLIVAN 37	28.16 JENNY LUKER 36
27.73 ELLEN ATKINSON 30	26.41 BONNIE LIST 35	31.17 LESLIE DEFOE 35	28.25 LYNN SULLIVAN 35
27.82 SHEILA MORTELL 31	26.47 GAIL WETTACH 35	31.18 SUZANNE CASSEDAY 36	28.31 MARY ANN STEVENS 39
27.85 BETH SCHEIMANN 30	26.58 JULIE PAQUE 35	31.35 KIM GOODWIN 35	28.61 ELAINE FINCHAM 37
100 YD. FLY WOMEN 30-34	26.61 MARILYN A S FINK 38	31.69 KATHERINE BRANCH 35	28.87 DEBBIE FLANSBURG 38
55.68 ROSEMARIE SEAMAN 89	100 YD. FREE WOMEN 35-39	31.72 MARILYN EARLY 35	28.94 DONNA NEARY 37
59.20 LINDA TANKERSLEY 30	52.24 SUSAN HALFACRE 88	100 YD. BACK WOMEN 35-39	100 YD. FLY WOMEN 35-39
59.51 JUNE FORD 31	52.84 S.NEILSON-BELL 37	1:01.68 LAURA VAL 91	56.90 SUSAN HALFACRE 88
1:00.12 CINDY WATTS 31	56.47 BARBARA CROWDER 35	1:03.48 PATTY LANDERS 36	1:00.92 MARIA VELIKONJA 35
1:00.12 JILL HERNANDEZ 32	56.75 LYNN SULLIVAN 35	1:04.98 KAREN FARNSWORTH 37	1:01.39 DEBBIE FLANSBURG 37
1:01.57 CHRIS BREEDY 33	56.91 MARCIA BENJAMIN 36	1:05.28 KATHERINE BRANCH 35	1:01.67 S.NEILSON-BELL 37
1:01.60 PAM LAZZAROTTO 31	56.98 MARIA VELIKONJA 35	1:05.32 CAROLE SHIGAKI 37	1:02.04 BARB CROWDER 35
1:01.62 MARIA VELIKONJA 34	57.22 JENNY LUKER 36	1:06.27 JENNY KEMP 37	1:03.01 SUSAN SKIFF 38
1:02.16 JUDY LALLIER 33	57.54 JANICE GILLIES 35	1:07.12 MARYANN STEVENS 39	1:03.35 LYNN SULLIVAN 35
1:02.45 SHEILA MORTELL 31	57.67 KARLENE WISE 39	1:07.97 LESLIE DEFOE 35	1:03.73 MARYANN STEVENS 39
1:02.70 NANCY MITCHELL 31	57.76 VERONICA HIBBEN 36	1:08.00 ANNE SULLIVAN 37	1:04.45 ELAINE FINCHAM 38
200 YD. FLY WOMEN 30-34	58.20 PAM DRAFTS 36	1:08.12 CATHY METZ 37	1:04.49 DONNA NEARY 37
2:07.94 JUNE FORD 93	200 YD. FREE WOMEN 35-39	1:08.16 MARILYN EARLY 35	1:04.85 M.CAMPION-ASMUTH 35
2:07.94 JUNE FORD 31	1:52.79 SUSAN HALFACRE 88	200 YD. BACK WOMEN 35-39	200 YD. FLY WOMEN 35-39
2:11.05 JILL HERNANDEZ 32	2:02.43 MARIA VELIKONJA 35	2:15.44 KAREN FARNSWORTH 92	2:10.80 LAURA VAL 87
2:11.78 KAREN BURTON 30	2:03.31 M.CAMPION-ASMUTH 35	2:15.84 KATHERINE BRANCH 35	2:13.87 DEBBIE FLANSBURG 37
2:14.02 NANCY MITCHELL 31	2:03.45 KATHERINE BRANCH 35	2:16.25 PATTY LANDERS 36	2:17.16 MARIA VELIKONJA 35
2:17.12 MARIA VELIKONJA 34	2:03.85 LYNN SULLIVAN 35	2:20.58 KAREN FARNSWORTH 37	2:19.81 MARYANN STEVENS 39
2:17.56 PAM LAZZAROTTO 31	2:04.16 BARBARA CROWDER 35	2:21.39 MARYANN STEVENS 39	2:20.98 SUSAN SKIFF 38
2:20.10 DIANE MUNTZER 30	2:06.55 MARILYN EARLY 35	2:21.86 JOAN PFINSGRAFF 39	2:22.19 KATHERINE BRANCH 35
2:20.29 SUZANNE HEIM 34	2:06.64 DEBORAH CAIN 36	2:22.93 ANNE SULLIVAN 37	2:24.53 LAURIE POTTER 35
2:21.12 DEBRA SPECK 31	2:07.04 VERONICA HIBBEN 36	2:25.16 CAROLE SHIGAKI 37	2:25.44 KRIS WINGENROTH 39
2:21.26 KIM ELSBACH 30	2:07.25 CATHY COOLEY 35	2:25.33 JENNY KEMP 37	2:25.68 LYNN SULLIVAN 35
100 YD. I.M. WOMEN 30-34	2:07.36 SUSAN SKIFF 38	2:26.71 MARILYN EARLY 35	2:28.99 ELAINE FINCHAM 38
58.78 ROSEMARIE SEAMAN 89	2:07.36 SARAH EICHER 36	2:26.91 MELISSA BEATY 35	2:29.37 LORRAINE SOMMERS 36
1:02.25 LYNN WITTSTOCK 30	500 YD. FREE WOMEN 35-39	50 YD. BRST WOMEN 35-39	100 YD. I.M. WOMEN 35-39
1:02.28 JUDITH LALLIER 33	5:01.04 SUSAN HALFACRE 88	30.85 LESLIE OSBORNE 89	1:00.22 SUSAN HALFACRE 88
1:02.70 ANNA SCOTT 30	5:26.59 KATHERINE BRANCH 35	32.78 KAREN MELICK 36	1:04.47 BARBARA CROWDER 35
1:03.11 SHEILA MORTELL 31	5:29.52 M.CAMPION-ASMUTH 35	33.61 WENDY RYAN 35	1:05.02 DONNA NEARY 37
1:03.16 SUSAN PORTER 30	5:34.05 MARIA VELIKONJA 35	33.82 JANICE GILLIES 35	1:05.70 CAROLE SHIGAKI 37
1:03.30 BETH SCHEIMANN 30	5:35.51 S.NEILSON-BELL 36	33.97 EILEEN WALL 35	1:05.76 JENNY LUKER 36
1:04.06 ELLEN ATKINSON 30	5:37.89 LAURIE SAMUELSON 37	34.22 PAM DRAFTS 36	1:06.30 CATHY COOLEY 35
1:04.63 EVE WALTON 31	5:38.16 ANDREA KARGE 37	34.42 JENNY LUKER 36	1:06.59 BONNIE LIST 35
1:04.81 CARLA DROPO 33	5:38.35 DIANA DOLAN-EVANS 35	34.43 CAROLE SHIGAKI 37	1:07.40 PAM DRAFTS 36
1:04.95 JILL BLACK 30	5:38.92 SUSAN SKIFF 38	34.83 CATHY COOLEY 35	1:07.58 JOAN PFINSGRAFF 39
200 YD. I.M. WOMEN 30-34	5:39.39 BRIDGET VACHE 37	34.84 MELINDA MANN 36	1:07.77 DEBORAH CAIN 36
2:09.99 SANDY NEILSON 87	5:39.66 MARCIA BENJAMIN 36	34.98 LAURIE ROBINSON 36	1:07.80 CATHY METZ 37
2:12.27 JILL HERNANDEZ 32	1000 YD. FREE WOMEN 35-39	100 YD. BRST WOMEN 35-39	200 YD. I.M. WOMEN 35-39
2:12.83 ZENA HERRMANN 33	10:39.87 SUSAN HALFACRE 88	1:07.58 LESLIE OSBORNE 89	2:13.88 S.NEILSON-BELL 92
2:13.64 JUDITH LALLIER 33	11:20.06 M.CAMPION-ASMUTH 35	1:11.86 KAREN MELICK 36	2:15.47 S.NEILSON-BELL 37
2:14.29 KAREN BURTON 30	11:33.46 LAURIE SAMUELSON 37	1:12.84 LESLIE WETZEL 38	2:18.41 DONNA NEARY 37
2:14.65 LYNN WITTSTOCK 30	11:36.69 KAREN FARNSWORTH 36	1:13.48 DONNA NEARY 37	2:19.44 B.MORSE-GILLHAM 36
2:18.40 SHEILA MORTELL 31	11:46.55 SARAH EICHER 36	1:13.53 EILEEN WALL 35	2:22.46 CATHY COOLEY 35
2:19.46 NANCY MITCHELL 31	11:48.12 KARLENE WISE 39	1:14.20 WENDY RYAN 35	2:24.99 KAREN FARNSWORTH 37
2:20.41 ERIN BORDEN 31	11:48.67 CATHERINE CHAY 37	1:14.28 CAROLE SHIGAKI 37	2:25.39 CAROLE SHIGAKI 37
2:21.39 DEBORAH ZIMIC 30	11:49.96 MARCIA BENJAMIN 36	1:14.88 LO KNAPP 38	2:26.25 MARYANN STEVENS 39
2:21.79 CAROL OLSON 30	11:50.73 ANDREA KARGE 37	1:15.60 CATHY COOLEY 35	2:27.15 PATTY LANDERS 36
400 YD. I.M. WOMEN 30-34	11:54.79 LORRAINE SOMMERS 36	1:15.62 PAM DRAFTS 36	2:27.52 DEBORAH CAIN 36
4:34.29 KAREN BURTON 93	12:00.63 DEBORAH CAIN 35	1:15.77 DEE HAYNIE 38	2:28.21 ANDREA KARGE 37
4:34.29 KAREN BURTON 30	1650 YD. FREE WOMEN 35-39	200 YD. BRST WOMEN 35-39	400 YD. I.M. WOMEN 35-39
4:38.02 JUNE FORD 31	17:15.23 SUSAN HALFACRE 88	2:30.53 KAREN MELICK 92	4:46.69 S.NEILSON-BELL 92
4:40.48 JILL HERNANDEZ 32	18:22.43 KATHERINE BRANCH 35	2:37.48 DONNA NEARY 37	5:01.11 KAREN FARNSWORTH 36
4:41.28 JUDITH LALLIER 33	19:11.20 DEE HAYNIE 38	2:37.95 EILEEN WALL 35	5:05.80 MARYANN STEVENS 39
4:43.33 ZENA HERRMANN 33	19:23.09 LINDA BUCHANAN 35	2:39.08 BRIDGET VACHE 37	5:08.06 KATHERINE BRANCH 35
4:48.59 AMY PLESS 30	19:33.08 CATHERINE CHAY 38	2:42.29 LO KNAPP 38	5:08.88 HUDDIE MURRAY 36
4:52.23 NANCY MITCHELL 31	19:34.86 K.CHEQUER-PFEIFFE 35	2:42.96 CAROLE SHIGAKI 37	5:12.29 DIANA DOLAN-EVANS 35

TOP TEN SHORT COURSE YARDS

5:13.54 TINA MADEJ	35	20:09.45 SHIRLEY LOFTIS	41	2:47.59 KRISSY MACCUDY	40	5:11.92 BARBARA G DUNBAR	44
5:14.26 MELISSA BEATY	35	20:13.48 DENISE EVERITT	40	2:49.22 STEPHANIE WALSH	43	5:19.81 SUSI CHANDLER	42
5:17.68 ELAINE FINCHAM	38	20:13.74 TERRY GAULT	42	2:49.36 SUSI CHANDLER	42	5:20.55 STEPHANIE WALSH	43
5:19.26 KIT ASHENFELTER	39	20:40.42 GAYLE BENTY	40	2:50.03 A.WRIGHT-BELKNAP	42	5:27.92 DENISE EVERITT	40
5:19.34 B.MORSE-GILLHAM	36	20:47.51 SHERRY KITTRELL	41	2:50.47 CAROLINE CAPPS	40	5:30.14 GAYLE BENTY	40
*****		21:04.01 DEBBIE MEYER	40	2:51.66 JANE HARPER	40	5:31.14 SHARON ODELL	40
50 YD. FREE WOMEN 40-44		21:15.55 GWEN DEELY	43	2:52.03 LINDA BUSCH	42	5:31.91 MISSY LE STRANGE	40
24.95 LAURA VAL	92	50 YD. BACK WOMEN 40-44		50 YD. FLY WOMEN 40-44		*****	
25.35 BONNIE ADAIR	40	27.91 LAURA VAL	92	26.92 LAURA VAL	93	50 YD. FREE WOMEN 45-49	
25.37 LAURA VAL	41	28.43 LAURA VAL	41	26.92 LAURA VAL	41	25.98 ARDETH MUELLER	88
26.15 C.STONESIFER	40	30.68 JOEL FELDMAN	41	28.34 BONNIE ADAIR	40	27.17 DIANA TODD	49
26.18 JOEL FELDMAN	41	31.04 BONNIE ADAIR	40	29.15 JOEL FELDMAN	41	27.32 F.WILLIAMSON	45
26.91 CAROLINE CAPPS	40	31.87 DEBORAH WALKER	41	29.56 C.STONESIFER	40	27.40 SHARON WISE	46
27.06 D.OGIER-POLLARD	40	31.94 JUDY K. STEFANICK	42	29.58 DEBBIE MEYER	40	27.47 JUDY REED	49
27.21 REBECCA BENSON	40	32.25 JAN PESAVENTO	41	29.91 BARBARA G DUNBAR	44	27.66 LUCY JOHNSON	45
27.33 DEBBIE MEYER	40	32.40 C.STONESIFER	40	30.02 JANE HARPER	40	27.90 CAROLYN BOAK	47
27.38 R.BRITTINGHAM	41	32.43 CATHY KOHN	40	30.23 JUDY LEE	43	28.11 ANN LYTTLE	45
27.89 BARBARA G DUNBAR	44	32.56 BONNIE JOHNSTON	41	30.35 TERRY GAULT	42	28.22 RUTH SHAPS	45
100 YD. FREE WOMEN 40-44		33.42 TRACY ARNDT	41	30.44 R.BRITTINGHAM	41	28.71 JEAN HENDERSON	46
54.48 LAURA VAL	92	100 YD. BACK WOMEN 40-44		100 YD. FLY WOMEN 40-44		28.74 SALLY DILLON	46
54.97 LAURA VAL	41	1:02.22 LAURA VAL	92	59.22 LAURA VAL	92	100 YD. FREE WOMEN 45-49	
55.28 BONNIE ADAIR	40	1:03.36 LAURA VAL	41	59.85 LAURA VAL	41	57.91 ARDETH MUELLER	87
57.75 C.STONESIFER	40	1:09.03 JUDY K. STEFANICK	42	1:02.46 BONNIE ADAIR	40	59.13 F.WILLIAMSON	45
57.99 D. OGIER-POLLARD	40	1:09.21 C.STONESIFER	40	1:05.22 BARBARA DUNBAR	44	59.31 DIANA TODD	49
59.34 CELESTE MILLER	43	1:09.78 DEBORAH WALKER	41	1:06.07 KRISSY MACCUDY	40	59.75 SHARON WISE	46
59.43 JOEL FELDMAN	41	1:09.96 JONELLE SCHMIDT	42	1:06.91 SUSI CHANDLER	42	1:01.09 JUDY REED	49
59.51 PAMELA POWERS	41	1:10.51 JOEL FELDMAN	41	1:07.04 STEPHANIE WALSH	43	1:01.19 LUCY JOHNSON	45
59.65 DOT MUNGER	41	1:10.74 BONNIE JOHNSTON	41	1:07.17 DENISE EVERITT	40	1:01.24 SALLY DILLON	46
59.99 BARBARA G DUNBAR	44	1:11.96 JAN TRUCHAN	40	1:07.37 JUDY LEE	43	1:01.68 CAROLYN BOAK	47
1:00.12 REBECCA BENSON	40	1:12.34 JANICE DOUGHERTY	40	1:08.12 TERRY GAULT	42	1:01.90 ANN LYTTLE	45
200 YD. FREE WOMEN 40-44		1:14.66 TRACY ARNDT	41	1:08.41 C.STONESIFER	40	1:03.83 COLLEEN MALMEN	49
2:04.00 BARBARA DUNBAR	90	200 YD. BACK WOMEN 40-44		200 YD. FLY WOMEN 40-44		1:03.89 LINDA MCHENRY	45
2:04.08 BONNIE ADAIR	40	2:23.47 JANET PESAVENTO	92	2:11.08 LAURA VAL	92	200 YD. FREE WOMEN 45-49	
2:05.63 D. OGIER-POLLARD	40	2:26.28 JONELLE SCHMIDT	42	2:13.35 LAURA VAL	41	2:05.71 ARDETH MUELLER	88
2:06.67 DOT MUNGER	41	2:28.22 CATHERINE KOHN	40	2:23.37 BARBARA G DUNBAR	44	2:11.69 CAROLYN BOAK	48
2:07.38 BARBARA G DUNBAR	44	2:28.91 JUDY K. STEFANICK	42	2:30.74 DENISE EVERITT	40	2:11.77 F.WILLIAMSON	45
2:08.45 CELESTE MILLER	43	2:31.27 MARIANNE BREMS	44	2:30.85 STEPHANIE WALSH	43	2:13.12 SHARON WISE	46
2:09.30 JONELLE SCHMIDT	42	2:32.88 BONNIE JOHNSTON	41	2:34.75 TERRY GAULT	42	2:14.55 ANN LYTTLE	45
2:10.47 PAMELA POWERS	41	2:33.96 C.STONESIFER	40	2:36.31 CATHY MANCINO	43	2:15.25 SALLY DILLON	46
2:14.87 BONNIE JOHNSTON	41	2:35.33 JANICE DOUGHERTY	40	2:38.63 JUDY LEE	43	2:16.51 LUCY JOHNSON	45
2:15.58 GWEN DEELY	43	2:37.03 DEBORAH W. WALKER	41	2:42.23 JUDY K. STEFANICK	42	2:16.98 DIANA TODD	49
2:15.78 SHARON ODELL	40	2:37.34 STEPHANIE WALSH	43	2:42.64 SHERYL MERCIER	40	2:20.54 JACKIE MARR	49
2:15.78 DEBORAH WALKER	40	2:40.15 SHERYL MERCIER	40	2:47.58 KAREN MITCHELL	40	2:21.24 JUDY REED	49
500 YD. FREE WOMEN 40-44		50 YD. BRST WOMEN 40-44		100 YD. I.M. WOMEN 40-44		2:21.93 KRISTINA KING	45
5:30.58 BARBARA DUNBAR	89	32.84 DEBORAH WALKER	93	1:03.82 BONNIE ADAIR	93	500 YD. FREE WOMEN 45-49	
5:33.24 BARBARA G DUNBAR	43	32.84 DEBORAH WALKER	41	1:03.82 BONNIE ADAIR	40	5:40.37 ARDETH MUELLER	88
5:35.23 D. OGIER-POLLARD	40	33.89 GAYLE BENTY	40	1:04.41 LAURA VAL	41	5:57.07 F.WILLIAMSON	45
5:38.09 DOT MUNGER	41	33.93 A.WRIGHT-BELKNAP	42	1:06.60 CATHERINE KOHN	40	6:02.04 SALLY DILLON	46
5:43.53 CELESTE MILLER	43	35.53 KRISSY MACCUDY	40	1:06.74 DEBORAH WALKER	41	6:04.60 SHARON WISE	46
5:54.56 DEBBIE MEYER	40	35.61 CATHY KOHN	40	1:07.15 KRISSY MACCUDY	40	6:09.15 KRISTINA KING	45
5:55.44 DENISE EVERITT	40	35.74 JANE HARPER	40	1:07.56 C.STONESIFER	40	6:13.69 ANN LYTTLE	45
5:56.94 PAMELA POWERS	41	36.33 CAROLINE CAPPS	40	1:07.81 JOEL FELDMAN	41	6:18.05 SUZANNA DILLS	48
5:57.77 TERRY GAULT	42	36.61 PAULA B. PORTER	42	1:07.93 JONELLE SCHMIDT	42	6:18.91 JACKIE MARR	49
5:59.40 MISSY LE STRANGE	40	36.62 C.STONESIFER	40	1:08.45 DEBBIE MEYER	40	6:19.72 LUCY JOHNSON	45
6:01.24 DEBORAH WALKER	40	37.01 BONNIE ADAIR	40	1:08.45 D.OGIER-POLLARD	40	6:20.17 JANE KATZ	49
1000 YD. FREE WOMEN 40-44		100 YD. BRST WOMEN 40-44		200 YD. I.M. WOMEN 40-44		6:21.24 ANN SVANSON	47
11:20.18 BARBARA DUNBAR	90	1:11.73 DOT MUNGER	92	2:20.57 BONNIE ADAIR	93	1000 YD. FREE WOMEN 45-49	
11:21.05 BARBARA G DUNBAR	43	1:11.89 DEBORAH WALKER	41	2:20.57 BONNIE ADAIR	40	11:54.44 ARDETH MUELLER	91
11:28.86 DOT MUNGER	41	1:12.62 GAYLE BENTY	40	2:23.61 D. OGIER-POLLARD	40	12:24.08 SALLY DILLON	46
12:03.70 CELESTE MILLER	43	1:14.32 CATHERINE KOHN	40	2:24.86 CATHERINE KOHN	40	12:26.74 F.WILLIAMSON	45
12:07.50 D.OGIER-POLLARD	40	1:16.29 KRISSY MACCUDY	40	2:25.74 DEBORAH WALKER	41	12:42.51 KRISTINA KING	45
12:12.49 SHIRLEY LOFTUS	41	1:16.30 CAROLINE CAPPS	40	2:27.81 BARBARA G DUNBAR	44	12:54.69 ANN LYTTLE	45
12:21.71 PAMELA POWERS	41	1:16.45 DOT MUNGER	41	2:29.53 CELESTE MILLER	43	12:58.26 ANN SVANSON	47
12:24.32 SHARON ODELL	40	1:16.90 JAN TRUCHAN	40	2:29.83 KRISSY MACCUDY	40	13:07.40 JACKIE MARR	49
12:26.77 GAYLE BENTY	40	1:17.50 A.WRIGHT-BELKNAP	42	2:29.87 DEBBIE MEYER	40	13:33.49 CHRISTINE ZIMMET	45
12:27.12 GWEN DEELY	43	1:18.06 C.STONESIFER	40	2:30.90 SUSI CHANDLER	42	13:40.07 WINIFRED PRALL	45
12:32.67 TERRY SUE GAULT	42	1:18.84 BONNIE ADAIR	40	2:32.54 JONELLE SCHMIDT	42	13:44.14 JUDY GILLIES	45
1650 YD. FREE WOMEN 40-44		200 YD. BRST WOMEN 40-44		400 YD. I.M. WOMEN 40-44		13:57.86 MARGE BURLEY	47
18:58.23 BARBARA DUNBAR	89	2:37.37 GAYLE BENTY	93	5:02.59 CATHERINE KOHN	93	1650 YD. FREE WOMEN 45-49	
19:00.48 BARBARA DUNBAR	44	2:37.37 GAYLE BENTY	40	5:02.59 CATHERINE KOHN	40	20:12.73 ARDETH MUELLER	86
19:14.52 D. OGIER-POLLARD	40	2:39.92 DEBORAH WALKER	41	5:06.74 BONNIE ADAIR	40	20:36.92 SALLY DILLON	46
19:58.73 CELESTE MILLER	43	2:45.43 DOT MUNGER	41	5:09.87 D.OGIER-POLLARD	40	20:51.87 F.WILLIAMSON	45

TOP TEN SHORT COURSE YARDS

21:15.96 KRISTINA KING 45	2:57.41 MARGE BURLEY 47	5:45.52 RUTH SHAPS 45	22:18.75 BARBARA FRID 50
22:09.80 ANN SVANSON 47	2:59.05 SALLY DILLON 46	5:46.36 GINGER PIERSON 47	22:29.94 SARAH L BROUGHER 51
22:44.75 PAT MALEY 49	3:02.10 MARILYN LUMPKIN 49	5:48.72 MARGE BURLEY 47	22:57.94 CAROL JEWELL 50
22:48.45 B.EDELMAIER 46	3:03.95 LYNN CARTEE 45	5:49.15 SUZANNA DILLS 48	23:40.80 SUSAN GARFIN 50
23:22.00 VICKI BUCCINO 46	3:05.63 SUSAN LEVICKAS 45	5:54.38 JACKIE MARR 49	24:03.08 JAYNE M. LAMBKE 53
23:34.18 RUTH PETERSON 46	3:05.79 CAROLYN KENT 47	5:58.66 JEAN WOOD 45	24:20.64 SUSAN MUNN 54
23:36.72 MARY POHLMANN 48	3:08.65 PAMELA HIMMSTREET 49	5:59.64 LUCY JOHNSON 45	24:25.03 SUSAN LIVINGSTON 54
23:54.21 WINIFRED PRALL 45	3:10.19 JEAN WOOD 45	6:12.08 MARILYN LUMPKIN 49	25:06.57 RUTH WINN 50
50 YD. BACK WOMEN 45-49	50 YD. FLY WOMEN 45-49	*****	25:20.33 NANCY LOWDEN 51
32.57 BETTY BENNETT 88	28.26 ARDETH MUELLER 88	50 YD. FREE WOMEN 50-54	50 YD. BACK WOMEN 50-54
32.84 MIMI FRANK 45	29.26 DIANA TODD 49	27.29 NANCY RIDOUT 92	32.72 BETSY JORDAN 90
32.87 RUTH SHAPS 45	29.39 SHARON WISE 46	27.75 NANCY RIDOUT 50	33.18 BETTY BENNETT 50
34.11 SHERRY PUTHOFF 45	30.22 JUDY REED 49	28.48 A.JANE NICHOLS 51	35.47 BARBARA FRID 51
34.19 JANET BURDICK 45	30.30 RUTH SHAPS 45	29.27 MARCY BULLOCK 50	35.52 SARAH BROUGHER 51
34.84 JUDY REED 49	30.33 LUCY JOHNSON 45	29.76 ARLENE PROEBSTING 50	36.66 NANCY RIDOUT 50
34.89 JEANNIE MITCHELL 46	31.23 MARGE BURLEY 47	30.14 NANCY J BROOKS 50	37.05 ANN DENSMORE 51
35.46 CAROL CHIDESTER 48	31.72 SANDI ROUSSEAU 45	30.54 JAYNE LAMBKE 53	37.14 CAROL LAIRD 50
35.47 DIANA TODD 49	31.74 SHERRY PUTHOFF 45	31.20 BARBARA FRID 50	37.75 NANCY KIRKENDALL 50
35.55 GINGER PIERSON 47	32.68 B.EDELMAIER 46	31.54 NANCY KIRKENDALL 50	37.97 BARBARA HOELLEN 50
35.65 LINDA GILCHRIST 46	32.96 F.WILLIAMSON 45	31.73 ROS BIRD 50	38.06 SUSAN LIVINGSTON 54
100 YD. BACK WOMEN 45-49	100 YD. FLY WOMEN 45-49	32.19 JOANN LEILICH 54	38.32 PINKY WALKER 50
1:11.07 BETTY BENNETT 88	1:03.08 ARDETH MUELLER 88	100 YD. FREE WOMEN 50-54	100 YD. BACK WOMEN 50-54
1:12.26 JANET BURDICK 45	1:06.27 DIANA TODD 49	59.05 ARDETH MUELLER 93	1:11.96 BETSY JORDAN 90
1:14.30 MIMI FRANK 45	1:06.73 SHARON WISE 46	59.05 ARDETH MUELLER 51	1:13.02 BETTY BENNETT 50
1:14.57 JEANNIE MITCHELL 46	1:08.19 LUCY JOHNSON 45	1:02.69 A.JANE NICHOLS 51	1:16.01 SARAH BROUGHER 51
1:14.83 LUCY JOHNSON 45	1:10.77 RUTH SHAPS 45	1:03.15 NANCY RIDOUT 51	1:16.02 ARDETH MUELLER 51
1:15.17 SHERRY PUTHOFF 45	1:11.80 SHERRY PUTHOFF 45	1:03.30 MARCY BULLOCK 50	1:16.98 BARBARA FRID 51
1:15.77 CHRISTINE ZIMMET 45	1:12.87 CAROLYN KENT 47	1:05.71 JAYNE LAMBKE 53	1:20.44 CAROL LAIRD 50
1:16.95 BETTY BENNETT 49	1:14.43 B.EDELMAIER 46	1:07.86 ARLENE PROEBSTING 50	1:21.32 SUSAN LIVINGSTON 54
1:16.99 ANN SVANSON 47	1:14.46 CHRISTINE ZIMMET 45	1:09.40 SUSAN GARFIN 50	1:21.47 NANCY KIRKENDALL 50
1:17.16 GINGER L PIERSON 46	1:14.50 SANDI ROUSSEAU 45	1:09.77 BARBARA FRID 50	1:21.73 BETSY DURRANT 51
1:17.37 RUTH SHAPS 45	1:14.97 JACKIE MARR 49	1:09.83 NANCY KIRKENDALL 50	1:24.30 JUDY DECKER 50
200 YD. BACK WOMEN 45-49	200 YD. FLY WOMEN 45-49	1:10.38 NANCY MURPHY 50	1:25.78 NANCY MURPHY 50
2:30.46 CAROL CHIDESTER 91	2:20.14 ARDETH MUELLER 88	200 YD. FREE WOMEN 50-54	200 YD. BACK WOMEN 50-54
2:34.88 CAROL CHIDESTER 48	2:40.26 SHARON WISE 46	2:12.11 ARDETH MUELLER 92	2:38.09 BETSY JORDAN 91
2:39.79 MIMI FRANK 46	2:42.14 F.WILLIAMSON 45	2:12.65 ARDETH MUELLER 51	2:38.73 BETTY BENNETT 50
2:40.32 SHERRY PUTHOFF 45	2:46.01 CAROLYN KENT 47	2:18.25 NANCY RIDOUT 51	2:39.02 ARDETH MUELLER 51
2:40.95 CHRISTINE ZIMMET 45	2:50.65 JACKIE MARR 49	2:20.90 JACKIE MARR 50	2:41.81 SARAH L BROUGHER 51
2:42.54 JANET BURDICK 45	2:51.40 GINGER PIERSON 47	2:22.70 A.JANE NICHOLS 51	2:53.55 SUSAN LIVINGSTON 54
2:43.49 BETTY BENNETT 49	2:51.66 CHRISTINE ZIMMET 45	2:23.78 SARAH L BROUGHER 51	2:54.68 JUDY DECKER 50
2:43.94 GINGER PIERSON 46	2:51.78 B.EDELMAIER 46	2:24.33 MARCY BULLOCK 50	2:55.46 BETSY DURRANT 51
2:44.74 ANN SVANSON 47	2:53.50 KRISTINA KING 45	2:27.97 JAYNE LAMBKE 53	2:57.03 NANCY KIRKENDALL 50
2:45.59 JEANNIE MITCHELL 46	2:55.60 JEAN WOOD 45	2:31.43 BARBARA FRID 50	2:58.28 BARBARA FRID 50
2:46.66 JACKIE MARR 49	2:57.60 BARBARA LARSEN 45	2:33.94 MARY ANDERSON 50	3:02.00 ELAINE BROMWICH 50
50 YD. BRST WOMEN 45-49	100 YD. I.M. WOMEN 45-49	2:34.46 NANCY KIRKENDALL 50	3:02.83 SUZY CARLSON 51
34.46 DIANA TODD 89	1:07.38 DIANA TODD 90	500 YD. FREE WOMEN 50-54	50 YD. BRST WOMEN 50-54
34.68 CAROLYN BOAK 47	1:08.69 CAROLYN BOAK 48	5:53.05 ARDETH MUELLER 92	35.55 JAYNE BRUNER 85
35.74 DIANA TODD 49	1:09.22 DIANA TODD 49	6:17.42 JACKIE MARR 50	35.99 JOANN LEILICH 54
35.97 GINGER PIERSON 47	1:11.20 SHARON WISE 46	6:25.55 MARCY BULLOCK 50	36.86 ELAINE BROMWICH 50
36.45 ELAINE BROMWICH 49	1:12.44 RUTH SHAPS 45	6:26.42 NANCY RIDOUT 51	37.60 NANCY RIDOUT 50
37.41 MARGE BURLEY 47	1:12.55 GINGER PIERSON 47	6:27.65 SARAH L BROUGHER 51	37.92 ROS BIRD 50
37.50 MARILYN LUMPKIN 49	1:13.24 SHERRY PUTHOFF 45	6:34.37 CAROL JEWELL 50	37.98 NANCY BROOKS 50
37.78 LYNN CARTEE 45	1:13.42 LYNN CARTEE 45	6:36.31 BARBARA FRID 50	40.04 MARGIT JEBE 54
38.00 BEA HACKETT 48	1:13.52 MIMI FRANK 46	6:36.88 A. JANE NICHOLS 51	40.23 BETSY DURRANT 51
38.13 JACKIE MURPHY 49	1:14.16 ANN LYTTLE 45	6:45.06 JAYNE LAMBKE 53	40.33 BARBARA FRID 50
39.12 ANN LYTTLE 45	1:14.24 JANET BURDICK 45	6:54.52 NANCY KIRKENDALL 50	40.98 JUDY DECKER 50
100 YD. BRST WOMEN 45-49	200 YD. I.M. WOMEN 45-49	6:57.08 BETSY DURRANT 51	41.30 CAROLYN BEHSE 50
1:14.11 GINGER PIERSON 91	2:24.53 ARDETH MUELLER 88	1000 YD. FREE WOMEN 50-54	100 YD. BRST WOMEN 50-54
1:15.88 CAROLYN BOAK 47	2:33.02 CAROLYN BOAK 48	12:04.75 ARDETH MUELLER 92	1:17.72 JOANN LEILICH 89
1:17.25 GINGER PIERSON 47	2:37.97 LUCY JOHNSON 45	12:11.64 ARDETH MUELLER 51	1:18.11 ELAINE BROMWICH 50
1:20.17 ELAINE BROMWICH 49	2:38.36 RUTH SHAPS 45	12:57.95 NANCY RIDOUT 51	1:20.77 JOANN LEILICH 54
1:20.37 SALLY DILLON 46	2:41.28 SHERRY PUTHOFF 45	13:13.26 BARBARA FRID 51	1:22.60 ARDETH MUELLER 51
1:22.04 MARILYN LUMPKIN 49	2:43.27 GINGER PIERSON 47	13:18.66 SARAH L BROUGHER 51	1:23.17 NANCY BROOKS 50
1:23.29 LYNN CARTEE 45	2:44.13 JACKIE MARR 49	14:03.15 CAROL JEWELL 50	1:23.92 BARBARA FRID 51
1:23.51 MARGE BURLEY 47	2:44.17 LYNN CARTEE 45	14:05.30 JUDY DECKER 50	1:24.17 CAROL LAIRD 50
1:25.46 JACKIE MURPHY 49	2:45.75 JANET BURDICK 45	14:07.55 MARY ANDERSON 50	1:26.66 MARGIT JEBE 54
1:26.01 BEA HACKETT 48	2:47.41 MARGE BURLEY 47	14:14.46 NANCY KIRKENDALL 50	1:27.12 BETSY DURRANT 51
1:26.51 SUSAN LEVICKAS 45	2:48.18 F.WILLIAMSON 45	14:16.07 BETSY DURRANT 51	1:27.93 CAROLYN BEHSE 50
200 YD. BRST WOMEN 45-49	400 YD. I.M. WOMEN 45-49	15:10.67 RUTH WINN 50	1:29.01 JUDY DECKER 50
2:44.46 CAROLYN BOAK 93	5:10.24 ARDETH MUELLER 87	1650 YD. FREE WOMEN 50-54	200 YD. BRST WOMEN 50-54
2:44.46 CAROLYN BOAK 47	5:27.58 CAROLYN BOAK 47	20:08.79 ARDETH MUELLER 92	2:50.93 JOANN LEILICH 90
2:48.91 GINGER PIERSON 46	5:43.52 CAROLYN KENT 47	21:51.86 MARCY BULLOCK 50	2:56.37 ELAINE BROMWICH 50

TOP TEN SHORT COURSE YARDS

2:58.17	JOANN LEILICH	54	5:39.92	JACKIE MARR	50	22:53.85	RONNIE KAMPHAUSEN	59	3:07.40	ANNE MCGUIRE	58
3:05.16	CAROLYN BEHSE	50	5:48.43	NANCY RIDOUT	51	22:54.14	BETSY T JORDAN	55	3:15.68	DIANE STOWELL	58
3:05.54	NANCY BROOKS	50	5:51.48	BETTY BENNETT	50	23:52.11	NANCY BROWN	57	3:17.37	JOHNNIE DETRICK	57
3:06.46	CAROL LAIRD	50	6:00.68	ELAINE BROMWICH	50	24:31.96	BARBARA JORDAN	55	3:18.71	BETSY T JORDAN	56
3:11.82	MARGIT JEBE	54	6:14.50	SUSAN LIVINGSTON	54	25:03.56	ANNE MCGUIRE	58	3:20.65	CAROL REINKE	56
3:15.10	ELIZABETH JOHNSON	53	6:22.09	JUDY DECKER	50	25:41.35	JUDY L. PARRETT	55	3:21.67	J.G. PIPER	56
3:15.28	FRANCESCA DRUM	51	6:47.56	SUSAN MUNN	54	25:55.81	BARBARA ZAREMSKI	55	3:23.70	SALLY NEWELL	55
3:15.96	BETSY DURRANT	51	6:57.47	MARYLOU SCHULZ	53	25:59.04	TESSIE BRANSCOMB	57	3:25.37	DONNA RYMAN	56
3:21.26	MARGARET VanEVERY	52	7:02.12	MARY PUDIM	53	26:22.71	DOT WERRY	56	3:26.50	YOLANDE HOSS	59
50 YD. FLY WOMEN 50-54			*****			26:35.48	DONNA MONROE	59	3:27.20	CLAUDIA MULTER	56
28.91	ARDETH MUELLER	93	50 YD. FREE WOMEN 55-59			50 YD. BACK WOMEN 55-59			50 YD. FLY WOMEN 55-59		
28.91	ARDETH MUELLER	51	28.03	JAYNE BRUNER	90	32.97	BETSY JORDAN	93	31.76	GAIL ROPER	85
30.28	SARAH BROUGHER	51	30.48	JOHNNIE DETRICK	57	32.97	BETSY JORDAN	56	33.67	BETSY T JORDAN	56
30.86	A.JANE NICHOLS	51	30.55	RONNIE KAMPHAUSEN	58	36.68	BARBARA JORDAN	55	36.05	RONNIE KAMPHAUSEN	59
31.34	NANCY RIDOUT	50	31.29	BETSY T JORDAN	56	37.43	NANCY BROWN	56	36.74	NANCY BROWN	56
32.38	CAROL JEWELL	50	31.40	DIANE STOWELL	58	38.15	RONNIE KAMPHAUSEN	58	37.15	BARBARA CALLISON	59
32.55	BARBARA FRID	51	31.93	NANCY BROWN	57	38.55	ANN KAY	58	37.41	BEVERLY MYERS	57
32.77	BARBARA HOELLEN	50	32.17	CLARICE ROSSI	55	38.64	BEVERLY MYERS	57	37.60	ANN KAY	58
33.64	MARCY BULLOCK	50	32.26	JEANNE LITTLE	56	39.37	DOROTHY WHITEHEAD	57	38.06	JANE OBERG	55
33.98	JAYNE LAMBKE	53	32.60	ANN KAY	58	40.45	DORIS KLITZKE	57	38.55	DOTTIE BANTA	56
35.49	JANE KATZ	50	32.64	BEVERLY MYERS	57	40.52	ANN CHAMP	57	38.71	JEANNE LITTLE	56
100 YD. FLY WOMEN 50-54			32.96	BARBARA ZAREMSKI	55	40.96	SUZANNE ROBBINS	59	39.09	ANNE MCGUIRE	58
1:05.69	ARDETH MUELLER	92	100 YD. FREE WOMEN 55-59			100 YD. BACK WOMEN 55-59			100 YD. FLY WOMEN 55-59		
1:06.97	ARDETH MUELLER	51	1:02.38	JAYNE BRUNER	90	1:11.11	BETSY JORDAN	92	1:15.18	JAYNE BRUNER	91
1:10.53	SARAH L BROUGHER	51	1:08.56	NANCY BROWN	57	1:14.04	BETSY JORDAN	56	1:20.70	BETSY T JORDAN	55
1:11.50	A. JANE NICHOLS	51	1:09.55	RONNIE KAMPHAUSEN	59	1:20.34	BARBARA JORDAN	55	1:24.52	ANNE MCGUIRE	58
1:12.11	NANCY RIDOUT	51	1:10.08	BETSY T JORDAN	55	1:21.63	NANCY BROWN	57	1:25.42	RONNIE KAMPHAUSEN	59
1:17.94	CAROL JEWELL	50	1:10.28	JOHNNIE DETRICK	57	1:21.73	RONNIE KAMPHAUSEN	58	1:30.34	NANCY BROWN	56
1:17.99	BARBARA HOELLEN	50	1:10.77	ANN KAY	58	1:22.95	BEVERLY MYERS	57	1:33.33	JEANNE LITTLE	56
1:20.74	JAYNE LAMBKE	53	1:11.48	DIANE STOWELL	58	1:24.05	ANN KAY	58	1:33.55	JANE OBERG	55
1:22.92	ELAINE BROMWICH	50	1:13.63	MARIAN COAKLEY	55	1:26.12	ANN CHAMP	57	1:35.11	DOT WERRY	56
1:23.94	SUSAN LIVINGSTON	54	1:14.01	BEVERLY MYERS	57	1:27.03	DOROTHY WHITEHEAD	57	1:36.31	YOLANDE HOSS	59
1:30.38	MARGIT JEBE	54	1:14.14	JEANNE LITTLE	56	1:31.31	JUDY PARRETT	55	1:37.35	BARBARA ZAREMSKI	55
200 YD. FLY WOMEN 50-54			1:15.63	BARBARA ZAREMSKI	55	1:31.53	BARBARA ZAREMSKI	55	1:40.37	DONNA EDELBAUM	59
2:25.73	ARDETH MUELLER	92	200 YD. FREE WOMEN 55-59			200 YD. BACK WOMEN 55-59			200 YD. FLY WOMEN 55-59		
2:29.70	ARDETH MUELLER	51	2:22.66	LAVELLE STOINOFF	88	2:34.80	BETSY JORDAN	92	2:51.18	GAIL ROPER	86
2:48.62	JACKIE MARR	50	2:30.43	RONNIE KAMPHAUSEN	59	2:41.60	BETSY JORDAN	56	3:05.00	ANNE MCGUIRE	58
2:59.71	CAROL JEWELL	50	2:31.30	BETSY T JORDAN	56	2:52.09	BARBARA JORDAN	55	3:06.29	BETSY T JORDAN	55
3:04.73	BARBARA HOELLEN	50	2:39.34	NANCY BROWN	57	2:59.96	RONNIE KAMPHAUSEN	59	3:12.93	RONNIE KAMPHAUSEN	58
3:11.10	SUSAN LIVINGSTON	54	2:40.02	BARBARA JORDAN	55	3:01.32	BEVERLY MYERS	57	3:32.52	JANE OBERG	55
3:13.24	ELAINE BROMWICH	50	2:40.49	ANN KAY	59	3:01.55	NANCY BROWN	57	3:34.21	DOT WERRY	56
3:26.48	SUSAN ANSON	52	2:45.22	ANNE MCGUIRE	58	3:05.04	ANN CHAMP	57	3:35.08	BARBARA ZAREMSKI	55
3:33.56	SARA SNOEK	54	2:46.50	BARBARA ZAREMSKI	55	3:12.42	JUDY PARRETT	55	3:44.62	DONNA EDELBAUM	59
3:42.12	INGRID STINE	53	2:46.68	JOHNNIE DETRICK	57	3:16.58	DOROTHY WHITEHEAD	57	3:47.48	JUDY PARRETT	55
3:55.79	JEANNINE OLSON	53	2:47.59	TESSIE BRANSCOMB	57	3:18.43	BARBARA ZAREMSKI	55	3:50.55	DONNA MONROE	59
100 YD. I.M. WOMEN 50-54			2:49.41	JUDY PARRETT	55	3:18.90	PATRICIA TULLMAN	56	3:55.49	JOHNNIE DETRICK	57
1:09.66	ARDETH MUELLER	93	500 YD. FREE WOMEN 55-59			50 YD. BRST WOMEN 55-59			100 YD. I.M. WOMEN 55-59		
1:09.66	ARDETH MUELLER	51	6:09.83	LAVELLE STOINOFF	88	35.16	JAYNE BRUNER	91	1:12.56	JAYNE BRUNER	92
1:12.44	BETTY BENNETT	50	6:38.64	RONNIE KAMPHAUSEN	58	38.84	ANNE MCGUIRE	58	1:17.00	BETSY JORDAN	56
1:13.42	A. JANE NICHOLS	51	6:42.52	BETSY T JORDAN	55	39.45	JOHNNIE DETRICK	57	1:21.32	RONNIE KAMPHAUSEN	58
1:13.75	NANCY RIDOUT	50	6:59.73	DIANE STOWELL	58	40.27	BEVERLY MYERS	57	1:21.70	BEVERLY MYERS	57
1:13.77	JACKIE MARR	50	7:04.00	BARBARA JORDAN	55	41.64	CAROL REINKE	56	1:22.51	DIANE STOWELL	58
1:15.67	BARBARA FRID	51	7:10.78	NANCY BROWN	57	41.68	SALLY NEWELL	55	1:24.00	JOHNNIE DETRICK	57
1:16.03	SARAH BROUGHER	51	7:15.60	JEANNE LITTLE	56	41.71	BETSY JORDAN	56	1:24.48	ANN KAY	59
1:17.82	ELAINE BROMWICH	50	7:21.71	JUDY PARRETT	55	41.89	DIANE STOWELL	58	1:25.31	ANNE MCGUIRE	58
1:19.18	JOANN LEILICH	54	7:26.86	ANNE MCGUIRE	58	42.06	DONNA RYMAN	56	1:25.53	NANCY BROWN	56
1:19.51	CAROL LAIRD	50	7:27.23	TESSIE BRANSCOMB	57	42.26	YOLANDE HOSS	59	1:27.20	BARBARA CALLISON	59
200 YD. I.M. WOMEN 50-54			7:28.76	BARBARA ZAREMSKI	55	42.33	J.G. PIPER	55	1:27.31	BARBARA ZAREMSKI	55
2:32.89	ARDETH MUELLER	92	1000 YD. FREE WOMEN 55-59			100 YD. BRST WOMEN 55-59			200 YD. I.M. WOMEN 55-59		
2:38.12	ARDETH MUELLER	51	12:45.02	LAVELLE STOINOFF	88	1:18.52	JAYNE BRUNER	91	2:44.30	BETSY JORDAN	92
2:39.23	JACKIE MARR	50	13:42.66	RONNIE KAMPHAUSEN	59	1:26.73	ANNE MCGUIRE	58	2:50.40	BETSY JORDAN	56
2:40.23	BETTY BENNETT	50	13:49.67	BETSY T JORDAN	56	1:27.32	BEVERLY MYERS	57	2:57.86	NANCY BROWN	56
2:43.10	SARAH BROUGHER	51	14:14.50	BARBARA JORDAN	55	1:30.13	JOHNNIE DETRICK	57	2:59.13	BEVERLY MYERS	57
2:44.42	NANCY RIDOUT	51	15:15.79	JUDY PARRETT	55	1:30.95	CAROL REINKE	56	2:59.92	RONNIE KAMPHAUSEN	58
2:56.62	JOANN LEILICH	54	15:44.94	JOHNNIE DETRICK	57	1:31.61	SALLY NEWELL	55	3:03.86	ANNE MCGUIRE	58
2:58.01	SUSAN LIVINGSTON	54	15:54.64	CLARINE ANDERSON	57	1:31.68	DIANE STOWELL	58	3:05.99	DIANE STOWELL	58
2:59.42	CAROL LAIRD	50	15:56.99	DOT WERRY	56	1:31.93	YOLANDE HOSS	59	3:09.23	DORIS KLITZKE	57
2:59.50	ELAINE BROMWICH	50	15:59.78	MARGIE HEINEMAN	55	1:33.04	J.G. PIPER	56	3:10.91	BARBARA ZAREMSKI	55
3:02.41	JUDY DECKER	50	16:04.44	TERRY MORSE	58	1:33.10	BETSY T JORDAN	55	3:11.56	JANE OBERG	55
400 YD. I.M. WOMEN 50-54			16:08.70	DONNA MONROE	59	1:34.53	DONNA RYMAN	56	3:12.30	JOHNNIE DETRICK	57
5:22.42	ARDETH MUELLER	92	1650 YD. FREE WOMEN 55-59			200 YD. BRST WOMEN 55-59			400 YD. I.M. WOMEN 55-59		
5:24.37	ARDETH MUELLER	51	21:22.63	LAVELLE STOINOFF	89	3:00.46	JAYNE BRUNER	91	5:54.24	NANCY BROWN	91

TOP TEN SHORT COURSE YARDS

5:59.42 BETSY JORDAN 56	22:13.13 LAVELLE STOINOFF 93	3:11.24 ANN PISCIOTTA 91	6:14.72 CLARA WALKER 91
6:14.65 NANCY BROWN 57	22:13.13 LAVELLE STOINOFF 60	3:14.17 ANN PISCIOTTA 62	6:41.56 ANN PISCIOTTA 62
6:16.08 RONNIE KAMPHAUSEN 58	25:03.23 MARGARET TIMMINS 63	3:16.00 LAVELLE STOINOFF 60	6:53.99 BARBARA CALLISON 60
6:22.50 ANNE MCGUIRE 58	26:05.42 ANN PISCIOTTA 62	3:16.23 LILLY KRON 61	6:58.57 NANCY MAC BETH 63
6:41.33 BARBARA ZAREMSKI 55	26:29.58 MALCHIA OLSHAN 62	3:25.54 CAROL FERGUSON 61	7:00.53 LILLY KRON 61
6:47.16 JANE OBERG 55	27:36.57 ELLEN VOSE 63	3:26.76 SYLVIA EISELE 63	7:05.51 SYLVIA EISELE 63
6:58.49 DOT WERRY 56	28:38.08 RUTH AARON 64	3:27.37 CAROL TAYLOR 63	7:18.79 MALCHIA OLSHAN 62
6:59.59 JOHNNIE DETRICH 57	29:05.10 MARTY BARRY 60	3:29.73 BARBARA CALLISON 60	7:18.89 JOAN ALEXANDER 61
7:17.85 JOY ROSS 59	29:09.64 ANN DALLAM 62	3:37.24 JOYCE BAHLER 63	7:27.91 NANCY N. DURSTEIN 62
7:23.75 DONNA EDELBAUM 59	29:41.06 BETTY MC MILLAN 64	3:37.43 CINDY BAXTER 60	7:50.05 MARYJANE MULLINS 62
*****	30:05.31 DOROTHY SCRAK 62	3:37.53 JOAN ALEXANDER 61	8:03.56 JOAN MCINTYRE 64
*****	*****	*****	*****
50 YD. FREE WOMEN 60-64	50 YD. BACK WOMEN 60-64	50 YD. FLY WOMEN 60-64	50 YD. FREE WOMEN 65-69
30.67 DOROTHY DONNELLY 82	35.27 CLARA WALKER 91	34.94 BETTY BREY 92	31.01 CLARA WALKER 92
30.71 MARGARET TIMMINS 63	37.22 ROXANNE MOTTER 61	34.63 ROXANNE MOTTER 61	31.04 CLARA WALKER 66
31.48 DIANE REED 62	38.89 LAVELLE STOINOFF 60	35.53 BETTY BREY 60	34.12 PETEY MH. SMITH 68
31.52 ROXANNE MOTTER 61	39.80 MARGARET TIMMINS 63	36.52 GAIL ROPER 63	34.45 BERNA BENNETT 65
32.02 LAVELLE STOINOFF 60	41.23 JUDY CHADIMA 62	37.14 BARBARA CALLISON 60	34.65 DOROTHY LA CHASSE 68
32.10 GAIL ROPER 63	42.25 ARDIS BOURLAND 60	40.81 EDIE GRUENDER 64	34.69 FLORENCE E. CARR 67
33.19 BETTY BREY 60	43.02 NANCY MAC BETH 63	41.39 NANCY MAC BETH 63	34.99 DELLA SEHORN 65
33.32 BARBARA JOHNSON 60	43.22 MARIA YUNGEL 60	41.62 HARRIET FORKEY 60	36.11 JEANNE MERRYMAN 69
34.21 BARBARA CALLISON 60	43.28 DIANE REED 61	41.79 ANN PISCIOTTA 62	36.12 MARGERY MEYER 69
34.66 HARRIET FORKEY 60	43.59 SYLVIA EISELE 63	42.80 CAROL TAYLOR 64	36.25 SUZANNE GRAHAM 66
34.72 KATHIE THEIS 60	43.63 CINDY BAXTER 60	100 YD. FLY WOMEN 60-64	36.59 JUNE KRAUSER 65
100 YD. FREE WOMEN 60-64	100 YD. BACK WOMEN 60-64	100 YD. FLY WOMEN 60-64	100 YD. FREE WOMEN 65-69
1:08.08 LAVELLE STOINOFF 93	1:17.94 CLARA WALKER 91	1:23.43 JEANNETTE EPPLEY 80	1:09.04 CLARA WALKER 92
1:08.08 LAVELLE STOINOFF 60	1:21.32 ROXANNE MOTTER 61	1:27.55 ROXANNE MOTTER 61	1:09.79 CLARA WALKER 66
1:09.37 ROXANNE MOTTER 61	1:21.86 LAVELLE STOINOFF 60	1:30.93 BARBARA CALLISON 60	1:17.34 FLORENCE E. CARR 67
1:10.23 MARGARET TIMMINS 63	1:31.40 MARGARET TIMMINS 63	1:32.10 ANN PISCIOTTA 62	1:17.45 BERNA BENNETT 65
1:11.76 DIANE REED 61	1:34.28 NANCY MAC BETH 63	1:35.46 CAROL TAYLOR 64	1:18.91 JUNE KRAUSER 65
1:13.68 GAIL ROPER 63	1:34.72 ANN PISCIOTTA 62	1:35.65 JOAN ALEXANDER 61	1:21.48 MARGERY MEYER 69
1:17.24 HARRIET FORKEY 60	1:34.79 JUDY CHADIMA 62	1:36.33 NANCY MAC BETH 63	1:21.92 BERNIECE GREETHAM 65
1:19.47 JUDY CHADIMA 62	1:35.31 JOAN MCINTYRE 64	1:37.37 SYLVIA EISELE 63	1:23.20 CAROLYN DERR 65
1:19.53 BARBARA CALLISON 60	1:35.35 SYLVIA EISELE 63	1:38.38 EDIE GRUENDER 64	1:23.45 JEANNE MERRYMAN 69
1:20.11 KATHIE THEIS 60	1:36.10 MARIA YUNGEL 60	1:44.31 MALCHIA OLSHAN 62	1:23.49 DELLA SEHORN 65
1:20.64 MARGARET HOMANS 60	1:36.18 BARBARA CALLISON 60	1:49.14 ANN DALLAM 62	1:23.62 ANITA HAZEN 65
200 YD. FREE WOMEN 60-64	200 YD. BACK WOMEN 60-64	200 YD. FLY WOMEN 60-64	200 YD. FREE WOMEN 65-69
2:26.09 LAVELLE STOINOFF 93	2:54.33 LAVELLE STOINOFF 93	3:10.64 JUNE KRAUSER 88	2:35.44 CLARA WALKER 92
2:26.09 LAVELLE STOINOFF 60	2:54.33 LAVELLE STOINOFF 60	3:20.22 ANN PISCIOTTA 62	2:35.59 CLARA WALKER 66
2:35.12 ROXANNE MOTTER 61	3:00.04 ROXANNE MOTTER 61	3:34.10 JOAN ALEXANDER 61	2:48.44 JUNE KRAUSER 66
2:41.14 GAIL ROPER 63	3:20.04 NANCY MAC BETH 63	3:34.35 LILLY KRON 61	2:51.11 FLORENCE E. CARR 67
2:41.64 MARGARET TIMMINS 63	3:23.78 MARYJANE MULLINS 62	3:41.94 BARBARA CALLISON 60	2:53.62 DELLA SEHORN 65
2:43.22 DIANE REED 62	3:26.38 JUDY CHADIMA 62	3:44.59 SYLVIA EISELE 63	3:02.33 MARGERY MEYER 69
2:51.97 ANN PISCIOTTA 62	3:27.02 SYLVIA EISELE 63	3:46.89 MALCHIA OLSHAN 62	3:05.20 ANITA HAZEN 65
2:58.42 BARBARA CALLISON 60	3:27.04 JOAN MCINTYRE 64	3:52.67 BARBARA OWENS 63	3:07.30 CAROLYN DERR 65
3:00.26 BETTY BARABASH 64	3:28.85 ANN PISCIOTTA 62	3:53.11 NANCY N. DURSTEIN 63	3:07.91 C.WILLIAMS 68
3:00.44 MALCHIA OLSHAN 62	3:30.66 CINDY BAXTER 60	4:10.61 RUTH A. HOSKINSON 63	3:08.57 LOIS NOCHMAN 68
3:00.82 EDIE GRUENDER 64	3:31.26 BARBARA CALLISON 60	4:15.73 RUTH AARON 64	3:08.73 ELLA CARMICHAEL 69
500 YD. FREE WOMEN 60-64	500 YD. BRST WOMEN 60-64	100 YD. I.M. WOMEN 60-64	500 YD. FREE WOMEN 65-69
6:22.62 LAVELLE STOINOFF 93	39.74 CAROL TAYLOR 90	1:18.93 CLARA WALKER 89	6:49.80 CLARA WALKER 92
6:22.62 LAVELLE STOINOFF 60	40.15 ANN PISCIOTTA 62	1:21.31 ROXANNE MOTTER 61	6:57.63 CLARA WALKER 66
6:57.37 ROXANNE MOTTER 61	41.35 CAROL TAYLOR 64	1:24.69 GAIL ROPER 63	7:15.72 JUNE KRAUSER 66
7:21.81 DIANE REED 62	41.94 LILLY KRON 61	1:25.96 MARGARET TIMMINS 63	7:46.83 FLORENCE E. CARR 67
7:32.43 GAIL ROPER 63	42.03 SYLVIA EISELE 63	1:26.90 BARBARA CALLISON 60	7:53.27 DELLA SEHORN 65
7:38.48 MALCHIA OLSHAN 62	44.59 IRMA REIMER 61	1:27.37 ANN PISCIOTTA 62	8:02.09 ANITA HAZEN 65
7:43.26 ANN PISCIOTTA 62	44.60 CAROL FERGUSON 61	1:29.33 NANCY MAC BETH 63	8:14.23 GRACE ALTUS 69
7:57.94 BARBARA CALLISON 60	44.93 CINDY BAXTER 60	1:31.53 DIANE REED 62	8:16.91 MARGERY MEYER 69
7:58.81 ELLEN VOSE 63	45.48 BARBARA CALLISON 60	1:33.27 CAROL TAYLOR 63	8:24.43 CAROLYN DERR 65
8:07.40 BARBARA JOHNSON 60	46.08 MICKEY SHOCKLEY 64	1:33.62 JACQUELINE DUNLOP 62	8:38.33 LOIS NOCHMAN 68
8:08.05 NANCY N. DURSTEIN 62	46.31 JOYCE BAHLER 63	1:34.13 CAROL FERGUSON 61	8:39.37 FAY BECK 66
1000 YD. FREE WOMEN 60-64	100 YD. BRST WOMEN 60-64	200 YD. I.M. WOMEN 60-64	1000 YD. FREE WOMEN 65-69
13:12.73 LAVELLE STOINOFF 93	1:27.13 ANN PISCIOTTA 91	2:52.50 CLARA WALKER 91	14:04.18 CLARA WALKER 93
13:12.73 LAVELLE STOINOFF 60	1:28.63 ANN PISCIOTTA 62	3:03.62 ROXANNE MOTTER 61	14:04.18 CLARA WALKER 66
15:23.38 GAIL ROPER 63	1:31.72 LILLY KRON 61	3:09.56 BARBARA CALLISON 60	15:05.31 JUNE KRAUSER 66
15:44.97 ANN PISCIOTTA 62	1:32.97 CAROL TAYLOR 63	3:11.41 ANN PISCIOTTA 62	15:46.87 FLORENCE CARR 67
16:10.38 MALCHIA OLSHAN 62	1:33.83 SYLVIA EISELE 63	3:16.34 NANCY MAC BETH 63	16:38.90 ANITA HAZEN 65
16:29.57 BARBARA JOHNSON 60	1:35.02 CAROL FERGUSON 61	3:24.74 CAROL TAYLOR 63	16:40.19 GRACE ALTUS 69
16:35.37 ELLEN VOSE 63	1:37.87 BARBARA CALLISON 60	3:24.87 SYLVIA EISELE 63	17:25.42 FAY BECK 66
16:37.15 CAROL TAYLOR 63	1:38.25 IRMA REIMER 61	3:25.92 LILLY KRON 61	17:35.11 LOIS NOCHMAN 68
16:46.74 NANCY N. DURSTEIN 63	1:38.84 JOYCE BAHLER 63	3:26.76 JOAN ALEXANDER 61	17:52.51 NAN BLACKLEDGE 68
16:47.84 EDIE GRUENDER 64	1:38.87 CINDY BAXTER 60	3:28.59 JUDY CHADIMA 62	18:21.13 CLARA SOTAK 68
16:50.91 PARKIE COPELAND 63	1:40.53 MICKEY SHOCKLEY 64	3:29.01 DIANE REED 62	18:27.90 BETH BLICKFEDLT 67
1650 YD. FREE WOMEN 60-64	200 YD. BRST WOMEN 60-64	400 YD. I.M. WOMEN 60-64	

TOP TEN SHORT COURSE YARDS

1650 YD. FREE WOMEN 65-69	23:46.31 CLARA WALKER 93	23:46.31 CLARA WALKER 66	25:05.92 JUNE KRAUSER 66	26:36.97 FLORENCE E. CARR 67	27:15.61 MARGERY MEYER 69	27:18.98 GRACE ALTUS 69	28:24.02 ELEANOR B WESSNER 66	28:34.78 ANITA HAZEN 65	29:17.08 LOIS NOCHMAN 68	29:39.88 NAN BLACKLEDGE 67	31:33.76 BOBBI TURCOTTE 65	50 YD. BACK WOMEN 65-69	36.03 CLARA WALKER 92	36.76 CLARA WALKER 66	39.73 DELLA SEHORN 65	40.17 DORIS STEADMAN 68	41.83 BERNIECE GREETHAM 65	41.88 DOROTHY LA CHASSE 68	42.39 FLORENCE CARR 67	43.01 C.WILLIAMS 68	43.10 REGAN KENNER 69	43.49 JUNE KRAUSER 66	44.05 JEANNE MERRYMAN 69	44.05 BERNA BENNETT 65	100 YD. BACK WOMEN 65-69	1:21.48 CLARA WALKER 93	1:21.48 CLARA WALKER 66	1:26.18 DORIS STEADMAN 68	1:27.30 EDITH GABRIEL 67	1:29.64 DELLA SEHORN 65	1:33.23 FLORENCE CARR 67	1:33.81 REAGAN KENNER 68	1:33.98 JUNE KRAUSER 66	1:35.58 BERNIECE GREETHAM 65	1:36.24 C.WILLIAMS 68	1:39.86 JEANNE MERRYMAN 69	200 YD. BACK WOMEN 65-69	2:58.87 CLARA WALKER 92	3:00.23 CLARA WALKER 66	3:16.87 DELLA SEHORN 65	3:20.88 JUNE KRAUSER 66	3:23.41 REGAN KENNER 69	3:24.89 FLORENCE CARR 67	3:29.98 BERNIECE GREETHAM 65	3:32.25 C.WILLIAMS 68	3:35.88 PEGGY SANBORN 65	3:35.92 LOIS NOCHMAN 68	3:43.13 ALICIA COLEMAN 67	50 YD. BRST WOMEN 65-69	40.79 CLARA WALKER 93	40.79 CLARA WALKER 66	45.28 ALICIA COLEMAN 67	45.47 FLORENCE E. CARR 67	45.89 M.J. AMSBARY 68	46.23 JUNE KRAUSER 65	46.24 REGAN KENNER 69	47.17 DELLA SEHORN 65	48.31 DORI MCTIGUE 66	48.36 JACQUIE PLACAK 68	48.40 SUZANNE GRAHAM 66	100 YD. BRST WOMEN 65-69	1:29.00 CLARA WALKER 93	1:29.00 CLARA WALKER 66	1:41.12 JUNE KRAUSER 65	1:41.58 REGAN KENNER 69	1:41.71 FLORENCE CARR 67	1:41.99 ALICIA COLEMAN 67	1:43.00 MARYJANE AMSBARY 68	1:43.08 DELLA SEHORN 65	1:46.10 BONG YI LEE 67	1:47.59 MAGGIE MORS 67	1:48.08 ELFRIEDE ROGERS 65	200 YD. BRST WOMEN 65-69	3:15.96 CLARA WALKER 93	3:14.79 CLARA WALKER 66NV	3:33.25 JUNE KRAUSER 65	3:42.34 REGAN KENNER 69	3:49.17 M.J. AMSBARY 67	3:49.23 MURIEL FLYNN 69	3:53.13 BUNNY DAWSON 65	3:54.89 ELFRIEDE ROGERS 65	3:59.74 LOIS NOCHMAN 68	4:01.84 GLADYS B. OLSEN 66	4:04.51 MARIAN WOLLE 65	50 YD. FLY WOMEN 65-69	38.39 JEANNETTE EPPELY 85	39.56 FLORENCE CARR 67	39.93 CLARA WALKER 66	40.07 LOIS NOCHMAN 68	40.84 JUNE KRAUSER 65	40.99 DELLA SEHORN 65	42.83 C.WILLIAMS 68	43.87 DOROTHY LA CHASSE 68	44.34 BETTY DUNN 68	44.53 JEANNE MERRYMAN 69	46.31 CAROLYN DERR 65	100 YD. FLY WOMEN 65-69	1:28.14 JUNE KRAUSER 91	1:29.89 JUNE KRAUSER 66	1:30.40 DELLA SEHORN 65	1:35.69 CLARA WALKER 66	1:40.16 FLORENCE CARR 67	1:42.58 LOIS NOCHMAN 68	1:44.95 BETTY DUNN 68	1:47.45 ALICIA COLEMAN 67	1:48.48 CAROLYN DERR 65	1:51.86 RUTH MANFREDI 69	1:52.44 ELFRIEDE ROGERS 65	200 YD. FLY WOMEN 65-69	3:13.72 JUNE KRAUSER 91	3:19.48 JUNE KRAUSER 66	3:28.65 CLARA WALKER 66	3:38.70 LOIS NOCHMAN 68	3:43.11 FLORENCE CARR 67	4:01.13 ELFRIEDE ROGERS 65	4:01.20 BETTY DUNN 68	4:15.49 MARIAN WOLLE 65	4:28.14 GLADYS B. OLSEN 66	4:36.34 JOAN M. GLARATON 65	5:15.26 M.R. NEWMAN 69	100 YD. I.M. WOMEN 65-69	1:19.84 CLARA WALKER 92	1:20.23 CLARA WALKER 66	1:27.71 DELLA SEHORN 65	1:29.20 JUNE KRAUSER 66	1:29.91 FLORENCE E. CARR 67	1:32.70 DOROTHY LA CHASSE 68	1:35.11 BERNIECE GREETHAM 65	1:38.96 C.WILLIAMS 68	1:39.07 SUZANNE GRAHAM 66	1:39.57 ALICIA COLEMAN 67	1:40.27 LOIS NOCHMAN 68	200 YD. I.M. WOMEN 65-69	2:54.51 CLARA WALKER 92	2:57.28 CLARA WALKER 66	3:10.06 JUNE KRAUSER 65	3:10.64 DELLA SEHORN 65	3:17.88 FLORENCE E. CARR 67	3:32.15 GRACE ALTUS 69	3:35.16 C.WILLIAMS 68	3:35.92 LOIS NOCHMAN 68	3:42.88 ELFRIEDE ROGERS 65	3:46.74 MARIAN WOLLE 65	3:48.76 BETTY DUNN 68	400 YD. I.M. WOMEN 65-69	6:24.09 CLARA WALKER 93	6:24.09 CLARA WALKER 66	6:41.46 JUNE KRAUSER 66	6:58.04 DELLA SEHORN 65	7:07.78 FLORENCE E. CARR 67	7:46.49 ALICIA COLEMAN 67	7:52.16 LOIS NOCHMAN 68	7:58.79 ELFRIEDE ROGERS 65	8:01.88 MARIAN WOLLE 65	8:14.70 BETTY DUNN 68	8:27.05 NAN BLACKLEDGE 68	50 YD. FREE WOMEN 70-74	33.79 DOROTHY DONNELLY 93	33.79 DOROTHY DONNELLY 71	33.98 JEANNE MERRYMAN 70	35.61 MARGERY MEYER 70	37.92 BETTY CHRISTIAN 71	38.16 LOUISE K. DONOVAN 74	38.43 BILLI ANN BURILL 72	38.55 SUSANNA MARVEL 73	39.98 MURIEL FLYNN 70	40.08 NANCY PHILLIPS 71	40.36 BARDI J. DENDY 71	100 YD. FREE WOMEN 70-74	1:15.98 DOROTHY DONNELLY 92	1:18.24 DOROTHY DONNELLY 71	1:20.72 JEANNE MERRYMAN 70	1:20.78 MARGERY MEYER 70	1:28.51 B.ANN BURRILL 72	1:28.64 SUSANNA MARVEL 73	1:29.11 LOUISE K. DONOVAN 74	1:30.64 MURIEL FLYNN 70	1:30.69 DIANA M SILVA 70	1:30.97 RITA SIMONTON 74	1:32.49 NANCY PHILLIPS 71	200 YD. FREE WOMEN 70-74	2:51.42 MARGERY MEYER 93	2:51.42 MARGERY MEYER 70	3:02.49 DOROTHY DONNELLY 71	3:11.21 JEANNE MERRYMAN 70	3:13.97 RITA SIMONTON 74	3:16.41 B.ANN BURRILL 72	3:16.81 SUSANNA MARVEL 73	3:18.87 LOUISE K. DONOVAN 74	3:20.88 DIANA M SILVA 70	3:26.31 JEAN A. BEERS 70	3:28.28 NANCY PHILLIPS 71	500 YD. FREE WOMEN 70-74	7:51.53 MARGERY MEYER 93	7:51.53 MARGERY MEYER 70	8:28.44 RITA SIMONTON 74	8:41.72 B.ANN BURRILL 72	8:55.56 DIANA M SILVA 70	8:58.77 SUSANNA MARVEL 73	9:03.93 DOROTHY DONNELLY 71	9:16.43 NANCY PHILLIPS 71	9:23.39 PAULINE STANGEL 71	9:24.93 MAURINE KORNFELD 71	9:26.93 JANE ROSSELL 71	1000 YD. FREE WOMEN 70-74	16:23.35 MARGERY MEYER 93	16:23.35 MARGERY MEYER 70	17:19.53 RITA SIMONTON 74	17:50.04 B.ANN BURRILL 72	18:07.41 JEANNE MERRYMAN 70	18:36.98 SUSANNA MARVEL 73	18:49.85 DIANA M SILVA 70	19:21.33 JEAN BEERS 70	19:38.59 NANCY PHILLIPS 71	19:44.24 DORIS PETERS 70	20:01.44 JANE ROSSELL 71	1650 YD. FREE WOMEN 70-74	27:15.78 MARGERY MEYER 93	27:15.78 MARGERY MEYER 70	29:00.71 RITA SIMONTON 74	29:38.07 B.ANN BURRILL 72	30:53.27 SUSANNA MARVEL 73	34:53.55 ZADA TAFT 73	37:42.01 MARION CHADWICK 71	39:03.71 MARIE KREIPE 73	42:57.91 ELFIE J STEVENIN 71	50 YD. BACK WOMEN 70-74	40.87 MARGERY MEYER 93	40.87 MARGERY MEYER 70	42.92 JEANNE MERRYMAN 70	43.28 BETTY CHRISTIAN 71	46.49 NANCY PHILLIPS 71	47.24 JOSEPHINE PALLIN 72	47.87 DOROTHY DONNELLY 71	48.06 DIANA M SILVA 70	49.03 ELSIE STEVENS 71	49.74 LOUISE K. DONOVAN 74	50.24 IRENE SANDAHL 71	100 YD. BACK WOMEN 70-74	1:33.65 JEANNE MERRYMAN 93	1:33.65 JEANNE MERRYMAN 70	1:35.01 BETTY CHRISTIAN 71	1:35.49 MARGERY MEYER 70	1:38.79 PATSY WEISS 70	1:44.45 NANCY PHILLIPS 71	1:46.36 DIANA M SILVA 70	1:47.98 LOUISE K. DONOVAN 74	1:48.13 JOSEPHINE PALLIN 72	1:48.74 DOROTHY DONNELLY 71	1:50.57 ELSIE STEVENS 71	200 YD. BACK WOMEN 70-74	3:19.98 MARGERY MEYER 93	3:19.98 MARGERY MEYER 70	3:25.12 PATSY WEISS 70	3:32.87 JEANNE MERRYMAN 70	3:43.03 DIANA M SILVA 70	3:45.62 BETTY CHRISTIAN 71	3:48.30 NANCY PHILLIPS 71	3:54.74 MERLYN EWBANK 73	3:57.91 ELSIE STEVENS 71	4:02.93 JANE DOUGHERTY 71	4:04.31 JAE HOWELL 70	50 YD. BRST WOMEN 70-74	43.90 BETTY CHRISTIAN 93	43.90 BETTY CHRISTIAN 71	45.06 DORIS PETERS 70	47.08 PATSY WEISS 70	49.20 JAE HOWELL 70	49.77 MURIEL FLYNN 70	50.62 JEAN BEERS 70	51.55 DOROTHY DONNELLY 71	51.97 JEANNE MERRYMAN 70	53.74 BARDI J. DENDY 71	54.20 PAULINE B STANGEL 71	100 YD. BRST WOMEN 70-74	1:39.18 BETTY CHRISTIAN 92	1:40.20 BETTY CHRISTIAN 71	1:47.00 PATSY WEISS 70	1:48.76 MURIEL FLYNN 70	1:51.93 JAE HOWELL 70	1:58.81 RITA SIMONTON 74	2:00.42 PAULINE STANGEL 71	2:01.43 JEAN BEERS 70	2:03.40 DORIS PETERS 70	2:04.10 EDITH GLUSAC 74	2:04.94 AGOTA FROHS 73
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TOP TEN SHORT COURSE YARDS

200 YD. BRST WOMEN 70-74	7:41.65 PATSY WEISS	70	31:01.55 JEAN DURSTON	90	4:07.40 GERTRUD ZINT	93
3:36.00 BETTY CHRISTIAN	8:08.91 JAE HOWELL	70	31:15.28 AUDREY ETIENNE	75	4:07.40 GERTRUD ZINT	75
3:36.98 BETTY CHRISTIAN	8:10.71 DIANA M SILVA	70	33:02.92 MARY JANE REEVES	75	4:21.15 KAY M. SCHIMPF	75
3:48.36 PATSY WEISS	8:29.99 MERLYN EWBANK	73	33:10.61 JEAN DURSTON	78	4:41.46 MARGARET HUBBARD	77
3:54.09 MURIEL FLYNN	8:35.75 JUNE B. REYNOLDS	70	33:16.09 MARJORIE SHARPE	76	4:42.39 SALLY JOY	76
4:02.03 JAE HOWELL	8:44.37 JANE DOUGHERTY	71	33:29.20 KAY M. SCHIMPF	75	4:51.23 JEAN DURSTON	78
4:08.76 JANE DOUGHERTY	10:14.02 ZADA TAFT	73	34:11.01 ANNE WALKER	76	4:55.52 MARY JANE REEVES	76
4:24.02 JEAN A. BEERS	10:40.62 ROSEMARY KARIKER	73	35:47.82 HELEN ROUMASSET	77	5:01.61 HILDA BUEL	79
4:24.09 LELA PIERCE	12:00.17 ELFIE J STEVENIN	71	35:49.41 PAT MATTHIESEN	76	5:05.60 HELEN ROUMASSET	77
4:24.30 JUNE B. REYNOLDS	13:34.66 MARION CHADWICK	71	36:46.15 EDNA LAFLIN	75	5:17.83 PAT MATTHIESEN	76
4:25.12 PAULINE B STANGEL	*****		39:11.74 SALLY JOY	76	5:38.48 JEAN CHENAUX	79
4:27.10 MERLYN EWBANK						
50 YD. FLY WOMEN 70-74	50 YD. FREE WOMEN 75-79		50 YD. BACK WOMEN 75-79		50 YD. FLY WOMEN 75-79	
40.34 JEANNETTE EPPLEY	36.17 LENORE WINGARD	87	46.51 MARIE WICKLUN	89	47.97 GERTRUD ZINT	93
40.85 JEANNE MERRYMAN	37.46 LOUISE DONOVAN	75	47.44 ANNE WALKER	76	47.97 GERTRUD ZINT	75
46.42 DOROTHY DONNELLY	39.96 AUDREY ETIENNE	76	48.90 MARIE WICKLUN	78	52.34 KAY M. SCHIMPF	75
47.85 JEANNETTE EPPLEY	43.03 MARGARET NAGLE	76	50.34 AUDREY ETIENNE	76	54.08 SALLY JOY	75
50.34 LOUISE K. DONOVAN	43.46 NANCY CLARK	78	50.52 GERTRUD J. ZINT	75	54.29 AUDREY ETIENNE	76
50.45 DIANA M SILVA	43.55 KAY M. SCHIMPF	75	50.62 MARIA LENK	78	58.01 JEAN DURSTON	78
51.73 JAE HOWELL	44.22 GERTRUD J. ZINT	75	51.55 Y. FRISCHHERTZ	75	1:00.08 VIOLA L THOMPSON	75
52.22 NANCY PHILLIPS	44.27 ANNE WALKER	76	52.83 KAY M. SCHIMPF	75	1:00.70 MARGARET HUBBARD	77
52.40 JUNE B. REYNOLDS	44.61 MARIE WICKLUN	78	57.71 MARY LATHRAM	77	1:03.04 ANNE WALKER	76
53.09 SUE MCGAUGHEY	46.28 MARDIE BROWN	75	58.00 IVY BROWNE	78	1:05.16 MARY REEVES	75
53.37 JEAN A. BEERS	46.40 Y. FRISCHHERTZ	75	58.09 SALLY JOY	75	1:05.47 HELEN ROUMASSET	77
100 YD. FLY WOMEN 70-74	100 YD. FREE WOMEN 75-79		100 YD. BACK WOMEN 75-79		100 YD. FLY WOMEN 75-79	
1:39.75 JEANNETTE EPPLEY	1:21.57 LENORE WINGARD	86	1:42.30 ANNE WALKER	92	2:00.42 GERTRUD ZINT	93
1:55.25 JAE HOWELL	1:25.88 LOUISE DONOVAN	75	1:47.76 MARDIE BROWN	75	2:00.42 GERTRUD ZINT	75
1:55.39 DOROTHY DONNELLY	1:34.95 AUDREY ETIENNE	76	1:48.64 MARIE WICKLUN	78	2:04.15 KAY M. SCHIMPF	75
1:55.61 DIANA M SILVA	1:36.88 GERTRUD J. ZINT	75	1:49.14 LOUISE DONOVAN	75	2:09.53 JEAN DURSTON	78
1:59.89 JUNE B. REYNOLDS	1:39.73 JEAN DURSTON	78	1:53.86 GERTRUD J. ZINT	75	2:22.06 PAT MATTHIESEN	76
2:00.95 IRENE SANDAHL	1:40.82 NANCY CLARK	78	1:57.39 KAY M. SCHIMPF	75	2:22.20 MARDIE BROWN	75
2:05.37 MERLYN EWBANK	1:41.43 KAY M. SCHIMPF	75	2:01.32 SALLY JOY	75	2:25.83 HELEN ROUMASSET	77
2:06.32 SUE S. MCGAUGHEY	1:42.69 MARGARET NAGLE	76	2:02.60 JO LACY	75	2:27.20 MARY WENTWORTH	76
2:11.68 WINNIE F. WALTER	1:43.11 MARY JANE REEVES	75	2:07.55 F.E. CICHANSKI	76	2:35.39 ANNE WILDER	79
2:11.72 ZADA TAFT	1:44.20 MARDIE BROWN	75	2:07.83 MARGARET NAGLE	76	2:57.53 HILDA BUEL	79
2:13.98 JEAN B. ZULICH	1:46.41 L. STEVENSON	77	2:08.97 IVY BROWNE	77	3:23.81 HELENA W HOFFMAN	77
200 YD. FLY WOMEN 70-74	200 YD. FREE WOMEN 75-79		200 YD. BACK WOMEN 75-79		200 YD. FLY WOMEN 75-79	
3:54.84 JEANNETTE EPPLEY	3:05.04 LENORE WINGARD	87	3:42.11 MARIE WICKLUN	91	4:19.43 MAXINE MERLINO	88
4:12.45 JAE HOWELL	3:21.01 LOUISE DONOVAN	75	3:50.28 MARIE WICKLUN	78	4:41.13 JEAN DURSTON	78
4:20.47 MERLYN EWBANK	3:30.17 AUDREY ETIENNE	76	4:15.17 KAY M. SCHIMPF	75	4:43.74 KAY M. SCHIMPF	75
4:26.42 JUNE B. REYNOLDS	3:36.29 KAY M. SCHIMPF	75	4:19.19 JO LACY	75	5:11.60 GERTRUD J. ZINT	75
4:54.77 JANE DOUGHERTY	3:38.58 MARIA LENK	78	4:25.61 SALLY JOY	76	5:14.13 MARY WENTWORTH	77
4:55.83 WINNIE F. WALTER	3:40.04 NANCY CLARK	78	4:32.65 PAT MATTHIESEN	76	5:15.96 HELEN ROUMASSET	77
5:43.31 ROSEMARY KARIKER	3:41.63 MARY JANE REEVES	75	4:39.97 F.E. CICHANSKI	75	5:33.21 PAT MATTHIESEN	76
6:12.58 ELFIE J STEVENIN	3:42.69 MARDIE BROWN	75	4:42.59 MARY LATHRAM	77	6:11.24 ANNE WILDER	79
7:35.70 ZONA JONES	3:47.26 GERTRUD J. ZINT	75	4:46.60 LOIS ELLERT	78	6:31.59 HILDA BUEL	79
100 YD. I.M. WOMEN 70-74	3:48.57 JEAN DURSTON	78	4:47.79 ELIZABETH COLBURN	75	7:07.21 HELENA W HOFFMAN	77
1:33.02 BETTY CHRISTIAN	3:51.78 MARGARET NAGLE	76	4:51.82 HELEN ROUMASSET	77	8:03.61 FRANCES BELL	75
1:33.02 BETTY CHRISTIAN	500 YD. FREE WOMEN 75-79		50 YD. BRST WOMEN 75-79		100 YD. I.M. WOMEN 75-79	
1:36.66 PATSY WEISS	8:53.70 LOUISE DONOVAN	93	48.53 GERTRUD ZINT	93	1:43.76 GERTRUD ZINT	93
1:38.02 DOROTHY DONNELLY	8:53.70 LOUISE DONOVAN	75	48.53 GERTRUD ZINT	75	1:43.76 GERTRUD ZINT	75
1:42.00 JEANNE MERRYMAN	9:19.41 AUDREY ETIENNE	76	51.98 SALLY JOY	75	1:51.91 MARIA LENK	78
1:43.18 MARGERY MEYER	9:22.64 MARIA LENK	78	53.24 KAY M. SCHIMPF	75	1:52.09 AUDREY ETIENNE	75
1:47.87 MURIEL FLYNN	9:36.98 KAY M. SCHIMPF	75	56.21 MARGARET HUBBARD	77	1:52.64 KAY M. SCHIMPF	75
1:48.36 NANCY PHILLIPS	9:45.13 JEAN DURSTON	78	1:00.74 PAT MATTHIESEN	76	1:57.15 SALLY JOY	75
1:48.44 DIANA M SILVA	9:46.50 MARY JANE REEVES	75	1:03.05 JEAN DURSTON	78	2:00.68 ANNE WALKER	76
1:49.12 JAE HOWELL	9:47.12 GERTRUD J. ZINT	75	1:03.79 HELEN ROUMASSET	77	2:02.11 Y. FRISCHHERTZ	75
1:49.22 JEANNETTE EPPLEY	9:54.60 MARDIE BROWN	75	1:03.88 AUDREY ETIENNE	76	2:03.05 JEAN DURSTON	78
200 YD. I.M. WOMEN 70-74	10:08.41 MARGARET NAGLE	76	1:04.80 Y. FRISCHHERTZ	75	2:03.16 MARGARET HUBBARD	77
3:31.04 DOROTHY DONNELLY	10:17.80 EDNA LAFLIN	75	1:05.13 MARY JANE REEVES	75	2:03.70 NANCY CLARK	78
3:32.23 DOROTHY DONNELLY	1000 YD. FREE WOMEN 75-79		100 YD. BRST WOMEN 75-79		200 YD. I.M. WOMEN 75-79	
3:34.34 PATSY WEISS	18:18.21 LOUISE DONOVAN	93	1:53.48 GERTRUD ZINT	93	3:56.09 MAXINE MERLINO	88
3:54.86 DIANA M SILVA	18:18.21 LOUISE DONOVAN	75	1:53.48 GERTRUD ZINT	75	3:57.28 GERTRUD J. ZINT	75
3:57.78 JAE HOWELL	18:50.54 AUDREY ETIENNE	76	1:58.15 KAY M. SCHIMPF	75	4:08.38 MARIA LENK	78
4:01.29 MERLYN EWBANK	19:09.88 MARIA LENK	78	2:04.53 SALLY JOY	76	4:13.82 KAY M. SCHIMPF	75
4:02.72 JUNE B. REYNOLDS	19:35.21 ANNE WALKER	76	2:06.33 MARGARET HUBBARD	77	4:14.24 MARDIE BROWN	75
4:03.62 IRENE SANDAHL	20:23.24 KAY M. SCHIMPF	75	2:13.73 MARDIE BROWN	75	4:25.83 JEAN DURSTON	78
4:04.28 DORIS PETERS	20:30.13 JEAN DURSTON	78	2:17.67 HELEN ROUMASSET	77	4:36.52 VIOLA L THOMPSON	75
4:07.05 JEAN BEERS	20:31.52 GERTRUD J. ZINT	75	2:18.01 MARY REEVES	75	4:39.91 MARY REEVES	75
4:12.57 NANCY PHILLIPS	21:50.22 EDNA LAFLIN	75	2:18.35 MARY WENTWORTH	77	4:46.10 PAT MATTHIESEN	76
400 YD. I.M. WOMEN 70-74	22:00.84 HELEN ROUMASSET	77	2:20.44 JEAN DURSTON	78	4:49.85 HELEN ROUMASSET	77
7:36.45 MAXINE MERLINO	22:06.48 PAT MATTHIESEN	76	2:24.03 PAT MATTHIESEN	76	4:50.02 MARY WENTWORTH	76
	1650 YD. FREE WOMEN 75-79		200 YD. BRST WOMEN 75-79		400 YD. I.M. WOMEN 75-79	

TOP TEN SHORT COURSE YARDS

8:10.40 MAXINE MERLINO 88	1:17.89 SALLY RYCKMAN 81	9:53.28 ELSA MATTILA 90	6:26.12 ANNA BAUSCHER 93
8:41.11 KAY M. SCHIMPF 75	100 YD. BACK WOMEN 80-84	10:48.01 ELSA MATTILA 82	6:26.12 ANNA BAUSCHER 90
8:48.88 GERTRUD J. ZINT 75	1:56.19 AILEEN SOULE 89	*****	500 YD. FREE WOMEN 90-94
9:17.43 JEAN DURSTON 78	2:13.88 MARION MUELLER 81	50 YD. FREE WOMEN 85-89	15:48.03 ANNA BAUSCHER 92
10:04.64 PAT MATTHIESEN 76	2:17.24 ELSA MATTILA 82	48.59 AILEEN SOULE 91	15:48.03 ANNA BAUSCHER 90
10:14.78 MARY WENTWORTH 77	2:17.72 JULIA DOLCE 83	1:38.87 MAMIE BROWN 88	1000 YD. FREE WOMEN 90-94
10:22.25 HELEN ROUMASSET 77	2:23.51 MARIE KELLEHER 80	1:47.55 JEANNE MILLER 85	32:53.76 ANNA BAUSCHER 93
11:29.75 HILDA BUEL 79	2:25.51 EVA MULLER 80	1:47.55 JEANNE MILLER 85	32:53.76 ANNA BAUSCHER 90
11:44.23 ANNE WILDER 79	2:35.13 EDITH HENDRY 82	1:51.05 AILEEN SOULE 91	50 YD. BACK WOMEN 90-94
12:48.50 HELENA W HOFFMAN 77	2:42.08 HEDY PULLMAN 81	2:41.88 M.B. McKECHNIE 88	1:29.44 ANNA BAUSCHER 93
13:20.57 FRANCES BELL 75	200 YD. BACK WOMEN 80-84	4:09.10 MAMIE BROWN 88	1:29.44 ANNA BAUSCHER 90
*****	4:16.57 AILEEN SOULE 91	200 YD. FREE WOMEN 85-89	100 YD. BACK WOMEN 90-94
50 YD. FREE WOMEN 80-84	4:35.87 ELSA MATTILA 82	4:08.66 AILEEN SOULE 91	3:32.00 PEARL MILLER 88
44.25 JULIA DOLCE 91	4:44.83 MARION MUELLER 81	5:55.30 M.B. McKECHNIE 88	NO SWIMMERS
46.44 JULIA DOLCE 83	4:57.16 EVA MULLER 80	500 YD. FREE WOMEN 85-89	200 YD. BACK WOMEN 90-94
49.02 MARIE KELLEHER 80	5:01.01 JEWEL COOKE 84	14:15.17 MARIAN MCKECHNIE 90	7:33.41 PEARL MILLER 88
54.25 HELMI B. MEISE 80	5:03.37 MARIE KELLEHER 80	NO SWIMMERS	6:29.37 ANNA BAUSCHER 90NV
56.06 EDITH HENDRY 82	5:26.29 HEDY PULLMAN 81	1000 YD. FREE WOMEN 85-89	50 YD. BRST WOMEN 90-94
56.99 ELLEN TAIT 82	5:31.15 EDITH HENDRY 82	30:28.48 MARIAN MCKECHNIE 92	2:26.52 LUELLA TYRA 84
58.69 ELSA MATTILA 82	6:47.43 DOREEN MORRIS 80	NO SWIMMERS	NO SWIMMERS
1:00.58 SALLY RYCKMAN 81	6:53.13 ELIZABETH JOHN 82	1650 YD. FREE WOMEN 85-89	100 YD. BRST WOMEN 90-94
1:00.76 PEARL SOBEL 81	50 YD. BRST WOMEN 80-84	50:54.73 ELLA PECKHAM 85	5:30.32 LUELLA TYRA 83
1:03.35 MARION MUELLER 81	59.02 HELMI MEISE 93	NO SWIMMERS	NO SWIMMERS
1:04.95 HELEN OFFENHAUSER 80	59.02 HELMI B. MEISE 80	50 YD. BACK WOMEN 85-89	200 YD. BRST WOMEN 90-94
100 YD. FREE WOMEN 80-84	1:06.91 ELSA MATTILA 82	49.59 AILEEN SOULE 91	11:48.36 LUELLA TYRA 83
1:39.96 JULIA DOLCE 90	1:10.74 MARIE KELLEHER 80	1:12.43 SALLY SCOTT 85	NO SWIMMERS
1:47.76 JULIA DOLCE 83	1:24.90 PEARL SOBEL 81	1:26.66 M.B. McKECHNIE 88	50 YD. FLY WOMEN 90-94
2:04.80 ELLEN TAIT 82	1:32.07 HELEN OFFENHAUSER 80	1:49.27 MAMIE BROWN 88	4:13.58 ANNA BAUSCHER 93
2:12.77 HELEN OFFENHAUSER 80	1:32.69 SALLY RYCKMAN 81	100 YD. BACK WOMEN 85-89	4:13.58 ANNA BAUSCHER 90
2:13.95 EDITH HENDRY 82	1:33.98 INGE WEIL 81	1:55.84 AILEEN SOULE 91	100 YD. I.M. WOMEN 90-94
2:19.90 SALLY RYCKMAN 81	1:35.17 MARGOT LENIGK 81	2:49.21 SALLY SCOTT 85	5:22.45 ANNA BAUSCHER 93
2:23.12 MARION MUELLER 81	1:37.46 HEDY PULLMAN 81	3:05.71 M.B. McKECHNIE 88	5:22.45 ANNA BAUSCHER 90
2:35.36 HEDY PULLMAN 81	1:54.60 ELIZABETH JOHN 82	4:05.71 MAMIE BROWN 88	200 YD. I.M. WOMEN 90-94
2:48.31 JUDY GORDON 80	100 YD. BRST WOMEN 80-84	200 YD. BACK WOMEN 85-89	10:43.74 ANNA BAUSCHER 93
2:56.88 ELIZABETH JOHN 82	2:17.42 HELMI MEISE 93	4:09.33 AILEEN SOULE 91	10:43.74 ANNA BAUSCHER 90
200 YD. FREE WOMEN 80-84	2:17.42 HELMI B. MEISE 80	6:42.14 M.B. McKECHNIE 88	*****
3:51.76 JULIA DOLCE 90	2:28.83 JEWEL COOKE 84	50 YD. BRST WOMEN 85-89	50 YD. FREE M E N 19-24
4:03.14 JULIA DOLCE 83	2:31.28 ELSA MATTILA 82	1:17.90 MARJ POLLOCK 92	20.73 BRIAN KURZA 93
4:08.92 MARIE KELLEHER 80	3:26.32 HEDY PULLMAN 81	1:17.94 MARJ POLLOCK 85	20.73 BRIAN KURZA 23
4:39.73 HELEN OFFENHAUSER 80	4:17.23 GRACE HIDDLESON 83	2:25.56 JEANNE MILLER 85	21.14 JAMES GARDNER 22
4:43.13 ELLEN TAIT 82	200 YD. BRST WOMEN 80-84	100 YD. BRST WOMEN 85-89	21.39 MARK CORBISIERO 23
5:00.07 EDITH HENDRY 82	5:03.19 ELSA MATTILA 92	2:47.87 KATHERINE PELTON 91	21.63 JOHN GAROFALO 24
5:12.23 SALLY RYCKMAN 81	5:34.33 ELSA MATTILA 82	2:55.45 MARJ POLLOCK 85	21.67 GARY YANG 24
6:23.89 HEDY PULLMAN 81	6:46.85 MARGOT LENIGK 81	200 YD. BRST WOMEN 85-89	22.05 RUSSELL KNLIFF 24
500 YD. FREE WOMEN 80-84	7:26.92 HEDY PULLMAN 81	6:12.44 KATHERINE PELTON 91	22.06 SCOTT SWOBODA 22
10:45.81 RUTH SWITZER 88	50 YD. FLY WOMEN 80-84	NO SWIMMERS	22.11 JOHN-JAY VERHEUL 21
11:57.53 ELLEN TAIT 82	1:06.25 KATHERINE PELTON 86	50 YD. FLY WOMEN 85-89	22.11 C.STRUMPHF 19
13:47.33 EDITH HENDRY 82	1:13.36 ELSA MATTILA 82	1:16.00 ELLA PECKHAM 85	22.25 ANDREW ELLIS 24
14:17.05 SALLY RYCKMAN 81	1:36.02 EVA MULLER 80	1:29.60 SALLY SCOTT 85	100 YD. FREE M E N 19-24
14:21.10 MARION MUELLER 81	100 YD. FLY WOMEN 80-84	100 YD. FLY WOMEN 85-89	45.63 BRIAN KURZA 93
14:40.46 HEDY PULLMAN 81	2:36.36 KATHERINE PELTON 86	3:01.71 ELLA PECKHAM 84	45.63 BRIAN KURZA 23
15:51.76 ELIZABETH JOHN 82	2:51.37 ELSA MATTILA 82	NO SWIMMERS	46.28 MARK CORBISIERO 23
1000 YD. FREE WOMEN 80-84	3:20.02 EVA MULLER 80	200 YD. FLY WOMEN 85-89	47.70 STEVEN REED 24
22:36.51 DOROTHY HOPKINS 90	200 YD. FLY WOMEN 80-84	6:39.85 KATHERINE PELTON 91	47.82 JIM GARDNER 22
22:33.79 MARIE KELLEHER 80NV	5:33.46 ELSA MATTILA 91	NO SWIMMERS	47.89 RUSSELL KNLIFF 24
25:59.85 ELSA MATTILA 82	6:08.45 ELSA MATTILA 82	100 YD. I.M. WOMEN 85-89	48.03 JEFFREY RODDIN 24
30:54.97 ELIZABETH JOHN 82	7:04.04 JUDY GORDON 80	2:41.31 ELLA PECKHAM 84	48.09 C.STRUMPHF 19
1650 YD. FREE WOMEN 80-84	100 YD. I.M. WOMEN 80-84	3:48.91 SALLY SCOTT 85	48.30 SCOTT SWOBODA 22
38:35.07 DOROTHY HOPKINS 90	2:14.16 ELSA MATTILA 90	200 YD. I.M. WOMEN 85-89	48.40 BRADLEY HECHT 23
47:58.81 EDITH HENDRY 82	2:20.29 MARIE KELLEHER 80	5:57.63 ELLA PECKHAM 85	48.62 ANDREW ELLIS 24
52:56.16 MARION MUELLER 81	2:25.04 ELSA MATTILA 82	7:12.42 SALLY SCOTT 85	200 YD. FREE M E N 19-24
50 YD. BACK WOMEN 80-84	2:25.68 JEWEL COOKE 84	400 YD. I.M. WOMEN 85-89	1:41.45 JOHN KEPPELER 92
52.35 AILEEN SOULE 89	2:40.16 HELEN OFFENHAUSER 80	17:13.92 MARTHA KELLER 86	1:43.85 RICHARD DREWELLOW 23
1:01.66 MARION MUELLER 81	2:48.81 PEARL SOBEL 81	NO SWIMMERS	1:46.10 RUSSELL KNLIFF 24
1:01.68 ELSA MATTILA 82	3:10.55 MARION MUELLER 81	*****	1:47.01 BRADLEY HECHT 23
1:04.22 EDITH HENDRY 82	3:18.82 JUDY GORDON 80	50 YD. FREE WOMEN 90-94	1:47.29 STEPHEN GOTH 23
1:04.91 JULIA DOLCE 83	200 YD. I.M. WOMEN 80-84	1:27.65 LUELLA TYRA 83	1:47.32 BRIAN KURZA 23
1:04.97 EVA MULLER 80	4:51.27 JEWEL COOKE 89	1:53.81 ANNA BAUSCHER 90	1:47.78 SCOTT SWOBODA 22
1:08.60 HELEN OFFENHAUSER 80	5:01.29 MARIE KELLEHER 80	100 YD. FREE WOMEN 90-94	1:48.48 BRIAN TIMMERMAN 22
1:08.98 JEWEL COOKE 84	5:06.91 ELSA MATTILA 82	3:12.36 ANNA BAUSCHER 93	1:49.04 BRENDAN HALFFMAN 23
1:12.40 HELMI B. MEISE 80	5:17.26 JEWEL COOKE 84	3:12.36 ANNA BAUSCHER 90	1:49.12 NEIL LANCE 22
1:15.02 ELLEN TAIT 82	400 YD. I.M. WOMEN 80-84	200 YD. FREE WOMEN 90-94	1:49.20 NEIL WILLIAMS 24

TOP TEN SHORT COURSE YARDS

500 YD. FREE M E N 19-24	50 YD. BRST M E N 19-24	100 YD. I.M. M E N 19-24	1:46.32 DENNIS TESCH 27
4:38.46 RICHARD DREWELOW 92	26.98 BRIAN DOAN 93	52.01 ADAM WERTH 92	500 YD. FREE M E N 25-29
4:49.89 STEPHEN GOTH 23	26.98 BRIAN DOAN 22	53.38 GREG DAVIS 22	4:31.90 FRANZ MORTENSEN 93
4:57.91 A.T. COSTANTINI 22	27.20 PETER CHARBONNEAU 23	54.36 PATRICK HELMUTH 23	4:31.90 FRANZ MORTENSEN 29
4:59.28 SCOTT SCHUMAKER 22	27.60 ELLIS EATON 23	54.59 GARY YANG 24	4:36.45 JOHN WITCHEL 25
5:04.51 MARK LOPER 23	27.80 CHRIS ERIKSON 20	54.90 GREGORY MACKEM 24	4:37.16 DANIEL VEATCH 28
5:04.68 RICHARD CLARKE 24	28.46 BRAD BRANCH 24	55.47 RICHARD CLARKE 24	4:40.64 KEVIN CASSON 26
5:05.65 JAMES MURRAY 23	28.62 HARLAN LAWSON 22	55.49 ELLIS EATON 23	4:41.93 MIKE SHAFFER 27
5:05.81 BRAD RUSSELL 22	28.71 NEIL WILLIAMS 24	55.62 CRAIG DOLLEY 24	4:42.00 ROBERT SCHMIDT 28
5:10.05 KEN PETRUZZELLI 19	28.93 P.HENNINGSSEN 23	55.65 JOHN HARLOW 24	4:45.53 DENNIS TESCH 27
5:10.58 BRENDAN HALFFMAN 23	28.98 TODD WALSH 23	55.72 RICHARD DREWELOW 23	4:47.96 MICHAEL MOORE 29
5:12.04 KEVIN NOAH 21	29.13 MICHAEL G LACOUR 19	56.31 BRIAN KURZA 23	4:48.48 JOHN PEARSON 27
1000 YD. FREE M E N 19-24	100 YD. BRST M E N 19-24	200 YD. I.M. M E N 19-24	4:49.20 RANDALL EICKHOFF 27
9:49.98 MARK CLEAVENGER 87	58.69 NEILL WILLIAMS 92	1:54.64 JEFFREY RODDIN 92	1000 YD. FREE M E N 25-29
10:00.81 RICHARD DREWELOW 23	58.83 PETER CHARBONNEAU 23	1:57.84 JEFFREY RODDIN 24	9:26.80 FRANZ MORTENSEN 93
10:26.25 MARK LOPER 23	58.96 BRIAN DOAN 22	1:58.58 RICHARD DREWELOW 23	9:26.80 FRANZ MORTENSEN 29
10:36.46 GREGORY MACKEM 24	59.22 ELLIS EATON 23	2:00.02 ELLIS EATON 23	9:29.79 JEFF ERWIN 28
10:47.48 EUGENE ATANASIO 22	1:00.26 C.ERIKSEN 21	2:00.48 PATRICK HELMUTH 23	9:34.22 DANIEL VEATCH 28
10:48.07 ANDREW LACAVALA 22	1:01.29 JOHN HARLOW 24	2:01.15 GREGORY MACKEM 24	9:45.44 JOHN WITCHEL 25
10:51.44 ROLF MIFFLIN 20	1:02.18 NEIL LANCE 22	2:01.38 JAMES WOLFLE 24	9:53.49 JOHN PEARSON 27
10:53.92 M.KRAAIJVANGER 22	1:03.04 HARLAN LAWSON 22	2:02.03 JOHN HARLOW 24	9:58.43 DENNIS TESCH 27
11:17.64 MARK BATES 24	1:03.32 BRAD BRANCH 24	2:02.13 BRIAN TIMMERMAN 22	10:04.92 JOE MADER 29
11:20.53 MATTHEW CEVALLOS 22	1:03.51 MATT ZINKL 22	2:02.30 BRADLEY HECHT 23	10:09.53 CHUCK WILEY 28
11:21.95 ROBERT VALENTIN 22	1:03.56 STEVE RAIFF 24	2:03.07 BRAD RUSSELL 23	10:10.26 GEORGE SIPPLE 28
1650 YD. FREE M E N 19-24	200 YD. BRST M E N 19-24	400 YD. I.M. M E N 19-24	10:13.10 MICHAEL MOORE 29
16:46.74 MICHAEL COLLINS 89	2:10.76 BRIAN DOAN 93	4:04.34 JOHN KEPPELER 92	1650 YD. FREE M E N 25-29
17:10.44 A.T. COSTANTINI 22	2:10.76 BRIAN DOAN 22	4:11.79 JEFFREY RODDIN 24	15:46.91 BOBBY PATTEN 90
17:22.86 STEPHEN GOTH 23	2:14.10 JOHN HARLOW 24	4:16.61 BRIAN TIMMERMAN 22	16:23.21 DENNIS TESCH 27
18:04.63 ROLF MIFFLIN 20	2:16.94 C.ERIKSEN 21	4:21.68 JAMES WOLFLE 24	16:29.24 ROBERT SCHMIDT 28
18:24.50 BRYAN BUTERBAUGH 23	2:17.49 STEVE RAIFF 24	4:23.30 ELLIS EATON 23	16:34.24 RANDALL EICKHOFF 27
18:27.58 DONOVAN HAGGAS 23	2:17.72 TODD WALSH 23	4:29.18 NEIL WILLIAMS 24	16:59.30 MICHAEL COLLINS 27
18:37.37 ROBERT VALENTIN 23	2:19.52 STEVE JONES 24	4:29.49 SCOTT SHEA 22	17:00.40 FRANZ MORTENSEN 29
19:05.81 KIRK WIMBERLY 24	2:20.79 SCOTT MAY 23	4:34.99 CLARK BIRD 22	17:01.04 JOHN PEARSON 27
19:14.11 MATTHEW CEVALLOS 22	2:21.35 HARLAN LAWSON 22	4:40.07 R. BURGHOLZER 24	17:09.00 ALEX B STILES 26
19:26.10 JOE LONDEREE 24	2:21.43 ERIC PETRILLA 23	4:53.87 DONOVAN HAGGAS 23	17:44.53 JOE MADER 29
19:30.45 CHARLES EHM 23	2:22.18 BRAD BRANCH 24	4:54.43 ROBERT VALENTIN 23	17:44.72 BOB STOCKS 27
50 YD. BACK M E N 19-24	50 YD. FLY M E N 19-24	*****	17:50.23 MICHAEL MOORE 29
24.19 JOHN KEPPELER 92	23.14 ADAM WERTH 92	50 YD. FREE M E N 25-29	50 YD. BACK M E N 25-29
25.26 GREGORY MACKEM 24	23.30 JOHN GAROFLO 24	19.83 ROBERT PEEL 91	23.23 MOOK RHODENBAUGH 91
25.69 CRAIG DOLLEY 24	23.34 STEVEN REED 24	20.94 FRANZ MORTENSEN 29	24.01 CHARLES SIROKY 29
25.98 RICHARD CLARKE 24	23.39 RUSSELL KNLIFF 24	21.15 BERT BERGEN 26	25.19 C.L. STEVENSON 28
26.08 ANDREW GELLER 24	23.46 JEFFREY RODDIN 24	21.32 ROBERT PEEL 27	25.22 TIM NIZNIK 25
26.18 MARK CORBISIERO 23	23.56 MARK CORBISIERO 23	21.37 WINSTON RITCHEY 25	25.22 CRAIG DOLLEY 25
26.19 GARY YANG 24	23.63 GREG DAVIS 22	21.48 MIKE TRAVERS 25	25.54 MICHAEL CREASER 26
26.42 RICHARD DREWELOW 23	23.93 C.MORGAN 21	21.54 STUART CROMARTY 28	25.68 TIM VELASCO 26
26.43 ELIAS MALDONADO 22	24.20 C.STRUFMPHF 19	21.60 STEPHEN STAHL 28	25.72 RANDY HYRE 29
26.84 DAMIEN LAWRENCE 20	24.24 BRADLEY HECHT 23	21.62 NATE DERBY 25	25.85 JOHN WITCHEL 25
27.12 MICHAEL BELL 24	24.30 GARY YANG 24	21.92 DON SWALWELL 27	25.91 TOM NORTHCUTT 27
100 YD. BACK M E N 19-24	100 YD. FLY M E N 19-24	21.93 DAN DUMFORD 25	25.94 MIKE GONZALES 26
51.35 JOHN KEPPELER 92	50.58 JEFFREY RODDIN 92	100 YD. FREE M E N 25-29	100 YD. BACK M E N 25-29
53.86 JEFFREY RODDIN 24	50.71 STEVEN REED 24	44.39 ROBERT PEEL 91	49.83 ANDREW GILL 92
54.66 BRAD RUSSELL 22	51.23 RUSSELL KNLIFF 24	45.06 FRANZ MORTENSEN 29	50.67 BOB HAUCK 27
54.82 STEVEN REED 24	51.25 JEFFREY RODDIN 24	46.74 JOHN WITCHEL 25	51.97 CHARLES SIROKY 29
55.45 RICHARD CLARKE 24	51.28 MARK CORBISIERO 23	46.89 WINSTON RITCHEY 25	52.05 CRAIG DOLLEY 25
56.35 JAMES WOLFLE 24	51.93 JOHN GAROFLO 24	47.09 BERT BERGEN 26	53.59 C.L. STEVENSON 28
56.44 ANDREW GELLER 24	52.43 GREG DAVIS 22	47.09 NATE DERBY 25	53.77 TIM VELASCO 26
57.94 SEAN LARSON 23	52.99 C.MORGAN 21	47.18 MIKE TRAVERS 25	54.32 MICHAEL CREASER 27
58.02 NEIL WILLIAMS 24	53.23 C.STRUFMPHF 19	47.50 CHARLES SIROKY 29	54.81 MARK WHITESIDE 27
58.10 GUY GENIN 24	53.36 BRADLEY HECHT 23	47.51 STEPHEN STAHL 28	54.98 KEVIN CASSON 26
58.35 GREG MACKEM 24	53.59 JAMES WOLFLE 24	47.57 STUART CROMARTY 28	55.13 B.LICHTENWALTER 26
200 YD. BACK M E N 19-24	200 YD. FLY M E N 19-24	47.85 B.LICHTENWALTER 26	55.35 DENNIS TESCH 27
1:50.28 JOHN KEPPELER 92	1:53.38 CHRIS STEVENSON 89	200 YD. FREE M E N 25-29	200 YD. BACK M E N 25-29
1:56.26 RICHARD DREWELOW 23	1:51.04 STEVEN REED 24NV	1:39.38 FRANZ MORTENSEN 93	1:50.32 ROBERT HAUCK 93
1:58.12 BRAD RUSSELL 22	1:56.68 MARK CORBISIERO 23	1:39.38 FRANZ MORTENSEN 29	1:50.32 BOB HAUCK 27
2:00.99 CRAIG DOLLEY 24	1:59.21 JOHN HARLOW 24	1:40.72 JOHN WITCHEL 25	1:54.01 CHARLES SIROKY 29
2:02.33 JAMES WOLFLE 24	2:01.21 JAMES WOLFLE 24	1:43.54 STEPHEN STAHL 28	1:58.66 C.L. STEVENSON 28
2:04.68 JOHN HARLOW 24	2:02.42 BRADLEY HECHT 23	1:44.48 KEVIN CASSON 26	1:58.71 KEVIN CASSON 26
2:05.24 BRIAN SHAVER 20	2:03.00 A.T. COSTANTINI 22	1:45.06 STUART CROMARTY 28	1:58.98 KURT DICKSON 25
2:06.14 R. BURGHOLZER 24	2:05.72 CHRIS LAMBERT 24	1:45.51 JEFFREY RODGERS 26	1:59.59 PATRICK KENNEDY 29
2:06.95 JEFF BURT 24	2:06.40 BRAD RUSSELL 22	1:45.65 BERT BERGEN 26	1:59.80 MARK WHITESIDE 27
2:07.26 THOMAS LYONS 24	2:06.55 EUGENE ATANASIO 22	1:45.97 MICHAEL MOORE 29	2:00.47 DENNIS TESCH 27
2:07.75 GUY GENIN 24	2:07.86 NEIL WILLIAMS 24	1:45.99 JEFF ERWIN 28	2:01.53 THOMAS CREECH 26

TOP TEN SHORT COURSE YARDS

2:02.22 MICHAEL MOORE 29	2:02.14 JOHN PEARSON 27	1:45.78 TED CHAPPELL 31	2:00.72 MIKE KECK 33
50 YD. BRST M E N 25-29	100 YD. I.M. M E N 25-29	1:45.95 STEVEN FISHER 31	2:01.04 WILL DOUGLAS 33
25.34 GREG RHODENBAUGH 91	50.47 MOOK RHODENBAUGH 91	500 YD. FREE M E N 30-34	2:01.09 GREG DOYAS 30
26.97 GUY FARROW 28	52.88 NEILL WILLIAMS 25	4:39.38 STEVEN FISHER 92	50 YD. BRST M E N 30-34
27.09 BOB JENNINGS 26	53.17 BOB HAUCK 27	4:39.45 JEFF STILING 32	25.88 DAVID LUNDBERG 91
27.09 MARK RUTLEDGE 27	53.47 PETER EGAN 29	4:42.93 DAVID LUNDBERG 32	26.39 DEAN PUTTERMAN 31
27.11 NEILL WILLIAMS 25	53.64 DANIEL VEATCH 28	4:44.00 STEVEN FISHER 31	27.55 PETER MCLAFFERTY 30
27.20 DAVE DOLL 29	53.82 TIM NIZNIK 25	4:45.00 CAMERON REID 32	27.57 BENN DOYLE 34
27.30 ANDREW DEICHERT 25	53.82 TYLER JOURDONNAIS 27	4:45.32 GERRY RODRIGUES 30	27.66 CHRIS SHAW 30
27.55 CHRIS SHAW 29	54.44 BOB JENNINGS 26	4:46.95 ROBERT HUDEK 30	28.01 MICHAEL GIROD 30
27.64 TIM NIZNIK 25	54.57 GUY FARROW 28	4:47.15 BOBBY PATTEN 30	28.05 HOLDEN BANK 33
27.64 JOHN HALLMAN 28	54.68 CHRIS SHAW 29	4:48.34 MIKE KECK 33	28.09 C.CAVANAIGH 30
27.65 DANIEL TOM 29	54.86 JEROME FRENTSOS 27	4:48.82 WILLIAM PALMER 32	28.09 DAVID MALSBURY 31
100 YD. BRST M E N 25-29	200 YD. I.M. M E N 25-29	4:53.35 DARRYL JOHNSON 30	28.15 EDDIE SAFA 30
56.21 DAVID LUNDBERG 90	1:52.55 CAMERON REID 88	1000 YD. FREE M E N 30-34	28.32 STEVE BOONE 34
58.54 NEILL WILLIAMS 25	1:55.54 DANIEL VEATCH 28	9:38.13 CAMERON REID 91	100 YD. BRST M E N 30-34
58.86 BOB JENNINGS 27	1:56.24 DAVID CADEMARTORI 27	9:42.63 STEVEN FISHER 31	56.58 DAVID LUNDBERG 91
59.13 GUY FARROW 28	1:56.35 PETER EGAN 29	9:43.51 CAMERON REID 32	56.83 DAVID LUNDBERG 32
59.64 HENRY WISE 25	1:58.06 HENRY WISE 25	9:46.20 BOBBY PATTEN 30	58.25 THOMAS FRISTOE 33
1:00.24 DAVE DOLL 29	1:58.76 JEROME FRENTSOS 27	9:54.31 ROBERT HUDEK 30	1:00.03 DEAN PUTTERMAN 31
1:00.72 NATE DERBY 25	1:58.81 NEILL WILLIAMS 25	9:57.33 GERRY RODRIGUES 30	1:00.23 PETER MCLAFFERTY 30
1:00.73 MARK RUTLEDGE 27	1:58.99 BERT BERGEN 26	10:03.50 MIKE KECK 33	1:00.38 BENN DOYLE 34
1:00.74 JOHN GRAF 25	1:59.55 MARK STORI 27	10:05.93 TED CHAPPELL 31	1:00.90 KEVIN LADD 32
1:00.77 DANIEL TOM 29	2:00.06 BOB JENNINGS 26	10:07.52 WILLIAM PALMER 32	1:01.60 EDDIE SAFA 30
1:01.46 EVAN DAVIS 25	2:00.37 JOE VRUDNY 28	10:12.20 CRAIG NADEL 32	1:02.20 BRIAN SPANGLER 31
200 YD. BRST M E N 25-29	400 YD. I.M. M E N 25-29	10:17.18 GARY ANTONICK 30	1:02.46 STEVE BOONE 34
2:03.69 DOUGLAS SOLTIS 88	3:59.73 CAMERON REID 88	1650 YD. FREE M E N 30-34	1:02.50 MICHAEL GIROD 30
2:09.72 HENRY WISE 25	4:13.32 JEFF ERWIN 28	16:06.55 JAMES KEGLEY 88	200 YD. BRST M E N 30-34
2:11.81 BOB JENNINGS 26	4:16.77 JEROME FRENTSOS 27	16:18.46 BOBBY PATTEN 30	2:02.32 DAVID LUNDBERG 91
2:12.94 DAVE DOLL 29	4:16.78 PETER EGAN 29	16:32.63 ANDREW SAPPEY 33	2:04.70 THOMAS FRISTOE 33
2:12.99 NEILL WILLIAMS 25	4:18.29 RANDALL EICKHOFF 27	16:45.98 GARY PETERS 33	2:05.53 DAVID LUNDBERG 32
2:13.17 STEVE KIRKLAND 27	4:18.81 DENNIS TESCH 27	16:46.57 GERRY RODRIGUES 30	2:12.03 PETER MCLAFFERTY 30
2:14.95 DANIEL TOM 29	4:19.48 JOHN PEARSON 27	16:49.31 ROBERT HUDEK 30	2:13.38 BENN DOYLE 34
2:14.97 MARK RUTLEDGE 27	4:19.94 NEILL WILLIAMS 25	16:57.23 DARRYL JOHNSON 30	2:13.58 EDDIE SAFA 30
2:15.30 TIMOTHY SHERIDAN 28	4:20.13 MARK STORI 27	17:10.76 AVERY KINTNER 31	2:17.27 TOM DUGAN 34
2:15.71 JERRY SMITH 27	4:21.24 THOMAS CREECH 26	17:23.85 LARRY LANCASTER 31	2:17.58 BRIAN SPANGLER 31
2:17.24 GUY FARROW 28	4:21.55 MATTHEW ROTH 26	17:28.20 THOMAS G. SMITH 31	2:17.73 PHILIPPE CALAIS 34
50 YD. FLY M E N 25-29	*****	17:34.09 STUART SMITH 31	2:17.83 JAMES MATYSEK 33
22.27 COY COBB 91	50 YD. FREE M E N 30-34	50 YD. BACK M E N 30-34	2:18.04 DONALD SKEOCH 30
22.63 MATTHEW MITCHELL 25	20.90 JOHN SMITH 92	23.39 CLAY BRITT 92	50 YD. FLY M E N 30-34
22.94 BOB HAUCK 27	21.10 BRUCE STAHL 34	24.02 CLAY BRITT 32	22.66 ROBERT PLACAK 89
23.44 TIM NIZNIK 25	21.10 JOHN SMITH 31	24.30 JOHN SMITH 31	23.02 CLAY BRITT 32
23.46 TYLER JOURDONNAIS 27	21.34 JAMES MIDDLETON 30	24.47 JAY YARID 30	23.21 JOHN SMITH 31
23.49 LAUREN HART 25	21.50 JOE REINHARDT 31	24.67 JOE REINHARDT 32	23.23 ROBERT PLACAK 34
23.58 CHARLES SIROKY 29	21.62 ROBERT KILLEEN 31	24.85 PETER DARDAKIS 34	23.31 BOBBY PATTEN 30
23.76 GARY SQUIRES 29	21.63 CLAY BRITT 32	25.22 BRAD HERING 31	23.37 CHUCK PONTHER 30
23.91 STUART CROMARTY 28	21.65 DAVID COTE 32	25.46 CHRIS SHAW 30	23.41 MARK NOETZEL 30
23.94 ANDERS RASMUSSEN 29	21.75 CHUCK PONTHER 30	25.53 PATRICK HERRERA 33	23.57 MICHAEL MAKARCZYK 33
23.96 JOSEPH THIER 29	21.80 GREG REMMERT 30	25.54 WILLIAM L. SPECHT 34	23.63 ROBERT KILLEEN 31
100 YD. FLY M E N 25-29	21.82 JAMES LILLEY 33	25.78 NICK COLAROSSO 30	23.66 TONY LAZZARETTI 30
49.71 STUART KNOWLES 91	100 YD. FREE M E N 30-34	100 YD. BACK M E N 30-34	23.69 THOMAS REDIG 31
50.78 MATTHEW MITCHELL 25	45.29 JIM MONTGOMERY 85	50.21 CLAY BRITT 92	100 YD. FLY M E N 30-34
50.97 BOB HAUCK 27	46.30 JOHN SMITH 31	51.45 CLAY BRITT 32	49.84 WILLIAM SPECHT 89
51.00 PETER EGAN 29	46.60 JOSEPH LILEIKIS 30	51.67 JAY YARID 30	50.67 BOBBY PATTEN 30
51.48 TYLER JOURDONNAIS 27	46.92 C.CAVANAIGH 30	53.38 JOE REINHARDT 32	51.41 ROBERT PLACAK 34
51.54 TIM NIZNIK 25	47.20 JAMES LILLEY 33	53.82 PETER DARDARIS 34	51.57 MICHAEL MAKARCZYK 33
52.59 C.L. STEVENSON 28	47.20 JOE REINHARDT 31	54.69 KEN BRENTON 33	51.92 MALLORY GRANTHAM 32
52.64 STUART CROMARTY 28	47.33 BRUCE STAHL 34	54.74 WILLIAM L. SPECHT 34	52.00 DENNIS BAKER 31
52.81 KEVIN REYNARD 28	47.65 SAM WORDEN 30	55.21 WILL DOUGLAS 33	52.19 CLAY BRITT 32
53.11 JOSEPH THIER 29	47.70 GREG REMMERT 30	55.35 BRAD HERING 31	52.32 CHUCK PONTHER 30
53.35 LAUREN HART 25	47.81 WILL DOUGLAS 33	55.39 DOUGLAS ELENZ 30	52.33 DICK DILALLA 30
200 YD. FLY M E N 25-29	47.82 THOMAS REDIG 31	55.53 PATRICK HERRERA 33	52.65 JEFF STILING 32
1:49.21 BOBBY PATTEN 90	200 YD. FREE M E N 30-34	55.53 D. PORTELANCE 34	52.77 JAMES LILLEY 33
1:50.10 MIKE SHAFFER 27	1:39.97 JIM MONTGOMERY 88	200 YD. BACK M E N 30-34	200 YD. FLY M E N 30-34
1:50.34 PETER EGAN 29	1:42.43 BOBBY PATTEN 30	1:50.57 JAY YARID 93	1:50.32 BOBBY PATTEN 93
1:57.04 RANDALL EICKHOFF 27	1:42.45 JOSEPH LILEIKIS 30	1:50.57 JAY YARID 30	1:50.32 BOBBY PATTEN 30
1:57.32 TIM NIZNIK 25	1:42.87 JEFF STILING 32	1:56.38 JOE REINHARDT 32	1:53.16 DAVID LUNDBERG 32
1:57.34 DAVID CADEMARTORI 27	1:43.78 THOMAS FRISTOE 33	1:57.27 CAMERON REID 32	1:54.11 MICHAEL MAKARCZYK 33
1:58.73 KEVIN REYNARD 28	1:44.17 JOHN SMITH 31	1:58.43 PETER DARDARIS 34	1:54.62 TED CHAPPELL 31
1:59.84 MIKE HALPENNY 28	1:45.40 TOM VERDIN 31	1:58.67 PAUL DONOHUE 32	1:54.71 JEFF STILING 32
1:59.92 JUSTUS BREESE 28	1:45.73 ROBERT HUDEK 30	2:00.15 GARY ANTONICK 30	1:56.93 GARY ANTONICK 30
2:00.62 MATTHEW ROTH 26	1:45.77 CAMERON REID 32	2:00.38 DAVE COTE 32	1:57.25 CHRIS WATERS 30

TOP TEN SHORT COURSE YARDS

1:57.48 THOMAS FRISTOE 33	1:49.57 JACK BURTON 36	2:02.35 TIMM REGAN 36	2:02.76 SCOTT BEGIN 35
1:57.69 WILLIAM L. SPECHT 34	1:50.51 STEVEN STRONG 38	2:04.02 BOB CROWDER 37	2:02.82 HOWARD JAY 37
1:59.41 MATT STEVENS 33	1:50.54 BRIAN LINDEROTH 37	2:04.37 PATRICK DOYLE 38	2:03.78 MICHAEL HEATHER 39
100 YD. I.M. M E N 30-34	1:50.66 HOWARD JAY 37	2:04.60 VINCENT MORALES 36	2:05.31 MATTHEW KANZLER 36
50.98 DAVID LUNDBERG 91	500 YD. FREE M E N 35-39	50 YD. BRST M E N 35-39	100 YD. I.M. M E N 35-39
51.44 DAVID LUNDBERG 32	4:41.53 HESS YNTEMA 91	26.63 BRUCE HOWELL 92	54.11 MARK SCHUMAN 91
52.78 JOHN SMITH 31	4:56.05 SANDY MACDONALD 37	27.11 BRUCE HOWELL 36	54.81 KEN SHILLING 35
53.76 JOE REINHARDT 32	4:56.35 PAUL ASMUTH 35	27.83 CRAIG CONRAD 38	54.99 STU MARVIN 37
53.80 ROBERT PLACAK 34	4:58.16 STEVE BREITER 36	28.20 MIKE SLOWEY 35	55.26 CLAY EVANS 39
53.82 TOM VERDIN 31	5:00.02 LARRY WOOD 39	28.27 JOHN ROEMER 37	55.44 BRUCE HOWELL 36
53.88 JAMES LILLEY 33	5:00.49 JACK BURTON 36	28.40 JACK GROSELLE 38	56.25 TOM REUDY 38
54.54 PETER MCLAFFERTY 30	5:00.71 GARY QUINN 35	28.41 KEN SHILLING 35	56.65 DAVID ANDERSON 35
54.95 MIKAEL ORN 31	5:01.34 MARK HAHN 36	28.56 KARL KAZMAIER 37	56.89 JOHN ROEMER 37
55.20 BRAD HERING 31	5:02.02 JEFFERY C MILTON 36	28.61 RUSS MARSH 37	56.92 JACK GROSELLE 38
55.28 MICHAEL MAKARCZYK 33	5:02.82 DAVID SHEPHERD 37	28.74 RONALD SCHAFER 35	57.24 PAUL WINDRATH 39
200 YD. I.M. M E N 30-34	5:03.14 JIM STITES 35	28.97 MATTHEW KANZLER 36	57.49 BRYAN VOLPP 35
1:50.45 DAVID LUNDBERG 91	1000 YD. FREE M E N 35-39	100 YD. BRST M E N 35-39	200 YD. I.M. M E N 35-39
1:54.31 THOMAS FRISTOE 33	10:05.99 JIM MCCONICA 89	59.07 MARK SCHUMAN 91	1:57.44 MIKE DREWS 91
1:57.72 JEFF STILING 32	10:08.25 SANDY MACDONALD 37	59.68 BRUCE HOWELL 36	1:59.16 KEN SHILLING 35
1:58.00 GARY ANTONICK 30	10:14.04 PAUL ASMUTH 35	1:01.05 STUART CORLISS 37	2:01.13 STUART CORLISS 37
1:58.05 CAMERON REID 32	10:17.65 JACK BURTON 36	1:01.50 MIKE SLOWEY 35	2:01.25 CLAY EVANS 39
1:58.12 TOM VERDIN 31	10:19.03 STEVEN STRONG 38	1:01.67 KARL KAZMAIER 37	2:03.19 DAVID ANDERSON 35
1:58.41 JAY YARID 30	10:23.92 MATT CLARK 36	1:01.78 KEN SHILLING 35	2:03.61 TOM REUDY 38
1:59.54 MIKE KECK 33	10:24.47 LARRY WOOD 39	1:01.86 RONALD SCHAFER 35	2:04.48 SCOTT SHAKE 35
2:00.03 MICHAEL MAKARCZYK 33	10:28.33 JIM STITES 35	1:01.95 JOHN ROEMER 37	2:05.04 GARY QUINN 35
2:00.58 C.CAVANAIGH 30	10:30.62 NED MAGGIORA 38	1:02.76 MATTHEW KANZLER 36	2:05.54 TIMM REGAN 36
2:00.61 PETER MCLAFFERTY 30	10:30.89 JEFF MILTON 37	1:02.82 MARK SCHUMAN 37	2:06.46 LARRY WOOD 39
400 YD. I.M. M E N 30-34	10:35.71 SCOTT BEGIN 35	1:02.87 RUSS MARSH 37	2:06.63 STEPHEN LOWE 35
4:00.04 TOM FRISTOE 91	1650 YD. FREE M E N 35-39	200 YD. BRST M E N 35-39	400 YD. I.M. M E N 35-39
4:03.90 THOMAS FRISTOE 33	16:21.14 HESS YNTEMA 91	2:10.41 MARK SCHUMAN 91	4:15.20 HESS YNTEMA 91
4:06.25 DAVID LUNDBERG 32	16:59.16 HOWARD JAY 37	2:13.20 STUART CORLISS 37	4:16.15 KEN SHILLING 35
4:08.47 CAMERON REID 32	17:15.38 SCOTT SHAKE 35	2:13.38 JOHN ROEMER 37	4:20.61 STUART CORLISS 37
4:11.98 JEFF STILING 32	17:26.88 MARK HAHN 36	2:14.12 RONALD SCHAFER 35	4:25.14 CLAY EVANS 39
4:12.81 GARY ANTONICK 30	17:36.39 MICHAEL MCCAFFERY 39	2:14.58 MATTHEW KANZLER 36	4:27.41 SCOTT SHAKE 35
4:17.67 TOM VERDIN 31	17:42.95 TIM HARVEY 38	2:15.38 MIKE SLOWEY 35	4:28.55 MATTHEW CLARK 36
4:21.18 ROBERT HUDEK 30	17:56.64 NED MAGGIORA 38	2:15.45 TOM REUDY 38	4:29.61 BRYAN VOLPP 35
4:21.37 MIKE KECK 33	17:56.92 LARRY WOOD 39	2:16.81 CHARLES KEATING 37	4:29.99 PAUL ASMUTH 35
4:21.80 MICHAEL MAKARCZYK 33	17:58.77 ROB COPELAND 36	2:18.55 BRYAN VOLPP 35	4:30.04 MIKE SLOWEY 35
4:22.84 GERRY RODRIGUES 30	17:59.86 PAUL S. WISE 37	2:19.18 JOHN SHILLING 39	4:30.65 DAVID VANDAM 37
*****	18:03.42 STEVEN YOOD 35	2:19.47 JOHN EVERS 38	4:30.68 LARRY WOOD 39
50 YD. FREE M E N 35-39	50 YD. BACK M E N 35-39	50 YD. FLY M E N 35-39	*****
21.19 STU MARVIN 91	24.16 WILLIAM SPECHT 93	22.93 WILLIAM SPECHT 93	50 YD. FREE M E N 40-44
21.27 STU MARVIN 37	24.16 BILL SPECHT 35	22.93 WILLIAM SPECHT 35	21.72 WHATLEY/SHULMAN 93
21.76 CHARLES NORELLI 37	24.60 BOB JACKSON 36	23.94 ROBERT ABERSON 39	21.72 LAWRENCE SHULMAN 43
21.79 BOB CROWDER 37	25.47 STU MARVIN 37	23.95 BRUCE HOWELL 36	22.20 TOM WHATLEY 41
21.90 KIRK KOZLOWSKI 35	25.66 PAUL WINDRATH 39	23.97 CLAY EVANS 39	22.31 FRED HUBBELL 40
22.07 JACK GROSELLE 38	25.67 WILL ARTLEY 38	24.14 CHARLES NORELLI 37	22.58 JERRY HEIDENREICH 43
22.18 LANCE GORDON 36	25.71 DUNCAN PYLE 36	24.14 VEAR BRADLEY 37	22.76 WILLIE C WACHOB 40
22.24 PETER NUNAN 35	26.20 MARK LIST 36	24.23 BOB JACKSON 36	22.87 CRAIG SAINT-AMOUR 40
22.30 JAMES MONTGOMERY 38	26.36 LANCE GORDON 36	24.31 RICHARD HESS 38	22.87 C.MILTENBERGER 41
22.34 L.J. MEISENHEIMER 35	26.55 CLAY EVANS 39	24.51 SANDY MACDONALD 37	22.99 KURT GERHARDT 42
22.35 TIMOTHY MCGINNIS 35	26.65 THOMAS DAVIS 35	24.59 WILL ARTLEY 38	23.03 TIM BRODERICK 41
100 YD. FREE M E N 35-39	100 YD. BACK M E N 35-39	100 YD. FLY M E N 35-39	23.06 LEE MENCH 40
46.43 STU MARVIN 91	51.96 WILLIAM SPECHT 93	50.50 WILLIAM SPECHT 93	23.06 RICHARD PETERSON 41
47.31 STU MARVIN 37	51.96 BILL SPECHT 35	50.50 BILL SPECHT 35	100 YD. FREE M E N 40-44
47.86 CHARLES NORELLI 37	52.67 BOB JACKSON 36	52.75 CHARLES NORELLI 37	48.52 JAMES GRIFFITH 93
47.87 JAMES MONTGOMERY 38	55.33 STU MARVIN 37	53.11 SANDY MACDONALD 37	48.52 JAMES GRIFFITH 40
48.15 KIRK KOZLOWSKI 35	55.75 THOMAS DAVIS 35	53.47 CLAY EVANS 39	48.90 TIM BRODERICK 42
48.28 TIMOTHY MCGINNIS 35	55.84 MARK LIST 36	54.15 STUART CORLISS 37	48.99 TOM WHATLEY 41
48.62 JACK GROSELLE 38	55.93 SCOTT SHAKE 35	54.15 RICHARD HESS 38	49.82 C.MILTENBERGER 41
48.98 BOB CROWDER 37	55.97 PAUL WINDRATH 39	54.25 MICHAEL HEATHER 39	50.19 CRAIG SAINT-AMOUR 40
49.32 L.J. MEISENHEIMER 35	56.05 DUNCAN PYLE 36	54.38 VEAR BRADLEY 37	50.35 STEVE DEVEREL 41
49.32 MATTHEW CLARK 36	56.07 TIMM REGAN 36	54.39 KENT WESTPHAL 36	50.39 FRED HUBBELL 40
49.33 PETER NUNAN 35	56.21 BOB CROWDER 37	54.40 KERRY O'BRIEN 36	50.48 ROBERT ABERSON 40
200 YD. FREE M E N 35-39	200 YD. BACK M E N 35-39	200 YD. FLY M E N 35-39	50.77 WILLIE C WACHOB 40
1:42.78 JAMES MONTGOMERY 90	1:53.46 WILLIAM SPECHT 93	1:52.21 WILLIAM SPECHT 93	50.78 JOEL STAGER 40
1:43.12 STU MARVIN 37	1:53.46 WILLIAM SPECHT 35	1:52.17 WILLIAM SPECHT 35	200 YD. FREE M E N 40-44
1:46.19 JAMES MONTGOMERY 38	1:59.46 SCOTT SHAKE 35	2:00.55 KERRY O'BRIEN 36	1:47.17 TIM BRODERICK 93
1:48.76 KIRK KOZLOWSKI 35	2:01.06 CLAY EVANS 39	2:00.16 SANDY MACDONALD 37	1:47.17 TIM BRODERICK 42
1:49.02 BOB CROWDER 37	2:01.18 THOMAS DAVIS 35	2:01.94 DAVID VANDAM 37	1:49.05 JAMES GRIFFITH 40
1:49.13 LARRY WOOD 39	2:02.25 PAUL WINDRATH 39	2:02.07 KENT WESTPHAL 36	1:49.14 LEE MENCH 40
1:49.55 L.J. MEISENHEIMER 35	2:02.26 DUNCAN PYLE 36	2:02.34 JACK BURTON 36	1:51.40 EDWARD BROWN 40

TOP TEN SHORT COURSE YARDS

1:51.51 ROBERT STRAUSS 40	2:08.32 KURT MOEHLMANN 41	2:05.89 JEFF STRNAD 40	1:55.41 PAUL MCCORMICK 46
1:52.19 RANDY WILLIAMS 41	2:08.43 TIMOTHY HUESKEN 41	2:05.97 DONALD PETERSON 41	1:57.25 EDWARD CROSSMORE 45
1:53.23 KEVIN POLANSKY 43	2:08.56 STEVEN NELSON 40	2:07.96 JOEL WILSON 44	1:57.29 HUGH WILDER 45
1:55.41 STEVEN PYLE 42	2:08.59 WILLIAM DRAKE 40	2:10.73 ALAN BELL 43	1:57.85 THOMAS PEEK 45
1:55.73 JEFF STRNAD 40	2:09.96 B.RANSOM-NELSON 40	2:10.99 RICHARD HAAS 43	1:58.29 DANIEL ROGACKI 45
1:55.97 DAVID DRAKE 41	2:10.39 FRANK THOMPSON 41	2:11.55 RONALD KANE 40	1:58.37 JOHN FLANAGAN 47
500 YD. FREE M E N 40-44	50 YD. BRST M E N 40-44	100 YD. I.M. M E N 40-44	1:58.84 GREGORY GUSH 45
4:50.80 DAVID GRAY 87	27.45 C MILTENBERGER 92	55.59 TOM WHATLEY 92	500 YD. FREE M E N 45-49
4:50.93 TIM BRODERICK 42	27.79 C.MILTENBERGER 41	55.69 TOM WHATLEY 41	5:03.69 BOB MOMSEN 92
5:02.97 ROBERT STRAUSS 40	29.24 ARTHUR HALTTUNEN 42	56.41 C.MILTENBERGER 41	5:09.08 ANDREW MC PHERSON 45
5:04.62 EDWARD BROWN 40	29.27 RICHARD BOHAN 42	56.95 BRUCE MALLETTE 40	5:12.78 BOB MOMSEN 46
5:05.69 WILLIAM REEVES 40	29.51 TOM WHATLEY 41	57.12 JAMES GRIFFITH 40	5:13.54 TIM BIRNIE 47
5:07.25 RICK KLATT 42	29.59 RICHARD ENRIGHT 40	57.23 RICK COLELLA 41	5:14.17 EDWARD CROSSMORE 45
5:07.32 KEVIN POLANSKY 43	29.64 FRED HUBBELL 40	57.54 FRED HUBBELL 40	5:14.45 PAUL MCCORMICK 46
5:10.16 JEFF STRNAD 40	29.66 DAVE SAMUELSON 40	58.34 STEVEN HAUFLE 40	5:15.48 JOHN FLANAGAN 47
5:12.20 JOEL WILSON 44	29.81 BERRY HAMILTON 40	58.76 CRAIG SAINT-AMOUR 40	5:24.04 JOHN LINDLEY 46
5:16.03 STEVEN PYLE 42	29.92 RONALD A MARCIKIC 43	59.17 BERRY HAMILTON 40	5:25.53 JOHN SULTAN 45
5:17.09 FRANK THOMPSON 41	29.97 LEE MENCH 40	59.54 STEVE HECK 43	5:25.65 GAARD ARNESON 45
1000 YD. FREE M E N 40-44	100 YD. BRST M E N 40-44	200 YD. I.M. M E N 40-44	5:26.46 BILL DARBY 45
10:17.35 KEVIN POLANSKY 92	59.40 C MILTENBERGER 93	2:03.31 PETER O'KEEFE 91	1000 YD. FREE M E N 45-49
10:18.37 TIM BRODERICK 42	59.40 C.MILTENBERGER 41	2:03.75 BRUCE MALLETTE 40	10:43.60 EDWARD CROSSMORE 93
10:22.06 RANDY WILLIAMS 41	1:03.87 BERRY HAMILTON 40	2:07.24 WILLIAM REEVES 40	10:43.60 EDWARD CROSSMORE 45
10:29.11 EDWARD BROWN 40	1:04.51 GREG HARRISON 41	2:08.24 BERRY HAMILTON 40	10:51.78 ANDREW MC PHERSON 46
10:34.92 ROBERT STRAUSS 40	1:04.90 RICHARD ENRIGHT 40	2:08.89 STEVEN HAUFLE 40	10:53.59 JOHN FLANAGAN 47
10:44.57 RICK KLATT 42	1:05.47 STEVEN HAUFLE 40	2:09.34 DAVID KENYON 41	11:02.79 BOB ASQUITH 46
10:49.80 R. TOD SPIEKER 44	1:05.53 SCOTT SCHLIEMAN 41	2:10.77 ED PYLE 43	11:04.35 JOHN SULTAN 45
10:50.40 BILL PENN 41	1:06.20 WAYNE MCCAULEY 44	2:11.36 STEVE HECK 43	11:06.59 BILL DARBY 45
10:52.90 JEFF STRNAD 40	1:06.29 DAVE SAMUELSON 40	2:11.99 CHUCK FISCHER 41	11:07.43 STEPHEN JOHNSON 45
10:53.80 FRANK THOMPSON 41	1:06.36 ROBERT SCHMITZ 40	2:12.04 RANDY SCHLEGEL 40	11:29.37 JIM MANCHESTER 46
10:58.27 ROY GEAN 40	1:07.03 DAVID FRISCH 44	2:12.13 RICHARD ENRIGHT 40	11:33.23 BEN VAN DYK 48
1650 YD. FREE M E N 40-44	200 YD. BRST M E N 40-44	400 YD. I.M. M E N 40-44	11:34.19 E.RUDLOFF 45
17:02.40 KEVIN POLANSKY 90	2:12.85 RICK COLELLA 92	4:27.29 BRUCE MALLETTE 93	1650 YD. FREE M E N 45-49
17:34.62 KEVIN POLANSKY 43	2:14.67 RICK COLELLA 41	4:27.29 BRUCE MALLETTE 40	17:59.11 WILLIAM STEUART 83
17:49.33 WILLIAM REEVES 40	2:16.99 C.MILTENBERGER 41	4:29.00 JAMES GRIFFITH 40	18:50.94 BILL DARBY 45
17:56.97 JEFF STRNAD 40	2:18.83 GREG HARRISON 41	4:30.20 EDWARD BROWN 40	19:11.80 GAARD ARNESON 45
17:57.52 JOEL WILSON 44	2:20.66 RICHARD ENRIGHT 40	4:30.41 WILLIAM REEVES 40	19:12.54 MIKE GARIBALDI 47
18:17.92 RANDY WILLIAMS 41	2:22.00 RICHARD BOHAN 42	4:32.82 RICK COLELLA 41	19:15.72 JIM LAURIE 47
18:28.46 BRUCE JOHNSON 41	2:23.22 STEVEN HAUFLE 40	4:36.04 D.PETERSON 41	19:18.43 WILLIAM CERNY 45
18:40.19 R. TOD SPIEKER 44	2:23.89 BERRY HAMILTON 40	4:36.86 JOEL WILSON 44	19:29.63 JOHN LAWRENCE 46
18:42.28 FRANK THOMPSON 41	2:24.42 JOHN ROEMIG 42	4:36.91 DAVID KENYON 41	19:33.62 PATRICK HOWE 46
18:47.98 JOE DIETRICH 40	2:25.34 SCOTT SCHLIEMAN 41	4:36.94 ROBERT STRAUSS 40	20:00.00 RICHARD D BOYD 49
18:52.30 TOM EICHE 42	2:27.04 CHUCK FISCHER 41	4:37.05 STEVEN HAUFLE 40	20:14.33 BEN VAN DYK 48
50 YD. BACK M E N 40-44	50 YD. FLY M E N 40-44	*****	20:19.87 JAMES MERCHANT 46
25.61 JERRY HEIDENREICH91	23.63 DAN THOMPSON 91	50 YD. FREE M E N 45-49	50 YD. BACK M E N 45-49
26.17 WILLIAM DRAKE 40	24.36 BRUCE MALLETTE 40	21.87 RICHARD ABRAHAMS 90	25.65 ROBERT SMITH 88
26.42 BRUCE MALLETTE 40	24.38 JAMES GRIFFITH 40	22.21 THOMAS PEEK 45	26.48 ROBERT S SMITH 49
26.46 FRANK MENDOZA 41	24.55 STEVE DEVEREL 41	22.51 RICHARD ABRAHAMS 48	26.67 HUGH WILDER 45
26.98 TOM WHATLEY 41	24.62 FRED HUBBELL 40	22.64 ANDREW MCPHERSON 46	26.74 TIM BIRNIE 47
27.10 GARY HAFER 42	24.80 JERRY HEIDENREICH 43	22.85 DAN ROGACKI 45	26.76 VIRGIL DANIEL 45
27.32 WILLIAM TINGLEY 42	24.81 JOHN FOOTE 42	22.95 STEVE CLARK 49	27.13 DAN THOMPSON 46
27.47 JERRY HEIDENREICH 43	24.84 KEVIN MCCORMACK 40	23.00 BRYAN BATEMAN 45	27.20 ANDREW MC PHERSON 45
27.57 PETER O'KEEFE 42	25.08 TOM WHATLEY 41	23.14 ROBERT S SMITH 49	27.21 JOHN KETCHAM 45
27.61 MICHAEL STAMM 40	25.10 KURT GERHARDT 42	23.19 DON HAVENS 45	27.31 HENRY MECREDEY 46
27.64 R. TOD SPIEKER 44	25.26 CRAIG SAINT-AMOUR 40	23.31 MICHAEL SLENKER 46	27.41 JOHN PHILLIPS 46
100 YD. BACK M E N 40-44	100 YD. FLY M E N 40-44	23.38 RICHARD WOODROW 49	27.45 DAN ROGACKI 45
54.15 PETER O'KEEFE 91	53.77 JAMES GRIFFITH 93	100 YD. FREE M E N 45-49	100 YD. BACK M E N 45-49
56.50 WILLIAM DRAKE 40	53.77 JAMES GRIFFITH 40	48.13 ANDREW MCPHERSON 92	56.14 ROBERT SMITH 88
57.06 BRUCE MALLETTE 40	54.04 BRUCE MALLETTE 40	49.87 RICHARD ABRAHAMS 48	57.72 HUGH WILDER 45
57.65 FRANK MENDOZA 41	54.48 STEVE DEVEREL 41	49.90 ANDREW MC PHERSON 45	57.97 JOHN KETCHAM 45
58.52 KURT MOEHLMANN 41	55.11 FRED HUBBELL 40	50.32 BRYAN BATEMAN 45	58.17 TIM BIRNIE 47
59.06 R. TOD SPIEKER 44	55.87 STEVE BOSTER 42	50.88 THOMAS PEEK 45	58.93 JOHN PHILLIPS 46
59.25 GARY HAFER 42	56.70 KEVIN MCCORMACK 40	50.96 RICHARD WOODROW 49	59.99 DAN ROGACKI 45
59.26 TIMOTHY HUESKEN 41	56.84 CRAIG SAINT-AMOUR 40	51.67 DANIEL ROGACKI 45	1:00.09 DICK THOMAS 45
59.69 STEVEN NELSON 40	57.07 D.PETERSON 41	51.88 STEVE CLARK 49	1:00.52 ROBERT S SMITH 49
59.70 CHUCK WOLFF 41	57.09 JOHN MCCALL 40	51.94 DON HAVENS 45	1:00.89 RICHARD SIERS 48
59.91 BILL BARTHOLD 44	57.17 DONALD BACCI 40	52.17 HUGH WILDER 45	1:00.94 RICHARD BURNS 49
200 YD. BACK M E N 40-44	200 YD. FLY M E N 40-44	52.29 LYNN OLSON 46	1:01.28 JOHN CALVERT 47
2:01.54 PETER O'KEEFE 91	2:02.09 BOO GALLAS 90	200 YD. FREE M E N 45-49	200 YD. BACK M E N 45-49
2:05.93 BRUCE MALLETTE 40	2:03.02 RICK COLELLA 41	1:49.27 ANDREW MCPHERSON 92	2:05.50 JOHN CALVERT 92
2:07.01 R. TOD SPIEKER 44	2:03.50 EDWARD BROWN 40	1:50.16 ANDREW MCPHERSON 46	2:05.98 TIM BIRNIE 47
2:08.04 FRANK MENDOZA 41	2:04.02 WILLIAM REEVES 40	1:54.65 RICHARD WOODROW 49	2:08.45 JOHN KETCHAM 45
2:08.10 ROBERT STRAUSS 40	2:05.57 DAVID KENYON 41	1:55.24 TIM BIRNIE 47	2:08.64 JOHN CALVERT 47

TOP TEN SHORT COURSE YARDS

2:10.39 HUGH WILDER 45	2:10.64 JOHN FLANAGAN 47	1:56.81 EDWARD CAZALET 50	2:19.37 MIKE MACLEAN 52
2:13.06 BOB KOLONKOWSKI 45	2:14.06 BOB KOLONKOWSKI 45	1:58.97 JACK GEOGHEGAN 50	2:19.77 STEVEN THRASHER 51
2:14.04 JOHN PHILLIPS 46	2:14.52 JOHN SULTAN 45	2:01.12 DON MCINTOSH 50	2:20.10 ALLAN CARTWRIGHT 51
2:14.93 ANDREW MC PHERSON 46	2:18.09 LELAND FAUST 46	2:01.35 HENRY SOUTHALL 53	2:20.34 TEX HARASZTI 51
2:15.16 RICHARD BURNS 49	2:20.80 EDWARD RUDLOFF 45	2:01.45 ROBERT WILLIAMS 50	2:21.37 DON MCINTOSH 50
2:15.73 PAUL HEBERT 46	2:21.13 RICHARD WOODROW 49	2:01.95 ALLAN CARTWRIGHT 51	2:22.54 JACK GEOGHEGAN 51
2:15.88 DANIEL ROGACKI 45	2:21.70 FRED LEATHERMAN 45	2:02.56 TEX HARASZTI 51	2:22.67 RICHARD BASSI 52
50 YD. BRST M E N 45-49	2:21.76 DOUGLAS WALTHER 45	2:02.75 GAYLORD HOPKINS 51	2:25.85 TIM WEISBERG 50
28.32 RICHARD NESBIT 91	100 YD. I.M. M E N 45-49	2:07.14 STEVEN THRASHER 51	2:26.89 ERIC JENSEN 51
28.37 PAUL HENNE 46	56.23 ROBERT SMITH 88	500 YD. FREE M E N 50-54	50 YD. BRST M E N 50-54
29.23 ROBERT STRAND 47	58.36 DAN THOMPSON 46	5:13.80 EDWARD HINSHAW 90	29.70 MANUEL SANGUILY 84
29.57 DAN THOMPSON 46	58.77 ANDREW MC PHERSON 45	5:19.18 EDWARD CAZALET 50	30.08 ROBERT SMITH 50
29.80 DANIEL ROGACKI 45	58.96 ROBERT STRAND 47	5:21.32 SANDY GALLETLY 50	31.25 JACK MCCOY 52
30.23 PAUL MEMYHARTH 46	59.05 DAN ROGACKI 45	5:30.58 JACK GEOGHEGAN 51	31.97 DRURY GALLAGHER 54
30.42 ROBERT S SMITH 49	59.06 ROBERT S SMITH 49	5:30.82 TEX HARASZTI 51	32.44 JACK LANCE 50
30.58 CHRIS OSTROM 47	59.22 RICHARD ABRAHAMS 48	5:33.52 ROBERT WILLIAMS 50	32.47 JIM WHITE 50
30.70 GEORGE MARSHALL 45	59.38 THOMAS PEEK 45	5:35.00 GAYLORD HOPKINS 51	32.49 RANDY BANKS 50
30.71 GARY PARLAPIANO 46	59.93 BRUCE MOHL 47	5:39.01 HUGH WINN 51	32.69 MICHAEL LAUX 51
30.72 ANDREW MC PHERSON 45	59.98 BOO GRANER-GALLAS 45	5:42.08 STEVEN THRASHER 51	32.75 PETER MICHEL 50
100 YD. BRST M E N 45-49	59.98 JOHN SULTAN 45	5:43.67 HENRY SOUTHALL 53	33.09 WILLIAM GONZALES 50
1:02.48 MARTIN HULL 89	200 YD. I.M. M E N 45-49	5:43.82 DRURY GALLAGHER 54	33.37 DOUGLAS MARKUSIC 51
1:02.90 PAUL HENNE 46	2:03.82 ANDREW MCPHERSON 92	1000 YD. FREE M E N 50-54	100 YD. BRST M E N 50-54
1:04.19 ROBERT STRAND 47	2:10.72 JOHN CALVERT 47	11:00.03 EDWARD HINSHAW 87	1:05.29 MANUEL SANGUILY 84
1:05.72 DAN ROGACKI 45	2:10.72 JOHN CALVERT 47	11:07.93 EDWARD CAZALET 50	1:09.31 JACK MCCOY 52
1:06.36 BILL GRIFFITH 46	2:11.14 BRUCE MOHL 47	11:36.94 HUGH WINN 51	1:10.06 BEN FRANKLIN 51
1:07.14 GARY PARLAPIANO 46	2:11.24 DAN ROGACKI 45	11:38.16 JACK GEOGHEGAN 51	1:10.72 DRURY GALLAGHER 54
1:07.70 PETER OROSZLAN 49	2:11.78 JOHN SULTAN 45	11:45.67 TEX HARASZTI 51	1:10.77 MICHAEL LAUX 51
1:07.70 GEORGE MARSHALL 45	2:12.18 ROBERT STRAND 47	11:47.05 HENRY SOUTHALL 53	1:11.18 JACK LANCE 50
1:07.74 PAUL MEMYHARTH 46	2:15.21 BOB MOMSEN 46	11:50.12 STEVEN THRASHER 51	1:11.36 TEX HARASZTI 51
1:07.91 DAVE FRANK 49	2:17.00 CRAIG DENNIS 47	11:52.84 GAYLORD HOPKINS 51	1:12.36 PETER MICHEL 50
1:08.56 GEORGE WENDT 45	2:17.45 JAMES BEGLINGER 46	11:52.84 GAYLORD HOPKINS 51	1:12.41 WILLIAM GONZALES 50
200 YD. BRST M E N 45-49	2:17.63 VIRGIL DANIELS 45	12:57.38 ROBERT WILLIAMS 50	1:12.64 RANDY BANKS 50
2:18.37 ROBERT STRAND 93	2:18.41 JOHN LINDLEY 46	12:56.08 M.ROTHSCHILD 50	1:13.45 ROLAND CROTTIS 50
2:18.37 ROBERT STRAND 47	400 YD. I.M. M E N 45-49	12:37.97 ROGER BOSVELD 53	200 YD. BRST M E N 50-54
2:25.09 BILL GRIFFITH 46	4:31.40 TIMOTHY GARTON 88	1650 YD. FREE M E N 50-54	2:28.78 DRURY GALLAGHER 89
2:26.39 PAUL HENNE 46	4:40.93 BOO GRANER-GALLAS 45	18:28.45 SANDY GALLETLY 93	2:31.24 TEX HARASZTI 51
2:27.59 JOHN SULTAN 45	4:42.15 JOHN SULTAN 45	18:28.45 SANDY GALLETLY 50	2:35.05 JACK MCCOY 52
2:27.81 GEORGE WENDT 45	4:47.15 BOB ASQUITH 46	19:09.99 TEX HARASZTI 51	2:35.21 DRURY GALLAGHER 54
2:27.87 BRUCE MOHL 47	4:49.80 DAN ROGACKI 45	19:15.87 ROBERT WILLIAMS 50	2:36.08 MICHAEL LAUX 51
2:28.87 DAN ROGACKI 45	4:51.64 BOB KOLONKOWSKI 45	19:27.58 HUGH WINN 51	2:37.61 SANDY GALLETLY 50
2:29.88 BOB MOMSEN 46	4:54.66 GEORGE WENDT 45	20:02.68 ALLAN CARTWRIGHT 51	2:38.69 ALLAN CARTWRIGHT 51
2:30.33 GARY PARLAPIANO 46	4:56.36 JAMES BEGLINGER 46	20:12.66 STEVE THRASHER 51	2:38.99 THOMAS SPEAR 50
2:32.21 STEVE BARDEN 47	4:57.89 VIRGIL DANIELS 45	20:27.09 CHARLES RAVEN 54	2:43.21 MEL DYCK 51
50 YD. FLY M E N 45-49	5:00.92 GAARD ARNESON 45	20:37.95 HENRY SOUTHALL 53	2:43.60 PATRICK L SCHLUP 52
24.24 MARTIN HULL 89	5:01.95 HOP BAILEY 46	20:52.27 JOE WALKER 51	2:44.77 MICKEY OLSON 50
24.30 DAN THOMPSON 46	*****	21:09.01 ROGER BOSVELD 53	50 YD. FLY M E N 50-54
24.77 RICHARD ABRAHAMS 48	50 YD. FREE M E N 50-54	27.32 JOHN SMITH 91	25.50 MICHAEL MEALIFFE 91
25.03 THOMAS PEEK 45	22.84 ROBERT SMITH 93	26.24 ROBERT SMITH 50	25.83 JAMES ELDER 50
25.15 ANDREW MC PHERSON 45	22.84 ROBERT SMITH 50	27.53 FRANS NELSON 50	26.11 ROBERT SMITH 50
25.34 MICHAEL SLENKER 46	23.17 JAMES ELDER 50	28.60 JACK GEOGHEGAN 51	26.12 MICHAEL MEALIFFE 52
25.43 PHILIP RIKER 46	23.69 DON MCINTOSH 50	29.22 RICHARD BASSI 52	26.44 JIM WHITE 50
25.48 RICHARD WOODROW 49	23.98 FRANS NELSON 50	29.24 EDWARD CAZALET 50	26.51 RICHARD BASSI 52
25.63 DANIEL ROGACKI 45	24.09 JACK GEOGHEGAN 51	29.73 MIKE MACLEAN 52	26.68 ROBERT WILLIAMS 50
25.74 ROBERT S SMITH 49	24.13 JIM WHITE 50	30.35 BOB ROUNDS 51	26.76 JOHN FULOP 52
25.84 C.OSTROM 47	24.39 BRUCE CLARK 50	30.54 MICHAEL MEALIFFE 52	26.82 DON MCINTOSH 50
100 YD. FLY M E N 45-49	24.43 ROBERT WILLIAMS 50	30.62 STEVE KERN 50	27.45 DAVID GILLANDERS 53
54.27 MARTIN HULL 89	24.72 JOHN FULOP 52	30.76 JON HEIMANN 51	27.61 KENNETH NOVELL 50
54.77 ANDREW MCPHERSON 46	24.81 EDWARD CAZALET 50	100 YD. BACK M E N 50-54	100 YD. FLY M E N 50-54
55.52 RICHARD ABRAHAMS 48	100 YD. FREE M E N 50-54	59.49 ROBERT SMITH 93	57.34 TIMOTHY GARTON 93
55.86 BOO GRANER-GALLAS 45	51.32 TIMOTHY GARTON 90	59.49 ROBERT SMITH 50	57.34 TIMOTHY GARTON 50
57.87 MICHAEL SLENKER 46	51.32 TIMOTHY GARTON 50	1:02.62 FRANS NELSON 50	58.93 JAMES ELDER 50
58.03 JOHN LINDLEY 46	51.72 JAMES ELDER 50	1:02.64 EDWARD CAZALET 50	1:00.45 JACK GEOGHEGAN 51
58.14 THOMAS PEEK 45	52.64 JACK GEOGHEGAN 51	1:02.96 JACK GEOGHEGAN 51	1:00.53 MICHAEL MEALIFFE 52
58.32 JOHN FLANAGAN 47	53.22 EDWARD CAZALET 50	1:03.93 STEVEN THRASHER 51	1:00.57 RICHARD BASSI 52
58.37 PHILIP RIKER 46	53.65 ROBERT WILLIAMS 50	1:04.11 MIKE MACLEAN 52	1:00.80 DON MCINTOSH 50
58.40 RICHARD WOODROW 49	54.24 FRED PIGOTT 51	1:05.79 MICHAEL MEALIFFE 52	1:01.32 ALLAN CARTWRIGHT 51
58.79 DICK THOMAS 45	54.50 FRANS NELSON 50	1:06.10 ALLAN CARTWRIGHT 51	1:01.85 DAVID GILLANDERS 53
58.79 JOHN PHILLIPS 46	54.85 JACK LANCE 50	1:06.22 RICHARD BASSI 52	1:02.17 ROBERT WILLIAMS 50
200 YD. FLY M E N 45-49	55.12 HENRY SOUTHALL 53	1:07.37 HUGH RODDIN 51	1:02.89 MICHAEL LAUX 51
2:03.96 B GRANER-GALLAS 93	55.14 JIM WHITE 50	200 YD. BACK M E N 50-54	200 YD. FLY M E N 50-54
2:03.96 BOO GRANER-GALLAS 45	200 YD. FREE M E N 50-54	2:12.97 EDWARD CAZALET 93	2:13.71 JACK GEOGHEGAN 92
2:06.21 ANDREW MCPHERSON 46	1:53.42 TIMOTHY GARTON 93	2:12.97 EDWARD CAZALET 50	2:14.72 JACK GEOGHEGAN 51
	1:53.42 TIMOTHY GARTON 50		

TOP TEN SHORT COURSE YARDS

2:17.13 ALLAN CARTWRIGHT 51	2:01.63 JEFF FARRELL 56NV	2:24.65 JACK BEATTIE 58	2:21.48 ROBERT PROEBSTING 55
2:18.20 DON MCINTOSH 50	2:05.37 DAVID HARRISON 55	2:26.50 DON BROWN 59	2:33.67 ERNIE LESKOVITZ 56
2:20.65 SANDY GALLETTY 50	2:05.56 ROBERT PROEBSTING 55	2:28.56 LEWIS COOK 55	2:42.74 MIKE TSCHIRRET 57
2:23.72 ERIC SNYDER 50	2:08.67 ERNIE LESKOVITZ 56	2:30.72 TOM MACEDO 56	2:46.23 BARRY FASBENDER 55
2:24.03 MICHAEL LAUX 51	2:09.17 BOB BAILIE 57	2:32.54 LEE BETTIS 55	2:46.24 RICHARD HANLEY 56
2:26.01 JAMES ELDER 50	2:09.23 DAVID COSTILL 57	2:35.09 SHELDON MONSEIN 58	2:48.09 C.LEBOURGEOIS 59
2:32.05 DRURY GALLAGHER 54	2:13.40 MIKE TSCHIRRET 57	2:36.10 JACK HALLIDAY 56	2:49.52 DENNIS OBRIEN 57
2:33.08 DAVID GILLANDERS 53	2:13.97 SAM KOOSTRA 57	2:36.69 KENT PRICE 55	2:53.93 WILLIAM LAUER 58
2:35.37 TONY SILVESTRI 52	2:14.14 PETE MAGEE 55	2:37.71 BARR CLAYSON 57	2:56.42 PETE MAGEE 55
100 YD. I.M. M E N 50-54	2:14.26 C.LEBOURGEOIS 59	2:39.58 BILL EARLEY 56	2:56.74 STAN MORNER 58
58.15 TIMOTHY GARTON 93	500 YD. FREE M E N 55-59	50 YD. BRST M E N 55-59	100 YD. I.M. M E N 55-59
58.15 TIMOTHY GARTON 50	5:32.17 BURWELL JONES 88	30.18 MANUEL SANGUILY 89	1:01.70 JEFF FARRELL 93
58.44 ROBERT SMITH 50	5:37.36 DAVID HARRISON 55	31.58 JEFF FARRELL 56	1:01.70 JEFF FARRELL 56
1:01.29 JAMES ELDER 50	5:48.73 CLAUDE LEINEKE 59	32.01 DAVID DABOLL 56	1:04.76 DAVID COSTILL 57
1:02.57 EDWARD CAZALET 50	5:51.30 HENRY J. GLANCY 55	33.05 ROBERT JOHNSTON 56	1:06.58 WALLY DOBLER 59
1:02.63 JACK GEOGHEGAN 51	5:58.71 ERNIE LESKOVITZ 56	33.25 MILTON GEE 56	1:07.46 ROBERT PROEBSTING 55
1:02.81 FRANS NELSON 50	6:03.01 BILL STEUART 56	33.79 STAN MORNER 58	1:07.69 BOB BAILIE 57
1:03.41 TEX HARASZTI 51	6:07.16 C.LEBOURGEOIS 59	34.02 BOB PATTEN 58	1:07.97 LEWIS COOK 55
1:04.14 ROBERT WILLIAMS 50	6:13.47 KENT PRICE 55	34.10 JACK HALLIDAY 56	1:08.10 DON BROWN 59
1:04.59 JIM WHITE 50	6:15.60 KENNETH MILLER 55	34.64 RAY S. BURNS 57	1:08.32 JACK BEATTIE 58
1:04.82 ALLAN CARTWRIGHT 51	6:15.75 JIM KALAS 59	34.72 BARR CLAYSON 57	1:08.98 BILL EARLEY 56
200 YD. I.M. M E N 50-54	6:17.90 BUDDY BELSHE 59	34.82 STANLEY PANKO 55	1:09.57 DICK PETERSON 56
2:08.36 TIMOTHY GARTON 93	1000 YD. FREE M E N 55-59	100 YD. BRST M E N 55-59	200 YD. I.M. M E N 55-59
2:08.36 TIMOTHY GARTON 50	11:26.99 BURWELL JONES 90	1:06.93 MANUEL SANGUILY 89	2:17.88 BURWELL JONES 88
2:14.05 EDWARD CAZALET 50	11:52.12 DAVID HARRISON 55	1:10.45 DAVID DABOLL 56	2:26.10 DAVID COSTILL 57
2:16.09 TEX HARASZTI 51	12:13.75 DAVID COSTILL 57	1:13.44 BOB PATTEN 58	2:31.92 JACK BEATTIE 58
2:16.26 SANDY GALLETTY 50	12:14.36 ERNIE LESKOVITZ 56	1:14.07 ROBERT JOHNSTON 56	2:32.20 DONALD BROWN 59
2:18.13 ALLAN CARTWRIGHT 51	12:27.82 C.LEBOURGEOIS 59	1:14.15 JACK HALLIDAY 56	2:32.42 WALLY DOBLER 59
2:19.94 JACK GEOGHEGAN 51	12:29.73 BILL STEUART 56	1:14.76 DICK PETERSON 56	2:33.49 JACK HALLIDAY 56
2:24.11 MICHAEL LAUX 51	13:17.51 BUDDY BELSHE 59	1:14.88 MILTON GEE 56	2:33.71 ERNIE LESKOVITZ 56
2:24.54 DRURY GALLAGHER 54	13:26.56 JAMES JOHNSON 57	1:15.63 DAVID COSTILL 57	2:33.74 DICK PETERSON 56
2:27.72 JACK MCCOY 52	13:31.85 DAVID HAVEN 56	1:16.65 STAN MORNER 58	2:36.84 LEWIS COOK 55
2:27.90 ROBERT WILLIAMS 50	13:33.02 BARRY FASBENDER 55	1:17.00 RAY S. BURNS 57	2:36.86 PETE MAGEE 55
400 YD. I.M. M E N 50-54	13:33.40 JERRY CLARK 55	1:17.14 RAY BELLEM 56	2:37.98 C.LEBOURGEOIS 59
4:50.23 DRURY GALLAGHER 92	1650 YD. FREE M E N 55-59	200 YD. BRST M E N 55-59	400 YD. I.M. M E N 55-59
4:39.70 TIMOTHY GARTON 50NV	19:02.45 BURWELL JONES 88	2:34.15 MANUEL SANGUILY 89	5:03.44 BURWELL JONES 90
4:46.81 EDWARD CAZALET 50NV	19:55.20 DAVID HARRISON 55	2:42.25 DAVID DABOLL 56	5:20.76 DAVID COSTILL 57
4:48.32 SANDY GALLETTY 50NV	20:10.82 BILL STEUART 56	2:42.72 BOB PATTEN 58	5:25.48 ERNIE LESKOVITZ 56
4:54.28 ALLAN CARTWRIGHT 51	20:55.42 C.LEBOURGEOIS 59	2:43.07 JACK HALLIDAY 56	5:29.02 DON BROWN 59
4:57.54 JACK GEOGHEGAN 51	21:05.36 ERNIE LESKOVITZ 56	2:47.32 DAVID COSTILL 57	5:38.08 DAVID DABOLL 56
5:02.05 TEX HARASZTI 51	21:11.83 KENT PRICE 55	2:48.03 ROBERT JOHNSTON 56	5:41.64 C.LEBOURGEOIS 59
5:05.16 ROBERT WILLIAMS 50	21:43.93 BUDDY BELSHE 59	2:48.19 DICK PETERSON 56	5:43.86 JACK HALLIDAY 55
5:09.10 MICHAEL LAUX 51	22:33.81 BRIAN BROWNE 58	2:49.60 BARR CLAYSON 57	5:43.89 DICK PETERSON 56
5:09.34 DRURY GALLAGHER 54	22:43.00 JAMES JOHNSON 57	2:51.30 RAY BELLEM 56	5:44.17 BUDDY BELSHE 59
5:14.78 THOMAS SPEAR 50	22:47.33 RAY S. BURNS 57	2:51.40 MILTON GEE 56	5:45.00 BARRY FASBENDER 55
*****	22:50.20 BARRY FASBENDER 55	2:55.67 STAN MORNER 58	5:48.78 DENNIS OBRIEN 57
50 YD. FREE M E N 55-59	50 YD. BACK M E N 55-59	50 YD. FLY M E N 55-59	*****
23.41 DONALD HILL 87	28.15 YOSHI OYAKAWA 91	26.78 ROBERT PROEBSTING 93	50 YD. FREE M E N 60-64
23.75 JEFF FARRELL 56	30.24 JACK BEATTIE 58	26.58 ROBERT PROEBSTING 55NV	24.52 DONALD HILL 93
24.54 BOB BAILIE 57	30.58 BILL EARLEY 56	27.18 JEFF FARRELL 56	24.52 DONALD HILL 61
25.26 ROBERT PROEBSTING 55	30.63 DON BROWN 59	27.65 BOB BAILIE 57	26.31 CHARLES C BALDWIN 62
26.03 WALLY DOBLER 59	30.73 LEWIS COOK 55	28.83 WALLY DOBLER 58	26.47 BOB BEST 60
26.20 KENNETH MILLER 55	30.92 SHELDON MONSEIN 58	29.02 RICHARD HANLEY 56	26.80 RICHARD BENNETT 62
26.25 JERRY CLARK 55	31.18 BARR CLAYSON 57	29.37 BILL STEUART 56	27.11 DONALD SONIA 63
26.36 PETE MAGEE 55	31.50 RICHARD HAY 55	29.47 KENNETH MILLER 55	27.12 DICK WEBBER 63
26.39 ROBERT JOHNSTON 56	31.73 TOM MACEDO 56	29.57 DAVE DRUM 57	27.28 DICK BOWER 62
26.51 WILLIAM RADACK 55	32.07 MARSHALL GREER 56	29.64 WAYNE PICKERING 56	27.55 LARRY SHANNON 60
26.56 PETER TAFT 57	32.08 JOHN W GOODE 59	29.88 MIKE T. TSCHIRRET 57	27.62 HERB KERN 61
100 YD. FREE M E N 55-59	100 YD. BACK M E N 55-59	100 YD. FLY M E N 55-59	27.72 TOM LYNDON 61
52.59 DONALD HILL 87	1:02.56 YOSHI OYAKAWA 91	1:00.88 WALLY DOBLER 89	100 YD. FREE M E N 60-64
53.10 JEFF FARRELL 56	1:06.22 JACK BEATTIE 58	1:01.19 ROBERT PROEBSTING 55	54.49 DONALD HILL 93
54.35 BOB BAILIE 57	1:07.42 DON BROWN 59	1:04.36 JEFF FARRELL 56	54.49 DONALD HILL 61
56.09 ROBERT PROEBSTING 55	1:07.48 TOM MACEDO 56	1:04.40 WALLY DOBLER 59	59.13 RICHARD BENNETT 62
57.91 KENNETH MILLER 55	1:07.61 LEWIS COOK 55	1:04.61 ERNIE LESKOVITZ 56	1:00.31 CHARLES C BALDWIN 62
59.27 CLAUDE LEINEKE 59	1:09.48 LEE BETTIS 55	1:09.22 BILL STEUART 56	1:01.35 HERB KERN 61
59.37 PETER TAFT 57	1:09.54 BARR CLAYSON 57	1:09.57 BOB BAILIE 57	1:01.95 DONALD SONIA 63
59.72 PETE MAGEE 55	1:09.83 BILL EARLEY 56	1:09.60 MIKE TSCHIRRET 57	1:02.02 DICK BOWER 62
59.72 JACK BEATTIE 58	1:11.63 SHELDON MONSEIN 58	1:09.79 FOSTER DE JESUS 57	1:02.32 JOHN KORTHEUER 62
1:00.04 JERRY CLARK 55	1:12.64 YOSHI OYAKAWA 59	1:10.20 DENNIS OBRIEN 57	1:02.41 GRAHAM JOHNSTON 61
1:00.19 DAVID HARRISON 55	1:13.00 JOHN W GOODE 59	1:10.45 C.LEBOURGEOIS 59	1:02.66 JAMES PITTS 62
200 YD. FREE M E N 55-59	200 YD. BACK M E N 55-59	200 YD. FLY M E N 55-59	1:02.76 NORMAN SHELDON 62
2:02.93 BURWELL JONES 88	2:20.56 DON BROWN 91	2:21.48 ROBERT PROEBSTING 93	200 YD. FREE M E N 60-64

TOP TEN SHORT COURSE YARDS

2:07.53 PETER POWLISON 85	200 YD. BACK M E N 60-64	2:38.59 JOHN MASTERS 91	200 YD. FLY M E N 60-64	1:06.35 KEITH CARTER 68
2:08.72 GRAHAM JOHNSTON 62	2:28.45 RICHARD BENNETT 91	2:40.03 MANUEL SANGUILY 60		200 YD. FREE M E N 65-69
2:14.05 DONALD HILL 60	2:30.24 RICHARD BENNETT 62	2:51.48 CHARLES MOSS 64		2:10.80 PETER POWLISON 87
2:15.97 RICHARD BENNETT 62	2:44.05 KENNETH KIMBALL 62	2:52.44 HERB KERN 61		2:20.97 FRANK PIEMME 68
2:21.43 HERB KERN 61	2:45.19 STEVE HADLEY 61	2:57.40 JOHN MASTERS 62		2:22.92 ROGER FRANKS 66
2:21.95 JOHN COOPER 60	2:45.89 HORACE KNOWLTON 63	2:58.87 ROBERT KUENY 61		2:23.02 FRED TRASK 65
2:22.42 DICK BOWER 62	2:47.27 CLARKE MITCHELL 60	2:59.11 RON JOHNSON 61		2:23.53 WIN WILSON 66
2:23.16 FRED LEHMAN 61	2:47.40 STAN MC CONNELL 61	3:05.18 JOHN LENARD 61		2:23.60 ERIC YOUNGQUIST 65
2:23.32 JAMES PITTS 62	2:51.36 FORREST SULLIVAN 63	3:05.87 LARRY SHANNON 60		2:30.15 TED HAARTZ 65
2:23.36 DONALD SONIA 63	2:53.22 ARNIE GREEN 61	3:11.86 WILLIAM IRWIN 64		2:30.64 ROBERT S BLAKE 68
2:23.40 LARRY SHANNON 60	2:59.23 WILLIAM REEVE 61	3:14.43 ART TEBBENS 63		2:32.24 WILLIAM IRWIN 65
2:23.40 BOB HERITIER 64	2:59.46 BARNEY HUNGERFORD 60	100 YD. I.M. M E N 60-64		2:32.49 GEORGE ERSWELL 65
500 YD. FREE M E N 60-64	50 YD. BRST M E N 60-64	1:06.39 PAUL HUTINGER 86		2:33.71 BOB WHITE 65
5:38.17 GRAHAM JOHNSTON 91	31.34 MANUEL SANGUILY 93	1:07.85 BOB BEST 60		500 YD. FREE M E N 65-69
5:43.88 GRAHAM JOHNSTON 62	31.34 MANUEL SANGUILY 60	1:08.44 JOHN KORTHEUER 61		6:15.85 FRANK PIEMME 91
5:58.29 DONALD HILL 61	32.21 JOHN KORTHEUER 62	1:09.37 HERB KERN 61		6:19.28 ROGER FRANKS 66
6:20.93 JOHN COOPER 60	32.76 BOB BEST 60	1:09.40 CHARLES C BALDWIN 61		6:22.69 FRANK PIEMME 68
6:21.13 WAYNE LEENGRAN 61	33.49 AULIS KAHKONEN 62	1:11.60 RON JOHNSON 62		6:26.75 ERIC YOUNGQUIST 65
6:23.54 DAVE ANDERSON 61	33.74 THOMAS KOENIG 61	1:11.62 MANUEL SANGUILY 60		6:28.48 WIN WILSON 66
6:23.61 HERB KERN 61	34.13 CHARLES C BALDWIN 62	1:13.37 GRAHAM JOHNSTON 61		6:36.30 FRED TRASK 65
6:24.40 ARTHUR WELCH 60	34.59 AARON KURTZMAN 63	1:13.95 CHARLES MOSS 64		7:05.54 GEORGE ERSWELL 66
6:31.47 BOB HERITIER 64	35.39 CHARLES MOSS 64	1:14.65 CLARKE MITCHELL 60		7:05.98 W MORGAN BYERS 65
6:33.25 FRED LEHMAN 61	35.65 TOM TAYLOR 62	1:15.48 HORACE KNOWLTON 63		7:06.77 ROBERT S BLAKE 68
6:35.06 DENIS RICE 60	35.69 TED HAARTZ 64	200 YD. I.M. M E N 60-64		7:13.35 DON KORTEN 66
1000 YD. FREE M E N 60-64	100 YD. BRST M E N 60-64	2:29.46 GRAHAM JOHNSTON 93		7:14.54 LEE ARTH 68
11:51.48 GRAHAM JOHNSTON 91	1:10.08 MANUEL SANGUILY 93	2:29.46 GRAHAM JOHNSTON 62		1000 YD. FREE M E N 65-69
12:04.82 GRAHAM JOHNSTON 61	1:10.08 MANUEL SANGUILY 60	2:38.01 BOB BEST 60		13:00.78 ROGER FRANKS 93
13:15.94 ARTHUR WELCH 60	1:12.35 JOHN KORTHEUER 62	2:39.75 HERB KERN 61		13:00.78 ROGER FRANKS 66
13:31.36 JOHN COOPER 60	1:13.25 BOB BEST 60	2:40.20 JOHN KORTHEUER 61		13:26.56 ERIC YOUNGQUIST 65
13:31.63 HERB KERN 61	1:15.49 THOMAS H. KOENIG 60	2:44.32 CHARLES MOSS 64		13:43.40 FRANK PIEMME 68
13:47.56 DONALD SONIA 63	1:18.74 TAK ISERI 61	2:44.57 HORACE KNOWLTON 63		13:44.61 FRED TRASK 65
13:47.78 THOMAS TAYLOR 62	1:20.62 THOMAS TAYLOR 62	2:45.27 TOM REIGEL 63		14:40.60 W MORGAN BYERS 65
14:00.28 KENNETH KIMBALL 62	1:21.67 JOHN BLECK 60	2:48.10 ROBERT KUENY 61		14:43.01 LEE ARTH 68
14:04.46 C.H. KOHNKEN 61	1:21.95 LOU MCCOMAS 60	2:50.11 GORDON H GILLIN 61		14:51.35 ROBERT BLAKE 68
14:07.86 BARNEY HUNGERFORD 60	1:22.68 DAN GRUENDER 63	2:51.42 CLARKE MITCHELL 60		14:59.00 DON KORTEN 66
14:14.21 ROBERT KLAGES 61	1:22.91 JOHN H. VAN HORN 60	400 YD. I.M. M E N 60-64		15:17.64 BERNARD GUTTILIA 67
1650 YD. FREE M E N 60-64	200 YD. BRST M E N 60-64	5:21.45 GRAHAM JOHNSTON 93		15:18.84 WAYNE SHADBOLT 68
19:41.57 GRAHAM JOHNSTON 92	2:39.95 MANUEL SANGUILY 93	5:21.45 GRAHAM JOHNSTON 62		1650 YD. FREE M E N 65-69
19:48.84 GRAHAM JOHNSTON 62	2:39.95 MANUEL SANGUILY 60	5:46.06 HERB KERN 61		21:39.42 ROGER FRANKS 93
22:03.51 WAYNE LEENGRAN 61	2:44.31 JOHN KORTHEUER 62	5:51.20 CHARLES MOSS 64		21:39.42 ROGER FRANKS 66
22:14.20 ARTHUR C WELCH 60	2:45.06 BOB BEST 60	6:06.49 GORDON H GILLIN 61		22:22.64 ERIC YOUNGQUIST 65
22:30.73 THOMAS TAYLOR 62	2:52.60 TAK ISERI 61	6:07.29 HORACE KNOWLTON 63		22:29.37 BILL PHILLIPS 65
22:31.40 HERB KERN 61	3:00.69 TOM TAYLOR 62	6:07.31 JOHN MASTERS 62		22:51.84 FRED TRASK 65
22:47.22 DENIS RICE 60	3:00.89 NICK BERENYI 60	6:07.69 ROBERT KUENY 62		24:46.47 TED HAARTZ 65
23:17.07 STEPHEN MULLINS 60	3:01.51 HERB KERN 61	6:13.98 C.H. KOHNKEN 61		24:47.52 W MORGAN BYERS 65
23:28.11 BARNEY HUNGERFORD 60	3:01.96 MORRIS MATHEWS 64	6:15.70 JOHN LENARD 62		25:26.43 DONALD KORTEN 66
23:30.99 C.H. KOHNKEN 61	3:02.13 CHARLES MOSS 64	6:17.49 FRED BARTLETT 62		25:35.52 ROBERT S BLAKE 68
23:35.40 KEN KIMBALL 62	3:02.54 JOHN BLECK 60	*****		25:51.07 LOU SILVERSTEIN 66
50 YD. BACK M E N 60-64	50 YD. FLY M E N 60-64	50 YD. FREE M E N 65-69		26:17.55 GLYNN JONES 68
30.65 PAUL HUTINGER 85	28.50 PAUL HUTINGER 86	25.62 PETER POWLISON 87		50 YD. BACK M E N 65-69
31.88 RICHARD BENNETT 62	29.16 HERB KERN 61	26.56 FRANK PIEMME 68		31.26 PAUL HUTINGER 93
32.46 STEVE HADLEY 61	29.58 JOHN KORTHEUER 62	27.33 BOYD JOHNSON 65		31.26 PAUL HUTINGER 68
32.46 CLARKE MITCHELL 60	29.62 CHARLES C BALDWIN 62	27.77 PAUL HUTINGER 68		32.89 WILLIAM MARINO 65
33.02 AULIS KAHKONEN 62	30.30 BOB BEST 60	27.81 MILTON A SENS 66		33.94 ROGER FRANKS 66
33.44 DONALD HILL 61	30.52 LARRY SHANNON 60	28.14 AL CRAIG 65		34.04 GEORGE GANDSEY 69
33.47 RON JOHNSON 61	30.87 HAL BEGEL 63	28.25 KEITH CARTER 68		34.20 BOYD JOHNSON 65
33.89 HORACE KNOWLTON 63	31.09 MANUEL SANGUILY 60	28.25 WILLIAM IRWIN 65		34.48 FLOYD A ELIOTT 66
34.07 PETER VAN DIJK 64	31.13 RON JOHNSON 61	28.38 WIN WILSON 66		34.49 ELI GOLDFARB 67
34.27 KENNETH R KIMBALL 62	31.22 DONALD SONIA 63	28.54 ROBERT S BLAKE 68		35.04 FRANK PIEMME 68
34.29 FORREST SULLIVAN 63	31.79 DICK WEBBER 63	28.75 FRED TRASK 65		35.58 JOHN WOODS 69
100 YD. BACK M E N 60-64	100 YD. FLY M E N 60-64	100 YD. FREE M E N 65-69		35.97 GEORGE BRINTON 68
1:07.47 PAUL HUTINGER 85	1:06.31 JOHN KORTHEUER 91	56.24 PETER POWLISON 87		100 YD. BACK M E N 65-69
1:08.61 RICHARD BENNETT 62	1:08.75 MANUEL SANGUILY 60	57.32 FRANK PIEMME 68		1:10.07 ROGER FRANKS 93
1:11.01 STEPHEN MULLINS 60	1:10.82 JOHN KORTHEUER 62	1:01.64 WIN WILSON 66		1:10.07 ROGER FRANKS 66
1:12.69 STEVE HADLEY 61	1:12.43 RON JOHNSON 61	1:03.37 ERIC YOUNGQUIST 65		1:10.78 PAUL HUTINGER 68
1:13.33 HORACE KNOWLTON 63	1:12.63 HERB KERN 61	1:03.46 FRED TRASK 65		1:14.39 ELI GOLDFARB 67
1:13.75 CLARKE MITCHELL 60	1:13.55 LARRY SHANNON 60	1:04.76 AL CRAIG 65		1:14.50 FLOYD A ELIOTT 66
1:14.94 KENNETH R KIMBALL 62	1:14.99 CHARLES MOSS 64	1:04.78 TED HAARTZ 65		1:18.77 GEORGE GANDSEY 69
1:15.33 RON JOHNSON 61	1:16.24 JOHN MASTERS 62	1:05.13 WILLIAM IRWIN 65		1:18.92 GEORGE BRINTON 68
1:15.70 STANLEY MCCONNELL 61	1:18.87 ARTHUR WELCH 60	1:05.21 ROBERT S BLAKE 68		1:19.45 BOYD JOHNSON 65
1:16.03 PETER VAN DIJK 64	1:19.62 ROBERT KUENY 62	1:05.22 MILTON A SENS 66		1:20.01 WILLIAM HAYNES 66
1:16.23 HAROLD BEGEL 62	1:19.88 GORDON GILLIN 62			1:20.11 FRANK PIEMME 68

TOP TEN SHORT COURSE YARDS

1:21.70 RALPH JR. PERRY 66	1:28.44 ERIC YOUNGQUIST 65	1:09.37 RAYMOND TAFT 73	1:31.22 RAY HAKOMAKI 72
200 YD. BACK M E N 65-69	200 YD. FLY M E N 65-69	1:09.38 HENRY HEINICHEN 71	1:31.30 E.W. SCHOFIELD 70
2:30.53 ROGER FRANKS 93	2:41.99 CHARLES MOSS 93	200 YD. FREE M E N 70-74	200 YD. BACK M E N 70-74
2:30.53 ROGER FRANKS 66	2:41.99 CHARLES MOSS 65	2:24.72 KELLEY LEMMON 82	2:50.06 RAY TAFT 93
2:38.33 PAUL HUTINGER 68	2:49.35 JOSEPH KURTZMAN 66	2:29.16 JOHN RICHARDS 70	2:50.06 RAY TAFT 73
2:42.25 ELI GOLDFARB 67	3:06.31 ROGER FRANKS 66	2:29.75 JURGEN SCHMIDT 70	2:52.07 JACK MCCANN 71
2:49.84 FLOYD A ELIOTT 66	3:11.95 KEITH E. CARTER 68	2:35.41 RAYMOND TAFT 73	3:06.96 ROGERS B. HOLMES 71
2:58.06 WILLIAM HAYNES 66	3:16.75 ERIC YOUNGQUIST 65	2:35.88 JACK MCCANN 71	3:11.69 GAETANO PAVONE 70
2:59.81 BOB WHITE 65	3:19.54 G.RUDLOFF 69	2:39.32 JOHN FLORANCE 70	3:15.52 HARRY LIBER 74
3:00.33 ERIC YOUNGQUIST 65	3:20.82 ART KELLY 67	2:40.21 STEVE CARLSON 73	3:18.43 ALDO DA ROSA 74
3:01.67 GEORGE BRINTON 68	3:22.12 MILTON BRIER 67	2:40.76 JOHN PATTEN 71	3:18.58 JIM EDWARDS 70
3:03.16 RALPH JR. PERRY 66	3:33.02 ROBERT CUNNINGHAM 65	2:42.46 FRED TAIOLI 72	3:20.34 TOM JACKSON 72
3:05.24 LOU SILVERSTEIN 66	3:40.62 LOU SILVERSTEIN 66	2:45.47 WALT LINDSTROM 70	3:21.07 RAY HAKOMAKI 72
50 YD. BRST M E N 65-69	100 YD. I.M. M E N 65-69	2:46.33 JIM EDWARDS 70	3:23.64 JOHN BRICKER 72
33.24 JOSEPH KURTZMAN 91	1:06.74 PETER POWLISON 87	500 YD. FREE M E N 70-74	50 YD. BRST M E N 70-74
33.89 BENNY ABRUZZO 66	1:10.35 FRANK PIEMME 68	6:52.21 FRED TAIOLI 91	36.17 PAUL KRUP 89
34.30 JOESPH KURTZMAN 67	1:11.39 PAUL HUTINGER 68	6:56.14 JURGEN SCHMIDT 70	36.70 JOHN RICHARDS 70
34.93 DONALD HESTER 66	1:11.97 CHARLES MOSS 65	7:07.88 FRED TAIOLI 72	37.82 TOM DOWELL 70
35.56 TED HAARTZ 65	1:13.43 TED HAARTZ 65	7:22.57 STEVE CARLSON 73	39.29 BIRCH DAVIDSON 74
35.77 BARTON GREENBERG 68	1:14.42 FRED LEIPZIGER 65	7:24.19 RAYMOND TAFT 73	40.09 ROGERS B. HOLMES 71
36.43 FRED LEIPZIGER 65	1:15.05 ROGER FRANKS 66	7:25.45 JIM EDWARDS 70	40.24 BOB MERRICK 72
36.93 PAUL HUTINGER 68	1:16.34 KEITH E. CARTER 68	7:27.77 JOHN PATTEN 71	40.28 JOHN FLORANCE 70
37.52 FRANK PIEMME 68	1:16.40 WILLIAM IRWIN 65	7:34.03 DAN MILES 71	40.58 RALPH BROUK 74
37.53 ARNIE FORMO 66	1:16.48 AL CRAIG 65	7:42.03 RICHARD SMITH 72	40.65 GEORGE MELICK 71
37.75 GEORGE MCVEY 65	1:16.94 WIN WILSON 66	7:42.14 ALDO DA ROSA 74	41.20 ABRASHA BRAININ 70
100 YD. BRST M E N 65-69	200 YD. I.M. M E N 65-69	7:47.55 GILBERT N YOUNG 70	41.55 RAY HAKOMAKI 72
1:17.34 JOSEPH KURTZMAN 91	2:35.07 CHARLES MOSS 93	1000 YD. FREE M E N 70-74	100 YD. BRST M E N 70-74
1:17.40 TED HAARTZ 65	2:35.07 CHARLES MOSS 65	14:15.81 FRED TAIOLI 91	1:21.03 ALDO DA ROSA 88
1:17.71 DONALD HESTER 66	2:39.10 ROGER FRANKS 66	14:16.87 JURGEN SCHMIDT 70	1:21.45 JOHN RICHARDS 70
1:21.05 FRED LEIPZIGER 65	2:39.21 FRANK PIEMME 68	14:54.16 FRED TAIOLI 72	1:28.62 BOB MERRICK 72
1:21.36 JOE KURTZMAN 66	2:45.28 PAUL HUTINGER 68	15:05.25 RAYMOND TAFT 73	1:29.91 TOM DOWELL 70
1:21.71 BARTON GREENBERG 68	2:49.40 WIN WILSON 66	15:19.04 STEVE CARLSON 73	1:31.64 ALDO DA ROSA 74
1:22.41 AL CRAIG 65	2:49.73 AL CRAIG 65	15:37.08 JOHN PATTEN 71	1:32.82 RAY HAKOMAKI 72
1:22.86 PAUL HUTINGER 68	2:53.80 LUMAN SUTTON 66	15:53.41 GILBERT N YOUNG 70	1:33.06 GEORGE MELICK 71
1:24.58 LEE MIESEN 66	2:53.87 ERIC YOUNGQUIST 65	15:61.72 BUD JACKSON 73	1:33.48 ABRASHA BRAININ 70
1:24.66 ARNIE FORMO 66	3:02.07 LEE ARTH 68	16:02.99 JIM EDWARDS 70	1:35.41 BEACH SCHULTZ 71
1:25.03 E.RUDLOFF 69	3:03.13 DON KORTEN 66	16:07.06 BOB MERRICK 72	1:35.45 ANDREW HOLDEN 73
200 YD. BRST M E N 65-69	400 YD. I.M. M E N 65-69	16:37.48 BOB ACKER 71	1:37.38 CECIL HULL 71
2:53.27 TED HAARTZ 93	5:34.61 CHARLES MOSS 93	1650 YD. FREE M E N 70-74	200 YD. BRST M E N 70-74
2:53.27 TED HAARTZ 65	5:34.61 CHARLES MOSS 65	23:44.48 ALDO DA ROSA 88	3:03.29 ALDO DA ROSA 88
2:59.03 CHARLES MOSS 65	5:40.39 ROGER FRANKS 66	24:26.26 JURGEN SCHMIDT 70	3:16.94 BOB MERRICK 72
3:00.70 DONALD HESTER 66	6:02.88 ERIC YOUNGQUIST 65	24:31.76 FRED TAIOLI 72	3:26.56 RAY HAKOMAKI 72
3:00.87 FRED LEIPZIGER 65	6:09.21 FRANK PIEMME 68	25:17.87 RAYMOND TAFT 73	3:34.15 ABRASHA BRAININ 70
3:02.43 BARTON GREENBERG 68	6:17.60 PAUL HUTINGER 68	25:30.05 HENRY HEINICHEN 71	3:36.79 GEORGE HUBBELL 73
3:03.98 PAUL HUTINGER 68	6:23.27 LUMAN SUTTON 66	26:20.34 BIRCH DAVIDSON 74	3:37.91 RICHARD L. AVERY 70
3:08.24 ERIC YOUNGQUIST 65	6:29.48 LEE ARTH 67	26:21.10 ALDO DA ROSA 74	3:38.44 JURGEN SCHMIDT 70
3:10.28 E.RUDLOFF 69	6:34.73 DONALD KORTEN 66	26:24.66 HERB MCAULEY 70	3:39.57 EARL WALTER 71
3:11.04 ARNIE FORMO 66	6:35.20 G.RUDLOFF 69	26:25.59 JIM EDWARDS 70	3:40.69 WILLIAM BROCK 70
3:11.18 JOE KURTZMAN 66	6:37.78 KEITH CARTER 68	26:29.24 DAN MILES 71	3:41.05 TOM MC CALL 70
50 YD. FLY M E N 65-69	*****	26:38.20 GILBERT YOUNG 71	3:42.37 TOM DOWELL 71
29.42 FRANK PIEMME 91	50 YD. FREE M E N 70-74	50 YD. BACK M E N 70-74	50 YD. FLY M E N 70-74
29.79 PAUL HUTINGER 68	27.45 KELLEY LEMMON 82	34.33 JACK MCCANN 92	31.95 BIRCH DAVIDSON 89
30.93 FRANK PIEMME 68	28.08 JOHN FLORANCE 70	34.13 RAY TAFT 73NV	32.98 ROGERS B. HOLMES 71
31.12 WINTHROP WILSON 66	28.72 DONALD AGATE 71	35.17 JACK MCCANN 71	33.10 JURGEN SCHMIDT 70
32.04 JOSEPH KURTZMAN 67	28.98 JOHN RICHARDS 70	36.46 ANDREW W HOLDEN 73	33.21 ANDREW W HOLDEN 73
32.39 KEITH E. CARTER 68	29.08 RAY HAKOMAKI 72	36.59 DON BARTLETT 70	34.00 HERB MCAULEY 70
32.61 BOYD JOHNSON 65	29.12 ANDREW W HOLDEN 73	36.72 ROGERS B. HOLMES 71	34.87 BIRCH DAVIDSON 74
32.66 DONALD HUBBARD 66	29.18 DICK LOIZEAUX 73	36.75 ROBERT JR. PREBLE 70	35.00 RAYMOND TAFT 73
32.71 WILLIAM IRWIN 65	29.30 JURGEN SCHMIDT 70	36.85 JOHN DILLEY 72	35.99 JOHN RICHARDS 70
33.08 LUMAN SUTTON 66	29.53 HERB MCAULEY 70	37.82 BILL MOLVIE 74	37.47 TOM DOWELL 71
34.40 DONALD HESTER 66	29.93 ROBERT SCOLES 71	38.22 BOB MERRICK 72	38.18 CECIL HULL 71
100 YD. FLY M E N 65-69	29.96 RICHARD KENNEDY 71	38.31 DONALD AGATE 71	38.73 ROBERT SCOLES 71
1:09.77 JOSEPH KURTZMAN 91	100 YD. FREE M E N 70-74	100 YD. BACK M E N 70-74	100 YD. FLY M E N 70-74
1:10.86 WIN WILSON 66	1:01.22 KELLEY LEMMON 84	1:15.70 JOHN DILLEY 91	1:18.88 ANDREW HOLDEN 90
1:12.01 CHARLES MOSS 65	1:05.65 JOHN RICHARDS 70	1:17.51 RAYMOND TAFT 73	1:24.24 ANDREW HOLDEN 73
1:14.15 JOSEPH KURTZMAN 67	1:05.89 JOHN FLORANCE 70	1:19.31 JACK MCCANN 71	1:30.44 DAN MILES 71
1:16.24 WILLIAM IRWIN 65	1:06.44 DONALD AGATE 71	1:20.95 ANDREW W HOLDEN 73	1:33.30 RAYMOND TAFT 73
1:17.08 KEITH CARTER 68	1:06.67 ANDREW W HOLDEN 73	1:24.83 JOHN DILLEY 72	1:34.41 EARL WALTER 71
1:19.84 ROGER FRANKS 66	1:07.07 HERB MCAULEY 70	1:26.17 GAETANO PAVONE 70	1:36.89 WILLIAM STADIG 70
1:22.83 MILTON BRIER 65	1:07.76 JAY CRADDOCK 72	1:28.32 BILL MOLVIE 74	1:37.09 RICHARD SMITH 73
1:24.65 LUMAN SUTTON 66	1:08.13 JACK MCCANN 71	1:28.46 HARRY LIBER 74	1:41.89 ALDO DA ROSA 74
1:25.86 DON HUBBARD 65	1:09.10 JURGEN SCHMIDT 70	1:31.20 EDWARD JOHNSON 74	1:44.99 WALLACE SAWHILL 73

TOP TEN SHORT COURSE YARDS

1:46.28 CLARENCE WEBB 70	1:16.42 ROY MORSE 76	1:33.15 BRION WINSHIP 75	3:32.28 MEL W ANDERSON 75
1:46.28 HERB MCAULEY 70	1:16.56 FRITZ McDUFFIE 75	1:34.92 JOHN WHITE 76	200 YD. FLY M E N 75-79
200 YD. FLY M E N 70-74	1:16.57 BARNET PHILLIPS 75	1:37.59 BILL EIBL 75	3:17.53 ANTON CERER 92
2:58.78 ANTON CERER 87	200 YD. FREE M E N 75-79	200 YD. BACK M E N 75-79	3:28.58 PAUL KRUP 75
3:29.89 DAN MILES 71	2:30.58 KELLEY LEMMON 88	3:02.98 EDWARD SHEA 92	4:32.06 NELSON OTIS 77
3:33.44 WILLIAM STADIG 70	2:41.62 ALDO DA ROSA 75	3:04.96 EDWARD SHEA 78	6:38.69 JOE D RUDDLEY 78
3:46.82 EARL WALTER 71	2:47.42 NORRIS FLUKE 76	3:06.56 JOHN MERILL 76	100 YD. I.M. M E N 75-79
4:17.68 JACK BURGAN 70	2:50.53 EDWARD MORAN 75	3:07.53 NORRIS FLUKE 76	1:16.57 KELLEY LEMMON 87
4:23.17 HERB MCAULEY 70	2:52.42 ROBERT JOHNSTON 75	3:08.29 EDWARD MORAN 75	1:22.26 ALDO DA ROSA 75
4:34.18 BERTIL SANDQUIST 72	2:53.45 JERRY R SIEFERT 75	3:11.85 ALBERT VANDEWEGHE 76	1:26.58 A.WEGHE 76
4:46.20 WILLIAM JOHNSTON 74	2:55.32 LYNN SURLS 75	3:16.46 ALDO DA ROSA 75	1:26.61 PAUL KRUP 75
4:58.86 HERMAN FOREST 72	2:56.88 GUS CLEMENS 75	3:22.68 BRION WINSHIP 75	1:28.65 NORRIS FLUKE 75
5:56.02 ROBERT HALL 71	2:59.20 ROBERT KNAPP 76	3:31.50 JOHN WHITE 76	1:31.66 ROGER CHAMBERLAIN 75
6:00.18 FRANK SCHURR 71	2:59.98 ROY MORSE 76	3:38.57 ROGER CHAMBERLAIN 75	1:34.40 JERRY R SIEFERT 75
100 YD. I.M. M E N 70-74	3:01.59 OBEL JAMES 78	3:40.68 BILL EIBL 75	1:35.22 EDWIN WOLPAW 77
1:13.66 RAYMOND TAFT 89	500 YD. FREE M E N 75-79	50 YD. BRST M E N 75-79	1:36.52 CLIFF CROOME 75
1:15.89 JOHN RICHARDS 70	7:12.60 ALDO DA ROSA 93	37.59 PAUL KRUP 93	1:37.36 R JOHNSON 75
1:16.94 RAY TAFT 73	7:12.60 ALDO DA ROSA 75	37.59 PAUL KRUP 75	1:37.63 GEORGE L. RAFTER 76
1:17.58 ANDREW W HOLDEN 73	7:34.25 NORRIS FLUKE 75	38.94 ALDO DA ROSA 75	200 YD. I.M. M E N 75-79
1:20.78 ROGERS B. HOLMES 71	7:41.58 EDWARD MORAN 75	40.26 A.WEGHE 76	2:58.90 KELLEY LEMMON 87
1:21.05 JOHN FLORANCE 70	7:56.89 ROBERT JOHNSTON 75	42.18 RUSS WITTE 76	3:04.72 ALDO DA ROSA 75
1:21.20 BIRCH DAVIDSON 74	8:03.19 JERRY R SIEFERT 75	42.37 R.CHAMBERLAIN 75	3:15.50 NORRIS FLUKE 75
1:22.57 JURGEN SCHMIDT 70	8:03.40 LYNN SURLS 75	43.45 JOHN BROUK 75	3:16.08 ANTON CERER 76
1:24.37 BOB MERRICK 72	8:05.08 OBEL JAMES 78	43.98 MURRAY EAGER 76	3:17.77 PAUL KRUP 75
1:24.80 ROBERT SCOLES 71	8:09.27 GUS CLEMENS 75	44.33 JERRY EVERALL 78	3:31.54 ROGER CHAMBERLAIN 75
1:25.06 RAY HAKOMAKI 72	8:15.77 ROY MORSE 76	44.56 CAL SCHAEFFER 75	3:40.62 GEORGE RAFTER 76
200 YD. I.M. M E N 70-74	8:16.77 DEXTER WOODFORD 79	44.61 MIKE OFFNER 78	3:47.73 DICK WESTERFIELD 78
2:47.68 BIRCH DAVIDSON 89	1000 YD. FREE M E N 75-79	100 YD. BRST M E N 75-79	3:52.43 NELSON OTIS 77
2:58.04 RAY TAFT 73	14:37.47 ALDO DA ROSA 93	1:25.80 ALDO DA ROSA 93	3:54.16 JACK MATTINGLY 78
2:59.65 JURGEN SCHMIDT 70	14:37.47 ALDO DA ROSA 75	1:25.80 ALDO DA ROSA 75	4:03.38 WILLIAM GRANT JR 79
3:10.10 DAN MILES 71	16:02.41 NORRIS FLUKE 75	1:28.88 PAUL KRUP 75	400 YD. I.M. M E N 75-79
3:12.84 BIRCH DAVIDSON 74	16:03.41 EDWARD MORAN 75	1:35.97 RUSS WITTE 76	6:36.29 ALDO DA ROSA 93
3:15.55 EARL WALTER 71	16:06.94 ROBERT JOHNSTON 75	1:38.84 R.CHAMBERLAIN 75	6:36.29 ALDO DA ROSA 75
3:16.08 ALDO DA ROSA 74	16:44.85 LYNN SURLS 75	1:40.94 MIKE OFFNER 78	7:00.15 ANTON CERER 76
3:16.93 BOB MERRICK 72	17:00.27 HARRY BARTLETT 77	1:41.34 NORRIS FLUKE 75	7:00.85 NORRIS FLUKE 76
3:21.64 WILLIAM STADIG 70	17:06.08 ROY MORSE 76	1:43.87 JERRY EVERALL 78	7:02.96 PAUL KRUP 75
3:22.61 ROBERT WRIGHT 72	17:06.22 JOHN MERRILL 76	1:44.54 JO PAUL STEINER 76	8:00.88 CLIFF CROOME 75
3:27.55 RICHARD SMITH 72	17:09.96 RICHARD GUIDO 75	1:46.27 CLIFF CROOME 75	8:07.92 ROGER CHAMBERLAIN 75
400 YD. I.M. M E N 70-74	17:17.26 JOHN WOODS 75	1:46.36 JOHN LEVETT 76	8:15.97 NELSON OTIS 77
6:14.18 BIRCH DAVIDSON 89	1650 YD. FREE M E N 75-79	200 YD. BRST M E N 75-79	8:44.62 ROBERT STEEL 75
6:21.92 RAY TAFT 73	24:48.25 ALDO DA ROSA 93	3:13.37 ALDO DA ROSA 93	9:05.90 N.H. SKJERSAA 76
6:48.24 DAN MILES 71	24:48.25 ALDO DA ROSA 75	3:13.37 ALDO DA ROSA 75	9:05.92 WILLIAM GRANT JR 79
6:59.58 BIRCH DAVIDSON 74	26:20.91 NORRIS FLUKE 75	3:27.27 PAUL KRUP 75	*****
7:12.63 WILLIAM STADIG 70	26:25.96 EDWARD MORAN 75	3:39.45 NORRIS FLUKE 75	50 YD. FREE M E N 80-84
7:18.17 EARL WALTER 71	27:14.86 ROBERT JOHNSTON 76	3:40.47 RUSS WITTE 76	32.10 KELLEY LEMMON 92
7:19.10 RICHARD SMITH 72	27:47.64 BARNET PHILLIPS 75	3:46.00 MIKE OFFNER 78	34.76 GERSON SOBEL 82
7:55.23 BOB ACKER 71	28:07.60 JOHN MERILL 76	3:49.28 ROGER CHAMBERLAIN 75	37.71 DAN DOTTERWEICH 84
7:57.70 HERB MCAULEY 70	29:00.76 N.H. SKJERSAA 77	3:54.66 JERRY EVERALL 78	37.91 FRANK BELLAIRE 83
8:05.20 CLARENCE WEBB 70	29:44.54 JOHN WOODS 75	3:58.18 FRITZ McDUFFIE 75	38.09 JOHN GLENN 81
8:10.12 JACK BURGAN 70	31:18.79 WOODY BOWERSOCK 79	3:59.09 JOHN LEVETT 76	38.53 JESSE COON 82
*****	31:24.76 GENE CROSSETT 79	3:59.64 JOHN BROUK 75	39.45 ALLAN SACHS 80
50 YD. FREE M E N 75-79	50 YD. BACK M E N 75-79	50 YD. FLY M E N 75-79	39.57 C.B SUNDERLAND 83
28.73 KELLEY LEMMON 87	37.10 EDWARD SHEA 91	35.44 KELLEY LEMMON 87	39.69 HERBERT HOWE 80
30.27 WOODROW BOWERSOCK 79	38.11 WILLIAM ROWE 76	36.28 PAUL KRUP 75	39.76 BERT KASSELL 80
31.22 OBEL JAMES 78	38.44 EDWARD SHEA 78	39.04 ROBERT KNAPP 76	40.15 DAVID MCAFFEE 83
31.70 HARRY CLASS 77	38.54 ROBERT KNAPP 76	39.29 A.WEGHE 76	100 YD. FREE M E N 80-84
31.72 LYNN SURLS 75	38.66 JOHN MERRILL 76	40.64 ALDO DA ROSA 75	1:17.82 GERSON SOBEL 90
31.75 ALDO DA ROSA 75	38.98 A.WEGHE 76	42.48 CAL SCHAEFFER 75	1:20.39 GERSON SOBEL 82
31.80 JERRY R SIEFERT 75	39.22 NORRIS FLUKE 75	43.10 EDWIN WOLPAW 77	1:24.93 HERBERT HOWE 80
31.81 BARNET PHILLIPS 75	39.52 ALDO DA ROSA 75	43.25 NORRIS FLUKE 75	1:30.20 DAVID MCAFFEE 83
31.87 ALBERT VANDEWEGHE 76	39.53 EDWARD MORAN 75	43.30 CLIFF CROOME 75	1:30.93 ALLAN SACHS 80
32.17 GUS CLEMENS 75	41.20 BRION WINSHIP 75	43.33 WILLIAM GRANT JR 79	1:31.07 C.B SUNDERLAND 83
32.50 ROY MORSE 76	41.40 HARRY CLASS 77	44.03 DICK GUIDO 75	1:31.37 FRANK BELLAIRE 83
100 YD. FREE M E N 75-79	100 YD. BACK M E N 75-79	100 YD. FLY M E N 75-79	1:31.45 DAVE MALBROUGH 80
1:04.28 KELLEY LEMMON 88	1:21.83 A VANDE WEGHE 92	1:27.99 PAUL KRUP 92	1:34.77 DAN DOTTERWEICH 84
1:11.64 OBEL JAMES 78	1:24.85 NORRIS FLUKE 76	1:27.99 PAUL KRUP 75	1:34.91 JESSE COON 82
1:12.00 WOODROW BOWERSOCK 79	1:24.99 EDWARD SHEA 78	1:31.48 ALDO DA ROSA 75	1:35.40 ANDREW HAAPANEN 82
1:12.24 ALDO DA ROSA 75	1:25.84 JOHN MERRILL 75	1:38.28 NORRIS FLUKE 75	200 YD. FREE M E N 80-84
1:12.97 LYNN SURLS 75	1:26.41 ALDO DA ROSA 75	1:43.20 GEORGE L. RAFTER 76	2:49.94 KELLEY LEMMON 92
1:14.59 JERRY R SIEFERT 75	1:26.64 EDWARD MORAN 75	1:56.17 WILLIAM GRANT 79	3:08.02 GERSON SOBEL 82
1:14.72 NORRIS FLUKE 76	1:28.53 A.WEGHE 76	2:04.70 JACK MATTINGLY 78	3:08.57 HERBERT HOWE 80
1:15.13 GUS CLEMENS 75	1:32.27 WILLIAM ROWE 76	2:44.22 LEON DOLSKI 77	3:24.79 DAVID MCAFFEE 83

TOP TEN SHORT COURSE YARDS

3:42.17 ANDREW HAAPANEN 82	50 YD. BRST M E N 80-84	400 YD. I.M. M E N 80-84	1:04.43 ABE OLANOFF 86
3:42.97 JESSE COON 82	41.39 KELLEY LEMMON 92	8:27.54 HERB EISENSCHMIDT89	1:08.19 GUS LANGNER 89
3:44.39 JOE IRVINE 82	49.55 FREDERICK HAUFF 82	9:00.55 CARL W. THORNBURG 80	1:09.37 HERB EISENSCHMIDT 86
3:46.31 ALLAN SACHS 80	49.61 DAN DOTTERWEICH 84	9:26.26 JESSE COON 82	100 YD. BRST M E N 85-89
3:47.30 CARL W. THORNBURG 80	53.30 JIM PENFIELD 84	*****	2:04.28 AL KALLUNKI 90
3:47.93 CHARLES A SALIE 81	54.12 GEORGE BATKI 81	50 YD. FREE M E N 85-89	2:03.10 JIM PENFIELD 85NV
3:51.88 RICHARD KANE 81	54.82 JOHN GLENN 82	39.47 CLARENCE ROSS 85	2:31.20 ABE OLANOFF 86
500 YD. FREE M E N 80-84	55.84 CARL W. THORNBURG 80	39.38 F.K. BRASINGTON 85NV	2:35.92 GUS LANGNER 89
8:03.55 GUS LANGNER 85	56.59 WILLIAM MARQUETTE 84	42.48 MAXWELL VOGT 87	200 YD. BRST M E N 85-89
8:34.31 HERBERT HOWE 80	58.27 JESSE COON 82	42.86 ROLAND VANLILL 85	4:34.29 AL KALLUNKI 90
8:59.00 DALE MALBROUGH 80	59.09 LARRY HART 81	43.45 GUS LANGNER 89	4:54.67 JIM PENFIELD 85
9:07.99 DAVID MCAFEE 83	1:00.28 BERNARD SILBER 81	46.54 ARNOTT GRISINGER 85	6:01.85 GUS LANGNER 89
9:50.57 JESSE COON 82	100 YD. BRST M E N 80-84	48.70 JOE KAUFMAN 87	50 YD. FLY M E N 85-89
9:58.64 JOE IRVINE 82	1:32.72 KELLEY LEMMON 92	49.69 ABE OLANOFF 86	59.14 AL KALLUNKI 90
10:22.04 CARL W. THORNBURG 80	1:53.99 FREDERICK HAUFF 82	50.92 PETER JURCZYK 87	1:09.80 ABE OLANOFF 87
10:38.06 LEONARD BRISCO 80	1:58.17 DAN DOTTERWEICH 84	51.82 HERB EISENSCHMIDT 86	1:13.14 HERB EISENSCHMIDT 86
10:59.36 ANDREW HAAPANEN 82	2:05.62 CARL W. THORNBURG 80	56.15 HARRY JAGGERS 86	1:13.65 ABE OLANOFF 86
11:09.91 RICHARD KANE 81	2:10.06 JESSE COON 82	100 YD. FREE M E N 85-89	1:44.03 GUS LANGNER 89
12:22.72 OTTO HAHN 80	2:16.54 LARRY HART 81	1:27.45 GUS LANGNER 90	100 YD. FLY M E N 85-89
1000 YD. FREE M E N 80-84	2:24.60 JOHN GLENN 81	1:41.21 GUS LANGNER 89	2:32.32 HERB EISENSCHMIDT92
16:54.23 GUS LANGNER 85	2:41.04 BERNARD SILBER 81	1:42.43 ROLAND VANLILL 85	2:32.52 JIM PENFIELD 85
17:16.48 HERBERT HOWE 80	2:45.89 HENRY STEINBISS 80	1:42.57 F.K. BRASINGTON 85	100 YD. I.M. M E N 85-89
19:00.27 DALE MALBROUGH 80	2:57.67 LEONARD BRISCO 80	1:56.48 PETER JURCZYK 87	2:00.04 AL KALLUNKI 90
19:13.47 DAVID MCAFEE 83	3:17.30 LOUIS PARKER 80	1:57.96 JOE KAUFMAN 88	2:21.63 HERB EISENSCHMIDT 86
20:43.22 JOE IRVINE 82	200 YD. BRST M E N 80-84	2:08.24 HARRY JAGGERS 86	2:25.74 PETER JURCZYK 87
21:28.67 CARL W. THORNBURG 80	4:03.66 AL KALLUNKI 84	2:44.75 HAROLD HOFFMANN 85	2:26.01 ABE OLANOFF 86
22:23.46 LEONARD BRISCO 80	4:23.48 CARL W. THORNBURG 80	200 YD. FREE M E N 85-89	2:31.65 GUS LANGNER 89
22:35.39 RICHARD KANE 81	4:31.31 DAN DOTTERWEICH 84	3:17.83 GUS LANGNER 90	200 YD. I.M. M E N 85-89
1650 YD. FREE M E N 80-84	4:47.39 JESSE COON 82	3:40.97 GUS LANGNER 89	4:40.51 TOM CURETON 87
28:04.21 GUS LANGNER 85	5:55.46 HENRY STEINBISS 80	4:19.10 JIM PENFIELD 85	4:55.72 JIM PENFIELD 85
29:40.51 HERBERT HOWE 80	5:56.20 JOHN GLENN 82	4:22.12 JOE KAUFMAN 87	400 YD. I.M. M E N 85-89
32:00.92 DAVID MCAFEE 83	7:00.21 LOUIS PARKER 80	4:34.80 PETER JURCZYK 87	9:47.85 HERB EISENSCHMIDT92
35:23.88 JOE IRVINE 82	50 YD. FLY M E N 80-84	4:40.50 ABE OLANOFF 87	NO SWIMMERS
35:38.04 CARL W. THORNBURG 80	40.94 JESSE COON 90	500 YD. FREE M E N 85-89	*****
35:48.36 FRED B. WALBOLT 80	46.74 JESSE COON 82	9:00.31 GUS LANGNER 90	50 YD. FREE M E N 90-94
37:01.77 CHARLES WOOD 84	52.05 OTTO WULFF 80	9:49.42 GUS LANGNER 89	46.53 JOSEPH REINERS 92
50 YD. BACK M E N 80-84	53.91 CARL W. THORNBURG 80	11:48.17 JOE KAUFMAN 87	46.53 JOSEPH REINERS SR 90
41.17 ART RULE 87	54.04 DONALD LEATHERMAN 80	1000 YD. FREE M E N 85-89	1:21.58 PAUL SPANGLER 94
41.09 DAVE MALBROUGH 80NV	1:00.16 JIM PENFIELD 84	18:18.29 GUS LANGNER 89	100 YD. FREE M E N 90-94
46.85 FREDERICK HAUFF 82	1:07.81 RICHARD KANE 81	21:20.95 GUS LANGNER 89	2:24.60 PAUL SPANGLER 89
48.12 CHARLES A SALIE 81	1:10.36 LEE 'KIP' KING 80	24:14.17 JIM PENFIELD 85	3:07.97 PAUL SPANGLER 94
49.01 JACK HOEY 83	1:27.07 HENRY SOBBE 80	1650 YD. FREE M E N 85-89	200 YD. FREE M E N 90-94
50.05 LEE STARR 83	1:46.46 HENRY STEINBISS 80	31:02.36 GUS LANGNER 90	5:22.61 PAUL SPANGLER 90
50.30 JOHN GLENN 82	2:40.20 LOUIS PARKER 80	NO SWIMMERS	NO SWIMMERS
50.51 ALLAN SACHS 80	100 YD. FLY M E N 80-84	50 YD. BACK M E N 85-89	500 YD. FREE M E N 90-94
51.83 CARL W. THORNBURG 80	1:50.88 JESSE COON 91	52.83 PETER JURCZYK 90	13:13.36 PAUL SPANGLER 89
53.98 WILLIAM MARQUETTE 84	1:58.32 JESSE COON 82	54.28 MAXWELL VOGT 87	19:25.41 PAUL SPANGLER 94
55.40 ANDY HAAPANEN 82	2:04.60 CARL THORNBURG 80	58.27 PETER JURCZYK 87	1000 YD. FREE M E N 90-94
100 YD. BACK M E N 80-84	2:22.60 DONALD LEATHERMAN 80	1:00.84 ROLAND VANLILL 85	28:04.65 PAUL SPANGLER 89
1:33.96 DAVID MALBROUGH 93	2:56.00 RICHARD KANE 81	1:01.43 HERB EISENSCHMIDT 86	NO SWIMMERS
1:33.96 DALE MALBROUGH 80	200 YD. FLY M E N 80-84	1:02.10 ABE OLANOFF 86	1650 YD. FREE M E N 90-94
1:42.01 CHARLES A SALIE 81	4:20.25 JESSE COON 90	1:02.90 HARRY JAGGERS 86	51:31.39 PAUL SPANGLER 89
1:47.61 CARL W. THORNBURG 80	4:55.18 JESSE COON 82	1:03.25 JOE KAUFMAN 87	NO SWIMMERS
1:48.56 JACK HOEY 83	5:28.66 CARL W. THORNBURG 80	1:06.02 GUS LANGNER 89	50 YD. BACK M E N 90-94
1:49.57 FREDERICK HAUFF 82	100 YD. I.M. M E N 80-84	100 YD. BACK M E N 85-89	1:15.02 TOM LANE 89
1:56.72 LEE STARR 83	1:40.18 JIM PENFIELD 88	1:54.21 PETER JURCZYK 90	2:03.00 TONY LOPEZ 92
1:57.83 DAVID MCAFEE 83	1:50.26 CARL W. THORNBURG 80	1:56.12 JIM PENFIELD 85	100 YD. BACK M E N 90-94
1:59.22 JOHN GLENN 81	1:50.44 JESSE COON 82	2:11.32 PETER JURCZYK 87	3:17.90 TONY LOPEZ 90
2:07.40 JOE IRVINE 82	1:50.47 FREDERICK HAUFF 82	2:21.71 JOE KAUFMAN 88	4:33.33 TONY LOPEZ 92
2:09.48 JAMES F. MITCHELL 80	1:58.59 OTTO WULFF 80	2:22.45 HARRY JAGGERS 86	200 YD. BACK M E N 90-94
200 YD. BACK M E N 80-84	2:01.25 JIM PENFIELD 84	2:26.28 ABE OLANOFF 87	6:40.23 TONY LOPEZ 90
3:34.08 DAVID MALBROUGH 93	2:04.44 CHARLES A SALIE 81	2:33.95 GUS LANGNER 89	10:13.39 TONY LOPEZ 92
3:34.08 DAVE MALBROUGH 80	2:20.83 LARRY HART 81	200 YD. BACK M E N 85-89	50 YD. BRST M E N 90-94
3:44.40 CHARLES A SALIE 81	2:28.92 EVERETT CASSELL 80	4:13.75 JIM PENFIELD 93	1:10.74 JOSEPH REINERS 92
4:03.18 CARL W. THORNBURG 80	2:35.25 RICHARD KANE 81	4:13.75 JIM PENFIELD 85	1:10.74 JOSEPH REINERS SR 90
4:08.00 FREDERICK HAUFF 82	3:10.95 HENRY STEINBISS 80	4:45.54 PETER JURCZYK 87	2:56.07 TONY LOPEZ 93
4:08.23 JIM PENFIELD 84	200 YD. I.M. M E N 80-84	4:56.27 JOE KAUFMAN 88	*****
4:11.13 JACK HOEY 83	3:48.22 HERB EISENSCHMIDT87	5:18.72 GUS LANGNER 89	50 YD. FREE M E N 95 +
4:43.72 JAMES F. MITCHELL 80	4:10.03 CARL W. THORNBURG 80	5:28.33 HARRY JAGGERS 86	1:14.35 TOM LANE 90
4:50.38 JOHN GLENN 82	4:17.99 JESSE COON 82	50 YD. BRST M E N 85-89	NO SWIMMERS
4:54.76 OTTO WULFF 80	5:57.63 RICHARD KANE 81	52.09 JIM PENFIELD 93	100 YD. FREE M E N 95 +
5:11.23 GEORGE BATKI 81	6:25.00 HENRY STEINBISS 80	52.09 JIM PENFIELD 85	3:20.38 TOM LANE 90

TOP TEN SHORT COURSE YARDS

NO SWIMMERS
50 YD. BACK M E N 95 +
1:08.20 TOM LANE 89
NO SWIMMERS
100 YD. BACK M E N 95 +
3:05.81 TOM LANE 92
NO SWIMMERS
50 YD. BRST M E N 95 +
1:27.94 TOM LANE 89
NO SWIMMERS

TOP TEN SHORT COURSE YARDS

RELAYS: WOMEN 200 YD. FREE				

19 +				
R:HOLMES LUMBER 92	1:38.68			
KIMBERLY BEATTIE				
MARY ROEBUCK				
LINDA NEARY				
SUDI MILLER				
VIRGINIA	1:41.68			
BETH GARDNER	27			
CLAI BOLEK	29			
H.COULSON-MOORE	23			
ALICE PHILLIPS	27			
S. CAL	1:43.88			
PAMELA URBAS	21			
JEANIE CHICKE	23			
KATE EGAN	21			
SUSIE BURT	21			
O*H*I*O MASTERS	1:45.87			
ERIN E. BORDEN	31			
MARY UBERT	28			
JENNIFER UEBELE	28			
KATHERINE NOOK	22			
S. CAL	1:46.29			
SHANNON DAVIES	20			
KARIN SPONHOLZ	21			
CINDY LICHTMAN	29			
ANDREA BARDIN	24			
VIRGINIA	1:46.61			
ROBIN HAMPTON	26			
KATHY WAGGONER	26			
PAULA JONES	24			
MARIA VELIKONJA	35			
SANTA CLARA	1:46.72			
DARBY ELLEMAN	32			
WENDY HANSEN	24			
SUSIE BLAKE	27			
LESLEY CHEQUER	27			
NEW ENGLAND	1:46.86			
DIANE SAGASER	26			
NANCY SIROIS	34			
MICHELE ROY	28			
MICHELE FOX	22			
SANTA CLARA	1:47.52			
MARLEE HUBBS	19			
CATHY EVERITT	30			
BETH SEATON	25			
MONICA FOX	19			
DAVIS	1:48.16			
H.CHRISTENSEN	21			
CHRISTIE SCHULTZ	21			
M.LE STRANGE	40			
BETH SKOREY	21			
MICHIGAN	1:48.16			
SHARI THOMPSON	23			
AMY THAYER	26			
KRISTIN NELSON	27			
KIMBERLY KRAUSE	28			
25 +				
R:LONE STAR 89	1:37.40			
LISA JACKSON				
BRIGITTE HEUER				
L.MORRISON-CASEY				
AMY PLESS				
WALNUT CREEK	1:40.01			
PAULA ROEMER	32			
KIRA MCDONOUGH	26			
BETSY HENRY	33			
SARA SHAND	29			
ROCKY MOUNTAIN	1:40.80			
DANA DUTCHER	25			
SANDRA GOLDING	29			
ELLEN ATKINSON	30			
KATHY GARNIER	32			
S. CAL	1:41.76			
D.GRANER-GALLAS	29			
A.MIDDAUGH	28			
PAM LAZZAROTTO	31			
ELLEN FERGUSON	30			
CONNECTICUT	1:42.83			
MARGARET MORTELL	29			
LIZ HOBBS	31			
JULIE STEWART	31			
SHEILA MORTELL	31			
ARIZONA	1:43.33			
MONICA BAILEY	32			
DIANNE WYGAL	27			
LORI SCHMIDT	30			
BECKI PEDUCHI	29			
ADIRONDACK	1:45.18			
KAVANEY	25			
ANNE RICHARDSON	34			
CHERYL SOLOMON	39			
MARY KAVANEY	27			
DURHAM AQUATIC	1:45.64			
WENDY GILMAN	27			
SHEREEN BARRY	30			
PAMELA LINDROOS	27			
LISA NADLER	34			
CHICO	1:46.17			
LESLIE DEFOE	35			
DIANA BEREXA	25			
REG BRITTINGHAM	41			
JILL HERNANDEZ	32			
SAN DIEGO	1:46.27			
BETH KNIGHT	33			
DIANE HOTZ	30			
JUDY NELSON	32			
D. DOLAN-EVANS	35			
WALNUT CREEK	1:46.39			
PAMELIA BOSCOVICH	30			
SUSAN DUNCAN	27			
COLLEEN HAZLETT	30			
PEGGY FAWCETT	33			
35 +				
R:NEW ENGLAND 92	1:43.16			
JOEL FELDMAN				
SUE TENDY				
JENNY LUKER				
GAYLE WETTACH				
S. CAL	1:46.77			
DIANA TODD	49			
KAREN MELICK	36			
TERESA HOLLEY	39			
BONNIE ADAIR	40			
NEW ENGLAND	1:47.19			
JOEL FELDMANN	41			
TRACY GRILLI	36			
JENNIFER LUKER	36			
KAREN BOYER	37			
WALNUT CREEK	1:50.05			
PATTY LANDERS	36			
SHARON ODELL	40			
DEBBIE FLANSBURG	37			
CATHY COOLEY	35			
SANTA CLARA	1:52.47			
THERESA HESSLER	41			
DEE HAYNIE	38			
LAURIE SAMUELSON	37			
LISA YONAKA	37			
GISA	1:53.10			
SHARON WISE	46			
MARY ANN STEVENS	39			
JEAN TRACY	38			
C.GETTELFINGER	35			
COLONIALS	1:53.15			
DOT MUNGER	41			
D KANNEGIESER	36			
DEBORAH CAIN	36			
STEPHANIE WALSH	43			
SAN MATEO	1:53.87			
DEBORAH WALKER	40			
TINA MADEJ	35			
MARGARET REEVES	38			
VALERIE DUNN	43			
MARYLAND	1:55.12			
BARBARA PROTZMAN	38			
MARTI BETZ	43			
NANCY STERLING	37			
JOANNE KANE	36			
NEW ENGLAND	1:57.26			
EILEEN CRAFFEY	41			
KIM GOODWIN	35			
KATHRYN LYNCH	37			
ANN MCDERMOTT	38			
ROCKY MOUNTAIN	1:57.87			
JUDY REED	49			
JEAN WOOD	45			
LAURA SKOTNICKI	39			
KATHLEEN MARVIN	42			
45 +				
R:LOS ALTOS 93	1:55.86			
GRACE VOSS				
KRISTINA KING				
ARLENE PROEBSTING				
CAROLYN BOAK				
LOS ALTOS	1:55.86			
GRACE VOSS	49			
KRISTINA KING	45			
ARLENE PROEBSTING	50			
CAROLYN BOAK	48			
DC MASTERS	1:59.46			
BABARA FRID	51			
JOANN LEILICH	54			
ANN SVANSON	47			
ANN LYTTLE	45			
RINCONADA	2:02.69			
SUE KELLY	45			
SUSAN SPRINGER	54			
NANCY BROOKS	50			
RUTH PETERSON	46			
MARYLAND	2:06.13			
NANCY BROWN	56			
MARGE BURLEY	47			
LYNNE BRAGG	46			
MARILYN LUMPKIN	49			
DAVIS	2:15.97			
GAYLE BONDURANT	46			
BETTY DUGAN	51			
PATTI GAY	63			
SUSAN MUNN	54			
SMS	2:19.75			
B.CULBERTSON	55			
JUDY L. PARRETT	55			
SUZY CARLSON	51			
LYNN CARTEE	45			
EMPIRE	2:20.14			
ANN MCDONNELL	54			
KITTY KESSLER	50			
ALICE JONES	54			
CHRISTINE ZIMMET	45			
MARYLAND	2:21.57			
KATHRYN GREGORY	47			
GAIL SAGHIRIAN	48			
CAROL ROWSE	50			
SALLY ILIFF	47			
ST PETE	2:22.89			
JAYNE M. LAMBKE	53			
SANDY L. STEER	53			
MARY LOU LEE	51			
ELAINE BROMWICH	50			
OJAI	2:24.76			
ISSA AINSWORTH	46			
CAROLE BORLAND	49			
C.SPRACKLIN	48			
MALCHIA OLSHAN	62			
55 +				
R:NEW ENGLAND 91	2:14.01			
CLARA WALKER				
BILLIE BURRILL				
HARRIET FORKEY				
DIANE REED				
WALNUT CREEK	2:21.04			
BARBARA JORDAN	55			
ANN PISCIOTTA	62			
DONNA MONROE	59			
BETTY BARABASH	64			
RINCONADA	2:28.87			
BARBARA CALLISON	60			
CINDY BAXTER	60			
NAN BLACKLEDGE	68			
ANN KAY	59			
ST PETE	2:32.23			
BARBARA A. ALLEN	59			
KATE KNIGHT-PERRY	57			
B.J. TUCKER	58			
J.G. PIPER	56			
CONNECTICUT	2:36.07			
MARIAN BRENNER	62			
NANCY PHILLIPS	71			
DOROTHY DONNELLY	71			
SUZANNE GRAHAM	66			
SACRAMENTO	2:37.53			
KATHY ISERI	60			
IRMA REIMER	61			
ELLEN VOSE	63			
DOT WERRY	56			
COLONIALS	2:42.31			
BARBARA JOHNSON	60			
RUTH AARON	64			
A SHENCK DALLAN	62			
CAROL HENRY	64			
OJAI	2:45.87			
JAN RAINS	59			
RUTH FARNHAM	63			
MITNEE DUQUE	58			
MALCHIA OLSHAN	62			
PNA	3:03.14			
JAN KAVADAS	62			
CYNTHIA ROSIK	60			
JOY ROSS	59			
CAROLYN BALDWIN	59			
BOLT	3:04.49			
LARRAINE RIZZUTO	57			
BETTY RUSSO	61			
CLAIRE ROACH	65			
BARBARA BOWER	55			
HEARTLAND	3:06.54			
TRISH HUNTER	59			
JUDY TILARO	57			
NANCY REED	65			
ANN MARTIN	63			

TOP TEN SHORT COURSE YARDS

65 +		R:RALEIGH	92	1:52.20	U OF SAN FRAN	1:53.18	VIRGINIA	2:08.47
R:SANTA BARBARA	89	COURTNEY SEARCY			JILL ROTHKOPF	26	TERRY GAULT	42
SHIRLEY ERICKSON		LISA BROWN			BETHANNE LAMBERT	25	NANCY MILLER	43
GRACE ALTUS		SHELLIE JOANIS			LORETTA SOFFE	26	MARIA VELIKONJA	35
DOROTHY LA CHASSE		JILL BENDA			KELLY ASPLUND	31	MOLLY BRODERSON	41
RUTH BAAR		VIRGINIA	1:53.43		ROCKY MOUNTAIN	1:54.17	COLONIALS	2:09.72
WALNUT CREEK	2:52.46	BETH GARDNER	27		SANDRA GOLDING	29	C SCHROEDER	43
ELFRIEDE ROGERS	65	KATHY WAGGONER	26		ELLEN ATKINSON	30	STEPHANIE WALSH	43
PATRICIA PREVETZ	72	H.COULSON-MOORE	23		DANA DUTCHER	25	JILL WHITNEY	35
JAE HOWELL	70	ALICE PHILLIPS	27		KATHY GARNIER	32	CARRIE PATTERSON	35
JACQUE PLACAK	68	S. CAL	1:53.63		GISA	1:57.76	SAN MATEO	2:09.77
HOLMES LUMBER	2:53.04	SUSIE BURT	21		TRICIA ZORN	28	VALERIE DUNN	43
FLORENCE E. CARR	67	PAMELA URBAS	21		JULIE BOAZ	31	DEBORAH WALKER	40
JUNE B. REYNOLDS	71	KATE EGAN	21		JULIE STEIN	25	TINA MADEJ	35
JOAN M. GLARATON	65	ANDREA BARDIN	24		ANDRA OZOLINS	33	MARGARET REEVES	38
M.R. NEWMAN	69	U OF SAN FRAN	1:57.82		ARIZONA	1:59.57	MARYLAND	2:10.17
SAN MATEO	3:02.68	CYNTHIA HINSHAW	23		MONICA BAILEY	32	NANCY STERLING	37
ZADA TAFT	73	JANET HAUER	24		ROBIN KENNEDY	26	DEBORAH DUDAS	35
AUDREY ETIENNE	76	JENNY TONON	22		DIANNE WYGAL	27	BARBARA PROTZMAN	38
M.KNOCHENHAUER	66	BRENDA WICKLUND	24		BECKI PEDUCHI	29	JOANNE KANE	36
HELEN ROUMASSET	77	O*H*I*O MASTERS	1:59.51		S. CAL	2:00.37	WALNUT CREEK	2:10.63
SAN DIEGO SWIM	3:04.09	ERIN E. BORDEN	31		SARAH TURNER	31	KAREN BOYER	37
BOBBI I TURCOTTE	65	MARY UBERT	28		KIRA GARRETT	28	SUSAN WISTI	37
ALICIA COLEMAN	67	JENNIFER UEBELE	28		CINDY LICHTMAN	29	CAROL BREITER	37
DIANA M SILVA	70	KATHERINE NOOK	22		LEZLIE GRUENLER	30	JULIE MCKINLEY	35
VIOLA THOMPSON	74	SOUTH BAY	1:59.74		DAVIS	2:00.71		
MICHIGAN	3:04.98	SUSIE MORTENSON	24		C.CHICHESTER	29	45 +	
JEWELL COOKE	84	SUSAN STORRER	29		ANNA SCOTT	30	R:D C MASTERS	91 2:12.67
EDITH GLUSAC	74	JENNIFER O'CONNER	30		JENNIFER NORRIS	26	NANCY KIRKENDALL	
ALICE BRANDON	66	CAROLE SHIGAKI	37		KAREN NEWSOM	26	JOANN LEILICH	
LOIS NOCHMAN	68	SACRAMENTO	2:01.45		TEMESCAL	2:00.81	JAYNE BRUNER	
COLONIALS	3:16.46	SUE LOWRIE	24		CONNIE RYDBERG	26	ANN SVANSON	
CAROLYN DERR	65	LISA CHRISTO	25		JANICE GILLIES	35	DC MASTERS	2:12.96
FAY BECK	66	LISA KUMER	28		THEA VAUGHAN	31	BABARA FRID	51
FLORENCE MELICK	71	DEBIE MEYER	40		LINDA BUCHANAN	35	JOANN LEILICH	54
JEANNE MERRYMAN	70	S. CAL	2:01.52		CHICO	2:00.82	ANN LYTTLE	45
ROCKY MOUNTAIN	3:39.12	SHANNON DAVIES	20		LESLIE DEFOE	35	ANN SVANSON	47
LUELLA HEATH	73	DIANNA TATE	32		JILL HERNANDEZ	32	LOS ALTOS	2:17.31
AGOTA FROHS	73	KARIN SPONHOLZ	21		REG BRITTINGHAM	41	DELLA SEHORN	65
A.HOTTINGER	71	JEANIE CHICKE	23		DIANA BEREXA	25	CAROLYN BOAK	48
SALLY RYCKMAN	81	NEW ENGLAND	2:01.54				KRISTINA KING	45
OREGON	4:00.34	MICHELE FOX	22		35 +		ARLENE PROBESTING	50
ELFIE J STEVENIN	71	MICHELE ROY	28		R:S CAL	93 1:57.52	MARYLAND	2:18.11
JUDY M MELCHER	72	DIANE SAGASER	26		BONNIE ADAIR		NANCY BROWN	56
HELENA W HOFFMAN	77	MARCIA MISIORSKI	35		KAREN MELICK		MARILYN LUMPKIN	49
KATHLEEN A HUGHES	66	LAKESIDE	2:01.82		DIANA TODD		MARGE BURLEY	47
PACIFIC NRHWST	4:01.91	KAY BLACKWOOD	24		TERESA HOLLEY		LYNNE BRAGG	46
MARYAN BURKE	67	A.WRIGHT-BELKNAP	42		S. CAL	1:57.52	RINCONADA	2:20.39
LEE HOLM	78	SUSAN AUGUSTUS	25		BONNIE ADAIR	40	SUSAN SPRINGER	54
MARION MUELLER	81	MELINDA SCHMITT	34		KAREN MELICK	36	NANCY BROOKS	50
MAXINE CARLSON	73	LINCOLN MASTERS	2:02.53		DIANA TODD	49	SUE KELLY	45
		MARY JO FERRIS	31		TERESA HOLLEY	39	RUTH PETERSON	46
		JANE ROBIE	34		WALNUT CREEK	1:58.77	S CAL	2:31.40
75 +		MARY KUSKOWSKI	24		PATTY LANDERS	36	LINDA TEPE	45
R:WALNUT CREEK	93 3:26.38	SUSAN STANLEY	26		CATHY COOLEY	35	GREER MACREADY	50
SALLY JOY					DEBBIE FLANSBURG	37	DIANA TODD	49
FRIDA SIDORSKY		25 +			SHARON ODELL	40	M. MARGOWSKY	46
JEAN DURSTON		R:HOUSTONIAN	91 1:49.19		NEW ENGLAND	1:59.49	KOREAN SS	2:31.71
MARY JANE REEVES		TORI SMITH			JOEL FELDMANN	41	SUN PAK	46
WALNUT CREEK	3:26.38	CORRIN CONVIS			KIM GOODWIN	35	SOON JO SHIN	48
SALLY JOY	76	DEBBIE RISEN			JENNIFER LUKER	36	S. MACDONALD	49
FRIDA SIDORSKY	76	BRIGITTE HEVER			TRACY GRILLI	36	TONG SUK PAE	48
JEAN DURSTON	78	WALNUT CREEK	1:52.52		GISA	2:06.27	MARYLAND	2:32.71
MARY JANE REEVES	76	PAMELIA BOSCOVICH	30		MARY ANN STEVENS	39	KATHRYN GREGORY	47
ST PETE	3:37.40	KIRA MCDONOUGH	26		JEAN TRACY	38	CAROL ROWSE	50
M.B. McKECHNIE	88	SARA SHAND	29		SHARON WISE	46	SUSAN SPROUL	45
F.E. CICHANSKI	76	PAULA ROEMER	32		C.GETTELFINGER	35	SALLY LIFF	47
WIN KENNEDY	79	S. CAL	1:52.99		COLONIALS	2:06.48	CULVER-PALMS Y	2:38.12
KAY M. SCHIMPF	75	D.GRANER-GALLAS	29		M KILGARIFF	35	CAROLLEE HOWES	45
*****		ELLEN FERGUSON	30		D KANNEGIESER	36	JOAN STEEVER	45
RELAYS: WOMEN 200 YD. MEDLEY		PAM LAZZAROTTO	31		BETH ESTEL	37	NANCY YAMAZAKI	45
*****		A.MIDDAUGH	28		DEBORAH CAIN	36	ANNE WELLS	46

TOP TEN SHORT COURSE YARDS

ALMADEN	2:40.84	GRACE ALTUS		BRENDA WICKLUND		LYNN WITTSTOCK	30
MARIE FARNSWORTH	53	RUTH BAAR		U OF SAN FRAN	3:46.29	WALNUT CREEK	4:00.82
ROCKI KRAMER	47	RINCONADA	3:10.68	JENNY TOTON	22	KIM COLLENTINE	27
G.VANDER KAM	47	NAN BLACKLEDGE	68	CYNTHIA HINSHAW	23	PAM BOSCOVICH	30
MARILYN BLISS	47	PATSY WSISS	70	JANET HAUER	24	KIRA MCDONOUGH	26
DAVIS	2:41.08	SALLY SCHOLER	69	BRENDA WICKLUND	23	COLLEEN HAZLETT	30
BETTY DUGAN	51	TERRI AHELIS	69	SANTA CLARA	3:50.56	U OF SAN FRAN	4:01.23
GAYLE BONDURANT	46	WALNUT CREEK	3:18.15	DARBY ELLEMAN	32	NATALIE EFFA	25
SUSAN MUNN	54	JACQUIE PLACAK	68	WENDY HANSEN	23	CORY NUGENT	28
PATTI GAY	63	JAE HOWELL	70	EVE WALTON	32	LYNN JOLLY	28
		ELFRIEDE ROGERS	65	LESLIE CHEQUER	27	MARTHA OLSEN	32
		PATRICIA PREVETZ	72	WALNUT CREEK	3:51.01	LINCOLN MASTERS	4:01.57
55 +		HOLMES LUMBER	3:19.90	MICHELLE GHIGGERI	22	ADRIANNE HAMPO	28
R:WALNUT CREEK	93 2:33.55	M.R. NEWMAN	69	JANICE HACHIYA	20	KAREN SCHOENHALS	25
BARBARA JORDAN		GERTRUD J. ZINT	75	PEGGY FAWCETT	33	MARY GUTHRIE	28
YOLANDE HOSS		FLORENCE E. CARR	67	SUSAN DUNCAN	27	BECKY HELLER	29
ANN PISCIOTTA		JEAN A. BEERS	70	SOUTH BAY	4:03.09	STANFORD	4:01.72
DONNA MONROE		SAN DIEGO SWIM	3:20.06	JENNIFER O'CONNOR	30	JILL SAMUELS	25
WALNUT CREEK	2:33.55	BOBBI I TURCOTTE	65	SUSAN STOHNER	29	MARTIE MCKINNEY	28
BARBARA JORDAN	55	ALICIA COLEMAN	67	SUSIE MORTENSON	24	KATIE CLIFFORD	28
YOLANDE HOSS	59	DIANA M SILVA	70	CAROLE SHIGAKI	37	REBECCA PERRY	28
ANN PISCIOTTA	62	VIOLA THOMPSON	74	LINCOLN MASTERS	4:04.40	ALMADEN	4:02.00
DONNA MONROE	59	COLONIALS 1776	3:42.43	KATIE DECKER	22	KAREN BAERWALDT	29
RINCONADA	2:42.62	JEANNE MERRYMAN	70	SUSAN STANLEY	26	JANICE LESYNA	26
ANN KAY	59	CAROLYN DERR	65	MARY KUSKOWSKI	24	LESLIE PINKNEY	31
CINDY BAXTER	60	FAY BECK	66	MARY JO FERRIS	31	SHARON BEENE	30
BARBARA CALLISON	60	FLORENCE MELICK	71	SACRAMENTO	4:05.62	RINCONADA	4:07.56
MARTY BARRY	60	SAN MATEO	3:44.83	LISA CHRISTO	25	KIM ELSBACH	30
SACRAMENTO	2:48.38	AUDREY ETIENNE	76	ANITA BENEDICT	29	ANN GOSSLIN	29
KATHY ISERI	60	HILDA BUEL	79	LINDA LIPINSKI	33	CHRIS KANAZAWA	26
IRMA REIMER	61	ZADA TAFT	73	SUE LOWRIE	23	MARIANNE BREMS	43
DOT WERRY	56	M.KNOCHENHAUER	66	DAVIS	4:06.31	COLONIALS	4:08.42
ELLEN VOSE	63	OJAI	3:54.14	SUE LOWRIE	23	PATTY LYNCH	31
OJAI	2:56.97	JENNIE TAYLOR	75	CHRIS CHICHESTER	29	A.CHICK-PHILLIPS	30
MITNEE DUQUE	57	MAGGIE MORS	66	KRISTIN OLSEN	21	ANITA DRAVES	28
HELEN WILLEY	59	RUTH RIDENOUR	78	CHRIS WINN	27	SHEILA AGNEW	29
DARLENE RAND	64	ELEANOR BROWN	67	U OF SAN FRAN	4:12.16		
RITA MAY	56	ROCKY MOUNTAIN	4:23.60	MARY LEE	23	35 +	
LAKESIDE	2:57.12	LUELLA HEATH	73	C.ROBERTSON	23	R:LOS ALTOS	89 4:06.91
JOYCE VOIT	58	AGOTA FROHS	73	SURA DUBOW	21	C.FERRIS-JOHNSON	
MARY ANN STONE	59	A.HOTTINGER	71	NATASHA ISGUR	21	THERESA HESSLER	
MARY JANE MULLINS	61	SALLY RYCKMAN	81	SACRAMENTO	4:16.52	LAURA VAL	
CAROL FERGUSON	61	PACIFIC NRTHWST	4:25.83	KARIN SCHMIDT	23	KATHY GRIGGS	
WALNUT CREEK	3:02.40	MARION MUELLER	81	CATHY LAW	25	WALNUT CREEK	4:08.47
BETTY MCMILLAN	64	MARYAN BURKE	67	GRIETJE REUTER	26	DEBBIE FLANSBURG	37
JOAN ALEXANDER	61	MAXINE CARLSON	73	LISA KUMER	28	PATTY LANDERS	36
SALLY MORNER	56	LEE HOLM	78	TRIAD MASTERS	4:17.88	JULIE MCKINLEY	35
BETTY BARABASH	64			KERI FITZGERALD	22	CATHY COOLEY	35
CONNECTICUT	3:05.77	75 +		KARA MCRBERTS	24	COLONIALS	4:14.40
NANCY PHILLIPS	71	R:WALNUT CREEK	93 3:47.25	BEBE OLSON	30	JILL WHITNEY	35
DOROTHY DONNELLY	71	FRIEDA SIDORSKY		LORI MOWEN	33	D KANNEGIESER	36
SUZANNE GRAHAM	66	SALLY JOY				DEBORAH CAIN	36
MARIAN BRENNER	62	MARY JAN REEVES		25 +		M KILGARIFF	35
U OF SAN FRAN	3:07.60	JEAN DURSTON		R:WALNUT CREEK	91 3:37.75	U OF SAN FRAN	4:21.65
MARY ALLEN	60	WALNUT CREEK	3:47.25	CAREN LEWIS		MARY SAAL	38
CAROL REQUADT	55	FRIEDA SIDORSKY	76	PAULA KOGNER		DIANNE DAVIS	36
GAIL ROPER	63	SALLY JOY	76	WENDY INGRAHM		KAREN MITCHELL	40
M. VOORHEES	64	MARY JANE REEVES	76	SARA SHAND		BARBARA DONDERO	35
PACIFIC NRTHWST	3:13.60	JEAN DURSTON	78	U OF SAN FRAN	3:44.40	EMPIRE STATE	4:25.62
CAROLYN BALDWIN	59	ST PETE	4:21.12	LORETTA SOFFE	27	MARTA JOHNSON	37
CYNTHIA ROSIK	60	M.B. McKECHNIE	88	BETHANNE LAMBERT	26	GWEN DEELY	43
JAN KAVADAS	62	WIN KENNEDY	79	JILL ROTHKOPF	26	PAULA ROBINSON	37
ANN GINDROZ	55	KAY M. SCHIMPF	75	KELLY ASPLUND	31	KAREN FARNSWORTH	37
COLONIALS	3:19.14	F.E. CICHANSKI	76	WALNUT CREEK	3:45.41	S CAL	4:26.30
BARBARA JOHNSON	60	*****		PAULA ROEMER	32	BONNIE ADAIR	40
CAROL HENRY	64	RELAYS: WOMEN 400 YD. FREE		KATHLEEN MENSCH	30	ANDREA KARGE	37
RUTH AARON	64	*****		SUZANNE HEIM	34	MARY HICKEY	36
L VAN REYMERSDAL	63	19 +		WENDY INGRAHAM	29	TIA STACK	39
		R:U OF SAN FRAN	93 3:46.29	STRAWBERRY CANY	3:57.84	O*H*I*O MASTERS	4:29.37
65 +		JENNY TOTON		J.ZIMMERMAN	28	DIANE ROTHENBERG	40
R:SANTA BARBARA	89 2:55.36	CYNTHIA HINSHAW		JOCELYN WILKIE	28	PAM ALLEN	37
DOROTHY LA CHASSE		JANET HAUER		KATE HARTLEY	30	PAM BECK	35
SHIRLEY ERICKSON							

TOP TEN SHORT COURSE YARDS

JUDITH NORTON	35	J.G. PIPER	55	ELFRIEDE ROGERS	65	REBECCA JACKMAN	29
LINCOLN MASTERS	4:38.03	HEARTLAND	6:14.84	JAE HOWELL	70	KELLI DOLE	34
NANCY GALLAGHER	35	CAROL SING	51	MARY JANE REEVES	75	DAVIS	5:18.05
CAROLYN KAREW	41	MARILYN A RAMEY	52	RINCONADA	6:44.75	CHRISTINE HARVEY	34
CAROL WILDERTAMME	41	NANCY L REED	65	SALLY SCHOLER	67	ANIETTA TICE	31
PATRICIA SCHENKEL	38	CECILY C MC NEIL	47	KATHERINE BAILEY	69	LISA STRAMPACH	34
COLONIALS	4:39.98			ELOISE DANTO	65	LINDA HOOD	34
STEPHANIE WALSH	43	55 +		PATSY WEISS	70	GCMT	5:36.75
PATRICIA TIMMINS	39	R:WALNUT CREEK	93 5:23.15	COLONIALS 1776	7:18.69	SARAH TRACE	32
J GREVULICK-BYRON	42	ANN PISCIOTTA		FAY BECK	66	LORRIE ROGERS	26
JILL BYRNE	43	JOAN ALEXANDER		FLORENCE MELICK	71	DIANE CRAWFORD	26
TAMALPAIS	4:41.45	DONNA MONROE		CAROLYN DERR	65	CHERYL COOPER	33
NANCY RIDOUT	51	BARBARA JORDAN		JEANNE MERRYMAN	70	OJAI	5:53.33
JANE NICHOLS	51	WALNUT CREEK	5:23.15	PACIFIC NRTHWST	8:15.79	MIMI FAY-GOEDEN	35
KIM ORLOFF	41	ANN PISCIOTTA	62	MAXINE CARLSON	72	BROOK ADAMS	31
RUTH WINN	50	JOAN ALEXANDER	61	LEE HOLM	78	SHARLEE CARPER	31
LINCOLN MASTERS	4:46.54	DONNA MONROE	59	PAT MATTHIESEN	76	MARTHA ENGLE	42
G.JOHNSTO	38	BARBARA JORDAN	55	MARYAN BURKE	67		
CORA BUCKOWICH	36	SAN DIEGO	5:28.54	OJAI	9:05.05	35 +	
NANCY SANDS	41	JEANNE LITTLE	56	JENNIE TAYLOR	75	R:LOS ALTOS	90 4:38.42
KATHLEEN RODERER	37	BOBBI TURCOTTE	65	MAGGIE MORS	66	LAURA VAL	
		SUSAN RITTENHOUSE	55	ELEANOR BROWN	67	CATHY SHULBACH	
		BETSY JORDAN	56	RUTH RIDENOUR	78	CAROLYN BOAK	
45 +		RINCONADA	5:36.21	*****		THERESA HESSLER	
R:DC MASTERS	93 4:21.71	BOBBIE CALLISON	60	RELAYS: WOMEN 400 YD. MEDLEY		COLONIALS 1776	5:03.93
RUTH BENNETT		CINDY BAXTER	60	*****		C.SCHROEDER	43
BARBARA FRID		MARTY BARRY	60	19 +		PATRICIA TIMMINS	38
ANN SVANSON		ANN KAY	59	R:U OF SAN FRAN	92 4:10.11	JILL WHITNEY	35
ANN LYTTLE		U OF SAN FRAN	6:02.04	CYNTHIA HINSHAW		BETH ESTEL	36
DC MASTERS	4:21.71	CAROL REQUADT	55	JANET HAUER		GCMT	5:38.72
RUTH BENNETT	46	MARGARET VOORHEES	64	NATALIE EFFA		BARBARA SHAW	36
BARBARA FRID	51	MARY ALLEN	60	JENNIFER SADLER		MANDY SHUMAKER	37
ANN SVANSON	47	GAIL ROPER	63	SOUTH BAY	4:38.38	SUSAN MILLER	36
ANN LYTTLE	45	SACRAMENTO	6:14.89	ANN FINLEY	30	PAIGE LINSKER	40
RINCONADA	4:47.33	ANITA HAZEN	65	SUSIE MORTENSON	24		
SUE KELLY	45	BARBARA BENTY	61	SUSAN STOHRER	29	45 +	
NANCY BROOKS	50	IRMA REIMER	61	CAROLE SHIGAKI	37	R:TAMALPAIS	90 5:24.17
CAROL MACPHERSON	54	DOT WERRY	56	WEST HOLLYWOOD	5:02.86	ANGELA KONIG	
SUE SPRINGER	54	COLONIALS 1776	6:29.49	MARIANNE KELLY	30	RUTH WINN	
OREGON	4:53.81	PATRICIA TULLMAN	56	ERIN CHILDS	35	NANCY RIDOUT	
PETEHY MH. SMITH	68	ELIZABETH KRUPKA	55	E.HALOUZKA	28	CHARLOTTE JENKINS	
JAN M PLESNER	46	A SHENCK DALLAN	62	ALEXIA NALEWAIK	24	OREGON	5:34.33
PAMELA HIMSTREET	48	RUTH AARON	64	WEST HOLLYWOOD	5:05.20	JAN M PLESNER	46
GINGER L PIERSON	46	WALNUT CREEK	6:31.73	KATIE RICE	22	PAMELA HIMSTREET	48
DAVIS	5:16.59	SALLY MORNER	56	JONNA SCHULER	25	GINGER L PIERSON	46
GAYLE BONDURANT	46	YOLANDE HOSS	59	LESLIE RONACHER	28	PETEHY MH. SMITH	68
LESLIE WESTERGARD	50	BETTY MCMILLAN	64	SUSAN EICHER	30	DAVIS	6:50.02
MARY HORTON	50	JEAN DUNCAN	60	BIG C ATHLETIC	5:46.45	L.WESTERGAARD	50
BETTY DUGAN	51	OJAI	6:42.37	SUE SCOTT	39	CAROL CORNUTT	60
LINCOLN MASTERS	5:30.28	RITA MAY	57	PATRICIA PACE	22	MARY HORTON	50
PATRICIA BRUMMET	47	MALCHIA OLSHAN	62	CHERYL HENRY	27	SUSAN MUNN	54
ANN STEVENS	59	RUTH FARNHAM	63	DEBBIE WARNER	32	WEST HOLLYWOOD	9:43.46
HENRIETTA BERNING	59	MITNEE DUQUE	58	SOUTH BAY	5:59.48	RENEE PROTOPAPAS	63
NANCY MURPHY	50	HEARTLAND	7:09.04	KARINA BIRD	27	JANE GUEST	55
ALMADEN	5:33.54	JUDY TILARO	57	NICOLE KNAP	20	SANDY CATTARIN	53
MARILYN BLISS	46	NANCY REED	65	DEDE MOORE	33	JEAN VOSHIZUKA	64
M.FARNSWORTH	53	ANN MARTIN	63	CHRISTINE BAXTED	29		
JULIE MCVICKER	49	TRISH HUNTER	59			55 +	
GLENDIA VANDERKAM	46	U OF SAN FRAN	7:25.84	25 +		R:RINCONADA	88 6:11.61
U OF SAN FRAN	5:45.03	J.HEFFELHAUSER	62	R:U OF SAN FRAN	92 4:09.85	NAN BLACKLEDGE	
KATH ELLYARD	51	A-L RECCHIA	70	JILL ROTHKOPF		CINDY BAXTER	
ANN RICHARDSON	50	SARAH DAVIS	69	BETHANNE LAMBERT		BOBBIE CALLISON	
DOROTHY REMINGTON	46	BARBARA BARBOUR	65	LORETTA SOFFE		SALLY SCHOLER	
NANCY STRETCH	52			KELLY ASPLUND		SAN DIEGO	6:33.93
OJAI	5:56.85	65 +		EMPIRE STATE	4:53.13	BOBBI TURCOTTE	65
ISSA AINSWORTH	47	R:SANTA BARBARA	89 5:32.88	CHRISTINE MELLY	28	BETSY JORDAN	56
CAROLE BORLAND	49	SHIRLEY ERICKSON		CHERYL KUPAN	28	JEANNE LITTLE	56
C.SPRAKCLIN	48	GRACE ALTUS		KRISTIN JUBA	27	SUSAN RITTENHOUSE	55
KITTY JOHNSTON	50	RUTH BAAR		BRENDA CRESWELL	30	HEARTLAND	8:32.64
ST PETE	6:07.70	DOROTHY LA CHASSE		HEARTLAND	5:05.97	NANCY REED	65
KATE KNIGHT-PERRY	57	WALNUT CREEK	6:41.89	DIANE MENDOZA	32	ANN MARTIN	63
MARGIE SIMSIC	53	PAT PREVETZ	71	STACY JOHNSON	30	JUDY TILARO	57
SANDY L. STEER	53						

TOP TEN SHORT COURSE YARDS

TRISH HUNTER	59	LESLIE PINKNEY	30	CARRIE PATTERSON	35	DONNA MONROE	
65 +		JANICE LESYNA	25	C SCHROEDER	43	ELFRIEDE ROGERS	
R:SANTA BARBARA 89	6:47.55	DAVIS	9:04.14	GCMT	10:26.55	JOAN ALEXANDER	
DOROTHY LACHASSE		C.CHICHESTER	29	MANDY SHUMAKER	37	ANN PISCIOTTA	
SHIRLEY ERICKSON		LISA STRAMPACH	34	BARBARA SHAW	36	SAN DIEGO	12:11.13
GRACE ALTUS		CHRISTINE WINN	27	PAIGE LINSKER	40	JEANNE LITTLE	56
RUTH BAAR		KAREN NEWSOME	25	SUSAN MILLER	36	BOBBI TURCOTTE	65
PACIFIC NRTHWST	8:52.77	HEARTLAND	9:31.13	CULVER-PALMS Y	11:51.79	SUSAN RITTENHOUSE	55
MARION MUELLER	80	DIANE MENDOZA	32	ANNE WELLS	46	BETSY JORDAN	56
MARYAN BURKE	67	KELLI DOLE	34	NANCY YAMAZAKI	45	WALNUT CREEK	12:28.15
PAT MATTHIESEN	76	REBECCA JACKMAN	29	ANNE PERRY	46	DONNA MONROE	58
MAXINE CARLSON	73	T.SLEIGH-MARTIN	32	ELIZABETH WEINER	44	SALLY MORNER	59
*****		MOUNTAIN VIEW	10:03.82	STRAWBERRY CANY	11:59.14	JOAN ALEXANDER	60
RELAYS: WOMEN 800 YD. FREE		LINDA GLAVE	26	JANICE AU-YOUNG	37	ANN PISCIOTTA	61
*****		SUSAN FODEN	40	NANCY FRIEDAMN	42	OJAI	14:52.99
19 +		SUZANNE TOPP	25	CAROLYN SOOHOO	41	MALCHIA OLSHAN	62
R:U OF SAN FRAN 92	8:12.80	JULIE PAQUE	34	JENNY MARSHALL	35	RITA MAY	57
JENNIFER SADLER		STRAWBERRY CANY	10:06.83	HEARTLAND	12:39.04	RUTH FARNHAM	63
NATALIE EFFA		KATHY STRIEBEL	34	SHERYL WALKER	37	MITNEE DUQUE	58
JANET HAUER		HILARY BROWN	33	CAROL SING	51	HEARTLAND	15:30.32
CYNTHIA HINSHAW		SUE WITTSTOCK	33	CECILY MC NEIL	47	JUDY TILARO	57
COLONIALS 1776	8:24.02	J.ZIMMERMAN	28	TINA DANIELS	36	NANCY REED	65
ELIZ BEAUSANG	24	WEST HOLLYWOOD	10:10.11	45 +		TRISH HUNTER	59
LAURIE HUG	28	ERIN CHILDS	35	R:DC MASTERS 93	9:42.96	ANN MARTIN	63
DEBRA SPECK	31	JESSICA SEATON	40	RUTH BENNETT		65 +	
LESLEY MATHESON	32	MARIANNE KELLY	30	BARBARA FRID		R:SANTA BARBARA 89	12:14.80
STRAWBERRY CANY	8:57.19	E.HALOUZKA	28	ANN SVANSON		SHIRLEY ERICKSON	
CHERYL LONGFELLOW	23	RAMONA WATERFLI	10:16.12	ANN LYTTLE		GRACE ALTUS	
KARIN MORRIS	28	DALE MILLOY	32	DC MASTERS	9:42.96	RUTH BAAR	
VICKI SMITH	25	DANI WHEELER	37	RUTH BENNETT	46	DOROTHY LA CHASSE	
STEPHANIE BIESER	24	REBECCA BENSON	40	BARBARA FRID	51	COLONIALS 1776	16:04.93
SOUTH BAY	9:09.39	LEAH HILLIS	28	ANN SVANSON	47	JEANNE MERRYMAN	70
ANN FINLEY	30	GCMT	10:44.62	ANN LYTTLE	45	FLORENCE MELICK	71
SUSIE MORTENSON	24	SARAH TRACE	32	LOS ALTOS	10:03.16	FAY BECK	66
SUSAN STORRER	29	CHERYL COOPER	33	GRACE VOSS	49	CAROLYN DERR	65
DEDE MOORE	33	DIANE CRAWFORD	26	KRISTI KING	45	SAN MATEO	16:09.33
WALNUT CREEK	9:55.41	LORRIE ROGERS	26	ARLENE PROEBSTING	50	AUDREY ETIENNE	76
MICHELLE GHIGGERI	21	35 +		CAROLYN BOAK	47	HELEN ROUMASSETT	77
JENNIFER LARSON	21	R:LOS ALTOS 90	8:52.11	LOS ALTOS	11:42.55	HILDA BUEL	78
ROSEMARY STACK	33	LAURA VAL		CLARINE ANDERSON	57	ZADA TAFT	73
JULIE MCKINLEY	35	CAROLYN BOAK		PAT BLACK	48	PACIFIC NRTHWST	19:17.84
MOUNTAIN VIEW	10:39.03	DEE HAYRIE		MARGIE WYNN	48	MARYAN BURKE	67
KELLI STEDMAN	28	CATHY SCHULBACH		DELLA SEHORN	65	MARION MUELLER	80
MO CHAMBERS	34	SAN DIEGO SWIM	9:17.21	MARYLAND MASTER	11:44.96	LEE HOLM	78
LISA KIM	24	BETSY T JORDAN	56	NANCY BROWN	57	MAXINE CARLSON	73
MICHELLE EASTER	19	NANCY S KEMPER	35	SUSAN LEVICKAS	45	75 +	
SOUTH BAY	11:44.77	MARILYN A S FINK	38	FRANCES HAYWOOD	61	R:WALNUT CREEK 93	17:31.22
NICOLE KNAP	20	BARBARA G DUNBAR	44	MARILYN LUMPKIN	49	FRIEDE SIDORSKY	
KARINA BIRD	27	COLONIALS	9:23.78	STRAWBERRY CANY	12:02.64	MARY JANE REEVES	
BEVERLY GATES	47	JILL WHITNEY	35	ARLENE WAKSBURG	47	JEAN DURSTON	
CHRISTINE BAXTED	29	DOT MUNGER	41	JUDY SARNA	53	SALLY JOY	
25 +		DEBORAH CAIN	36	J.DESBARATS	49	WALNUT CREEK	17:31.22
R:WALNUT CREEK 91	8:13.04	M KILGARIFF	35	SUSAN GARFIN	49	FRIEDE SIDORSKY	75
WENDY INGRAHM		WALNUT CREEK	9:27.50	ST PETE	12:23.32	MARY JANE REEVES	78
DEBBIE BARBER		KARA DOUDLAS	35	L.P. BROWNSTEIN	46	JEAN DURSTON	78
SUZY HANSEN		DEBBIE FLANSBURG	37	MARGIE SIMSIC	52	SALLY JOY	75
SARA SHAND		PATTY LANDERS	36	SANDY L. STEER	53	*****	
WALNUT CREEK	8:38.82	KAREN BOYER	36	ELAINE BROMWICH	49	RELAYS: M E N 200 YD. FREE	
PAULA ROEMER	31	O*H*I*O MASTERS	9:40.58	ALMADEN	13:12.20	*****	
PAM BOSCOVICH	30	JUDITH NORTON	35	MARLIYN BLISS	46	19 +	
CATHY COOLEY	36	PAM BECK	35	M.FARNSWORTH	52	R:S CAL 93	1:26.15
SUZANNE HEIM	34	PAM ALLEN	37	ROCKI KRAMER	47	PETER EGAN	
MARYLAND MASTER	8:50.59	JOANNE BOWSER	39	MARILYN SMITH	47	PETE MCLAFFERTY	
KRISTIN CORBETT	26	MARYLAND MASTER	9:47.42	S CAL	13:48.98	RICHARD DREWELOW	
DEBORAH ZIMIC	31	VIKI ALTOMONTE	43	SYLVIA GLENN	55	BRIAN KURZA	
ZENA HERRMANN	33	BARBARA PROTZMAN	38	JACQUELINE DUNLOP	61	S. CAL	1:26.15
MELISSA PETERS	34	LYNNE BRAGG	46	KOTOKO KROESEN	68	PETER EGAN	29
ALMADEN	9:00.81	ELAINE FINCHAM	38	LINDA TEPE	45	PETER MCLAFFERTY	30
SHARON BEENE	30	COLONIALS	10:04.55	55 +		RICHARD DREWELOW	23
KAREN BAERWALDT	29	J GREVULICK-BYRON	42	R:WALNUT CREEK 91	12:01.67	BRIAN KURZA	23
		STEPHANIE WALSH	43				

TOP TEN SHORT COURSE YARDS

TRIGGER AQUATIC	1:26.42	BAYLOR/L STAR	1:27.39	THE OLYMPIC CLB	1:34.24				
MARK CORBISIERO	23	ROBERT KILLEEN	31	JOHN OSTERLOH	44	55 +			
MICHAEL BRADY	25	JAMES MONTGOMERY	38	BILL BARTHOLD	44	R:OLYMPIC CLUB	90	1:42.55	
MIKE TRAVERS	25	BOBBY PATTEN	30	RANDY WILLIAMS	41	PHILIP GAY			
GEORGE CODY	35	ROBERT HUDEK	30	K.VANDER BOGART	38	DON WUDTKE			
DAVIS	1:27.61	WALNUT CREEK	1:28.60	RINCONADA	1:34.50	PHILIP CHAPMAN			
DOUG SMITH	31	THOMAS FRISTOE	33	FRED FARLEY	39	DONALD HILL			
ANDREW MCPHERSON	46	D.CADEMARTORI	27	KENNETH FATTLAR	36	THE OLYMPIC CLB		1:47.85	
C.MORGAN	21	GERALD FERRIS	32	THOMAS SCHOLER	39	LEWIS COOK		55	
GREG DAVIS	22	GEORGE SIPPLE	29	KIRK KOZLOWSKI	35	BRIAN BROWNE		58	
BEACH	1:28.53	SANTA CLARA	1:28.79	MICHIGAN	1:35.92	JAMES BOHAN		57	
TODD SELLS	25	BRAD GELBERT	31	KURT GERHARDT	42	DONALD HILL		61	
HANK WISE	25	BOB DUGAN	31	CHRIS WEBB	42	WALNUT CREEK		1:52.49	
CRAIG DOLLEY	24	MICHAEL MOORE	29	ROGER LYONS	40	DON BROWN		59	
MATT MITCHELL	25	B.LICHTENWALTER	26	WILLIAM REID	42	CHESTER WERSHILA		64	
VENICE	1:30.13	LINCOLN MASTERS	1:29.00			STAN MORNER		58	
ALONZO GALLOWAY	22	THOMAS O'HARE	26	45 +		ROBERT KAHL		59	
MIKE FRAZER	32	KURT SIMONS	30	R:TAMALPAIS	90	GISA		1:55.52	
DAVID KASTIGAR	28	TOM SMITH	27	HARRY GREENFIELD		DAVID COSTILL		57	
BRUCE STAHL	34	DAN DUMFORD	26	BOB OLSEON		FRANCIS MCAREE		62	
AIR FORCE	1:30.17	S. CAL	1:29.82	RICHARD BURNS		JOE STRAATMAN		57	
ALAN ARATA	31	GERRY RODRIGUES	30	RICHARD BAUSCHARD		JOHN PATTEN		71	
JOHN HALLMAN	28	CHRIS CHALMERS	25	THE OLYMPIC CLB	1:33.30	EMPIRE STATE		1:55.59	
ELLIS EATON	23	DON REYBURN	30	ROBERT STRAND	47	JAMES JOHNSEN		57	
EDWARD STRACK	41	WILL DOUGLAS	33	TIM BIRNIE	47	E SMETHURST		58	
WALNUT CREEK	1:30.45	STEINER	1:30.42	STEVE CLARK	49	NEIL WORTMANN		57	
RICK MILLINGTON	24	DAVID DOLL	29	JAMES ELDER	50	NORMAN SHELDON		62	
J.VERHEUL	21	DENNIS TESCH	27	LOS ALTOS	1:37.50	MARYLAND		1:55.71	
C.STRUFMPHF	19	MORI PAULSEN	35	EDWARD CAZALET	50	DONALD RICE		59	
THOMAS JOHNSON	23	M.MAKARCZYK	33	THOMAS BOAK	49	KEN POLLOCK		60	
U OF SAN FRAN	1:30.69			ROBERT PROEBSTING	55	JAMES FORSYTHE		55	
GREG MACKEM	24	35 +		DICK THOMAS	45	YU-JIN LEE		59	
CHRIS WATERS	30	R:LONE STAR	90	THE OLYMPIC CLB	1:39.45	HOLMES LUMBER		1:57.00	
MIKE RICHMAN	32	JAMES MONTGOMERY		RICHARD BASSI	52	ROGERS B. HOLMES		71	
JEFFREY PEARGIN	26	RICHARD HESS		EDWARD RUDLOFF	45	THOMAS H. KOENIG		61	
SAN LUIS	1:30.99	TRIP HEDRICK		JAMES BEGLINGER	46	TELFAIR MAHAFFY		57	
MARTIN DONOHOE	24	DAVID HAGUE		MIKE GARIBALDI	47	JACK R. BEATTIE		58	
TIM VELASCO	26	THE OLYMPIC CLB	1:31.13	WALNUT CREEK	1:40.11	ST PETE		1:58.14	
JEFFREY ROSS	23	JOHN FOOTE	42	BILL BROWN	49	HARRY M. PIPER		58	
SCOTT SWOBODA	22	JOE DIETRICH	40	THOMAS HENDREY	46	C.H. KOHNKEN		61	
THE OLYMPIC CLB	1:31.03	STUART CORLISS	37	JACK LANCE	50	RAY S. BURNS		57	
JAMES MURRAY	23	JAMES GRIFFITH	40	JESSE SMYERS	46	HAROLD FERRIS		62	
MICHAEL MEYER	27	S. CAL	1:31.27	ROCKY MOUNTAIN	1:40.17	S.CAL		2:00.48	
GARY ANTONICK	30	FRED HUBBELL	40	KENT CARNEY	45	RICHARD ROUSE		59	
MIKE KECK	33	TOM WINSLOW	40	PAUL MCCORMICK	46	PETER TAFT		57	
		STEPHEN LOWE	35	BILL ABBOTT	47	PEDRO GARCIA		68	
25 +		CLAY EVANS	39	RICHARD ABRAHAMS	48	CLIFF SLATER		58	
R:HOUSTONIAN CLUB90	1:23.34	WALNUT CREEK	1:32.32	WALNUT CREEK	1:40.34	ST. LOUIS		2:02.71	
JOHN SMITH		JOHN ROEMER	37	DONALD DALY	48	GENE BUESCHER		57	
JEFF FREY		CARY KENT	41	DENNIS BLEDSOE	54	WILLIAM CANNON		62	
CLAY BRITT		JOHN PETTIBONE	38	JAMES DELACY	46	ROBERT BLAKE		68	
SAM SEIPLE		JOHN FAWCETT	35	JAMES KING	46	DONALD GERBER		63	
WALNUT CREEK	1:25.68	LONG BEACH	1:32.52	SAN DIEGO	1:40.48	WALNUT CREEK		2:03.05	
GREG REMMERT	30	MICHAEL HEATHER	39	PETER ROMBOLD	47	STAN PEDDER		58	
STEPHEN STAHL	28	ROBERT SMITH	37	DON COMMONS	46	MIKE MILLIMAN		58	
JAMES MIDDLETON	30	JIM KRISS	43	CARL NEUMAN	50	SANDO		58	
VERNON ROGERS	32	BRUCE HOWELL	36	ROBERT WILLIAMS	50	ROBERT HALL		71	
S. CAL	1:25.83	ROCKY MOUNTAIN	1:32.85	TAMALPAIS	1:40.58				
C.CAVANAIGH	30	TOM WHATLEY	41	BOB OLSON	48	65 +			
GUY FARROW	28	CHUCK FISCHER	41	RICHARD BURNS	49	R:S. CAL AQUATIC	90	1:55.12	
CHARLES SIROKY	29	LEE MACDONALD	41	MARK LYON	49	JURGEN SCHMIDT			
NATE DERBY	25	WILLIAM REEVES	40	DUNCAN GAMLEN	45	FRANK PIEMIME			
THE OLYMPIC CLB	1:25.97	SOUTH TEXAS	1:32.90	SAN MATEO	1:40.61	BOB MERRICK			
DAVID LUNDBERG	32	PETER NUNAN	35	DON GALINE	47	GEOERGE BRINTON			
JOHN WITCHEL	25	DAVID VANDAM	37	GEORGIA BELLER	45	S. CAL		1:55.79	
JEFF STILING	32	D.RANSOM-NELSON	40	RANDY CORT	45	BOYD JOHNSON		65	
ROBERT PLACAK	34	LARRY WOOD	39	RANDY BROWN	45	FRANK PIEMME		68	
LONG BEACH	1:26.23	SOLO	1:33.32	ROLLING HILLS	1:41.23	JURGEN SCHMIDT		70	
MATTHEW MITCHELL	25	JOHN LONG	41	GEORGE VIGUIE	48	LEE ARTH		68	
TODD SELLS	26	RICHARD WOODROW	49	THOMAS KNOPH	45	LOS ALTOS		2:05.28	
CRAIG DOLLEY	25	DANIEL DAISS	39	DONALD PIERCE	47	JAY CRADDOCK		72	
BERT BERGEN	26	RICHARD EAGLESTON	43	RONALD BRYANT	45	JOHN PONISCHIL		66	

TOP TEN SHORT COURSE YARDS

JACK MCCANN	71	VICTOR CASTILLO	28	B.LICHTENWALTER	26	DAVID VANDAM	37
JOHN RICHARDS	70	CHRIS WATERS	30	F.MORTENSEN	29	PETER NUNAN	35
SAN MATEO	2:07.52	BEACH	1:40.73	STEINER	1:39.00	SOLO	1:45.70
RAY TAFT	73	CRAIG DOLLEY	24	DENNIS TESCH	27	RICHARD EAGLESTON	43
R.CUNNINGHAM	65	BRUCE HOWELL	36	DAVID DOLL	29	ROBERT BARNICK	41
FRED TAIOLI	72	F. ROBERT SMITH	37	M.MAKARCZYK	33	RICHARD WOODROW	49
EDWARD MORAN	75	BERT BERGEN	26	MORI PAULSEN	35	DANIEL DAISS	39
THE OLYMPIC CLB	2:07.56	COLONIALS 1776	1:40.74	COLONIALS	1:39.10		
FRANK GRANNIS	68	NICK COLAROSSO	30	PETER DARDARIS	34	45 +	
EDWARD RUDLOFF	69	DAVID BURT	31	MICHAEL CASCIATO	33	R:THE OLYMPIC CLB93	1:44.11
RALPH PERRY	66	JOHN GAROFALO	24	RONALD COSGROVE	25	TIM BIRNIE	
GLYNN JONES	68	ANDREW ELLIS	24	STU MARVIN	37	ROBERT STRAND	
NEW ENGLAND	2:08.34	VIRGINIA	1:40.81	S.CAL	1:39.16	JAMES ELDER	
JAMES EDWARDS	70	NEILL WILLIAMS	25	WILL DOUGLAS	33	STEVE CLARK	
TED HAARTZ	65	MICHAEL KONTOS	32	EDDIE SOFA	30	THE OLYMPIC CLB	1:44.11
WINTHROP WILSON	66	JAMES WOLFLE	24	C.CAVANAIGH	30	TIM BIRNIE	47
MILTON BRIER	65	JERRY SMITH	27	GERRY RODRIGUES	30	ROBERT STRAND	47
EMPIRE	2:10.50	DAVIS	1:41.64	U OF SAN FRAN	1:40.46	JAMES ELDER	50
GAETANO PAVONE	70	GREG DAVIS	22	DAN VEATCH	28	STEVE CLARK	49
R.BRIESEMEISTER	67	DOUG SMITH	31	DANIEL TOM	29	LOS ALTOS	1:47.78
HANS SMIT	65	CHRIS MORGAN	21	KEVIN REYNARD	27	DICK THOMAS	45
BERNARD GUTTILLA	67	ANDY MCPHERSON	46	JOHN MCCOMISH	26	THOMAS BOAK	49
ST PETE	2:13.82	AIR FORCE	1:41.82			ROBERT PROEBSTING	55
PAUL HUTINGER	68	AVERY KINTNER	31	35 +		EDWARD CAZALET	50
ROBERT D. ATWOOD	72	ELLIS EATON	23	R:COLONIALS 1776 91	1:36.66	WALNUT CREEK	1:49.29
ABRASHA BRAININ	70	JOHN HALLMAN	28	STU MARVIN		JAMES KING	46
BILL MOLVIE	74	ALAN ARATA	31	DAVE SCHMINKE		JESSE SMYERS	46
RINCONADA	2:25.75	THE OLYMPIC CLB	1:42.36	MARK SCHUMAN		JAMES DELACY	46
AUGUST MOTMANS	65	MIKE KECK	33	CHARLES NORELLI		CRAIG DENNIS	47
JOE IRVINE	82	GARY ANTONICK	30	THE OLYMPIC CLB	1:41.46	S. CAL	1:49.55
WALTER KELLER	74	MICHAEL MEYER	27	TOD SPIEKER	44	FRANS NELSON	50
HENRY HEINICHEN	71	JAMES MURRAY	23	STUART CORLISS	37	BENJAMIN FRANKLIN	52
OREGON	2:26.01	WALNUT CREEK	1:43.39	JOHN FOOTE	42	B.GRANER-GALLAS	45
MIKE POPOVICH	65	BRIAN SHAVER	20	JAMES GRIFFITH	40	KENNETH KRUEGER	47
JOSEPH A MALLON	71	JOSEPH CLEBERG	20	S.CAL	1:41.77	THE OLYMPIC CLB	1:49.93
DAVID BERNSTEIN	71	J.VERHEUL	21	PATRICK DOYLE	38	JAMES BEGLINGER	46
JOHN LAIRD	72	C.STRUFMPHF	19	KEN MIRCH	37	BOB MOMSEN	46
ROCKFORD YMCA M	2:26.97			CLAY EVANS	39	RICHARD BASSI	52
KURT SCHOENING	65	25 +		FRED HUBBELL	40	EDWARD RUDLOFF	45
JOE HOWELL	71	R:LONE STAR 91	1:31.54	WALNUT CREEK	1:41.83	TAMALPAIS	1:50.06
BRUCE ELLIOTT	66	MOOK RHODENBAUGH		VINCENT MORALES	36	RICHARD BURNS	49
BENNY ABRUZZO	66	GREG RHODENBAUGH		JOHN ROEMER	37	GARY PARLAPIANO	46
		BOBBY PATTEN		KERRY O'BRIEN	36	MARK LYON	49
		TRIP HEDRICK		JOHN PETTIBONE	38	BOB OLSON	48
75 +				MINNESOTA	1:41.86	FHA	1:52.67
R:D C MASTERS 91	2:24.77	S.CAL	1:34.16	PAUL WINDRATH	39	S.W. HOLCOMB	50
BERT KASSELL		CHARLES SIROKY	29	DARRELL SMITH	36	ALLEN J. WHITCOMB	52
CHARLES ROY		PETER MCLAFFERTY	30	JOHN EVERS	38	GEORGE O. BRICK	45
DAVID MCAFEE		PETER EGAN	29	NATHAN LEIGH	36	DAVE NAFFZIGER	45
KELLEY LEMMON		NATE DERBY	25	SAN JOSE	1:42.55	SAN MATEO	1:54.53
NO RELAY TEAMS		LONG BEACH	1:34.36	BOB JACKSON	36	DON GALINE	47
*****		CRAIG DOLLEY	25	GARY KRAGE	37	RANDY CORT	45
RELAYS: M E N 200 YD. MEDLEY		HENRY WISE	25	DONALD BACCI	40	RANDY BROWN	45
*****		MATTHEW MITCHELL	25	JEFF NAESS	36	GARY BRENNER	45
19 +		BERT BERGEN	26	LONG BEACH	1:42.75	MARYLAND	1:55.23
R:TEXAS AQUATICS 92	1:36.31	BAYLOR/L STAR	1:35.73	MICHAEL HEATHER	39	JACK ILIFF	48
ANDREW GILL		JAY YARID	30	BRUCE HOWELL	36	PETER OROSZLAN	48
ADAM WERTH		ROBERT KILLEEN	31	ROBERT SMITH	37	C.OSTROM	47
SCOTT TOBIN		BOBBY PATTEN	30	JIM KRISS	43	NED DALY	48
PETE NUNAN		JAMES MONTGOMERY	38	S.CAL	1:44.69	SAN DIEGO	1:55.33
S. CAL	1:36.63	THE OLYMPIC CLB	1:36.11	TOM WINSLOW	40	PETER ROMBOLD	47
RICHARD DREWELow	23	JOHN WITCHEL	25	WAYNE MCCAULEY	44	MERTON GUIN	52
GUY FARROW	28	DAVID LUNDBERG	32	SCOTT BEGIN	35	ROBERT WILLIAMS	50
DON REYBURN	30	ROBERT PLACAK	34	STEPHEN LOWE	35	DON COMMONS	46
BRIAN KURZA	23	JEFF STILING	32	THE OLYMPIC CLB	1:45.41		
SANTA CLARA	1:39.76	WALNUT CREEK	1:37.18	BILL BARTHOLD	44	55 +	
CAMERON REID	32	GERALD FERRIS	32	DAVID HAYNES	40	R:S. CAL AQUATIC 87	1:57.74
PETER CHARBONNEAU	23	THOMAS FRISTOE	33	K.VANDER BOGART	38	BOYD JOHNSON	
TIM CESPEDES	33	STEPHEN STAHL	28	JOE DIETRICH	40	DON HESTER	
STEPHEN GOTH	23	JAMES MIDDLETON	30	SOUTH TEXAS	1:45.54	FRANK REYNOLDS	
U OF SAN FRAN	1:39.84	SANTA CLARA	1:38.05	B.RANSOM-NELSON	40	FRANK PIEMME	
GREG MACKEM	24	MICHAEL MOORE	29	LARRY WOOD	39	THE OLYMPIC CLB	2:01.37
DANIEL TOM	29	JOHN GRAF	25				

TOP TEN SHORT COURSE YARDS

LEWIS COOK	55	ROGER FRANKS	66	ERIC FUCHS	25	NICK COLAROSSO	30
EDWARD RUDLOFF	69	BIRCH DAVIDSON	74	SAMMY FARHAD	21	KEVIN SHERMAN	29
JAMES BOHAN	57	NORMAN GARSOE	69	MARK CARRINGTON	30	DAVID BURT	31
DONALD HILL	61	ROBERT HARRIS	67	BRAD RUSSELL	23	PETER DARDAKIS	34
WALNUT CREEK	2:04.58	SAN MATEO	2:26.31	XAVIER TRIATH.	3:22.92	BERKELEY	3:28.56
DON BROWN	59	EDWARD MORAN	75	LASSE NAGELL	23	KEN FITCH	28
STAN MORNER	58	ROBERT CUNNINGHAM	65	JEFFREY PEARSON	33	TOM LAWSON	33
ROBERT KAHL	59	RAY TAFT	73	JEROME FRENTSOS	27	BENN DOYLE	34
CHESTER WERSHILA	64	FRED TAIOLI	72	BRAD SPEES	27	RICH CALLAGHAN	30
SAN DIEGO	2:06.19	S CAL	2:26.59	VENICE	3:22.92	S CAL	3:28.75
BILL EARLEY	56	GEORGE BRINTON	68	J. ROSENSTEIN	22	GERRY RODRIGUES	30
PETER RIDDLE	55	BOB MERRICK	72	MIKE FRAZER	32	P.MC CLAFFERTY	29
DONALD HUBBARD	66	LEE ARTH	68	DAVID KASTIGAR	28	MARK DYER	27
KENNETH KIMBALL	62	JOHN STERN	69	BRUCE STAHL	34	JAY CALHOUN	33
SANTA BARBARA	2:07.65	ST PETE	2:37.91	U OF SAN FRAN	3:24.26		
JOHN RIDLAND	59	BILL MOLVIE	74	M.KRAAIJVANGER	22	35 +	
ED FARRELL	60	ABRASHA BRAININ	70	MATT CEVALLOS	22	R:S CALIF AQ	90 3:23.76
JEFF FARRELL	56	PAUL HUTINGER	68	JAN PAULSON	25	PETER O'KEEFE	
JOHN BLECK	60	ROBERT D. ATWOOD	72	VICTOR CASTILLO	28	RICK PHILLIPS	
GISA	2:11.14	NIAGARA	2:39.87	S CAL	3:25.17	JOHN SECUNDA	
JOE STRAATMAN	57	AL PALMER	70	CHRIS HALL	25	FRED HUBBELL	
IVAN CHALFIE	61	HERMAN FOREST	72	RICHARD DREWELOW	23	WALNUT CREEK	3:32.16
DAVID COSTILL	57	GEORGE BAUMAN	79	JERRY SHANDREW	26	STEVE BREITER	37
FRANCIS MCAREE	62	MARTIN KILLORY	74	KEITH KAPLAN	25	JOHN ROEMER	37
MARYLAND	2:11.65	COLONIALS	2:40.02	MINNESOTA	3:28.63	KERRY O'BRIEN	36
CARL CHRISTENSEN	55	EDGAR LASSINS	73	HERB NOETZEL	20	CARY KENT	40
LOU MCCOMAS	60	WILLIAM MARINO	65	JOHN HERBERT	24	EMPIRE STATE	3:33.23
DONALD RICE	59	GEORGE MELICK	68	JON SUNDAL	25	STEVE MILLER	39
YU-JIN LEE	59	JOHN EMANUEL	68	MIKE HALPENNY	28	JOHN NEEDHAM	39
RINCONADA	2:18.11	MARYLAND	2:42.21			JOHN CHAMBERS	37
ELI GOLDFARB	67	NORRIS FLUKE	75	25 +		MATT CLARK	36
JACK HALLIDAY	55	BEACH SCHULTZ	71	R:SO.CALIF AQU	92 3:14.35	S CAL	3:33.87
ED SCHANER	63	A.EREMCHUK	66	CHRIS CAVANAUGH		FRED HUBBELL	40
RICHARD BENNETT	62	JIM GRONSETH	66	KEITH KAPLAN		ROBERT ROSS	38
EMPIRE STATE	2:20.73			PETER MCCLAFFERTY		CLAY EVANS	39
NORMAN SHELDON	62	75 +		GERRY RODRIGUES		PETER O'KEEFE	42
FOSTER DEJESUS	57	R:HOLMES LUMBER	91 2:50.76	WALNUT CREEK	3:14.46	U OF SAN FRAN	3:35.49
NEIL WORTMANN	57	WILLIAM MACKEY		STEVE STAHL	28	RICHARD ATONDO	42
RICHARD ELLIS	60	FRANK TILLOTSON		GERRY FERRIS	32	TAITE DARLINGTON	36
OREGON	2:22.60	WILLIAM GRANT		TOM FRISTOE	33	MARTY DALTON	37
JACK HOEY	83	CHARLIE DUNWORTH		GREG REMMERT	30	MIKE STRAUSS	41
ALLAN DELAY	77	NO RELAY TEAMS		SANTA CLARA	3:16.79	BERKELEY	3:38.67
FRED ECKHARDT	66	*****		GREG REMMERT	30	VINCE BRUNS	41
GEORGE H WEBER	62	RELAYS: M E N 400 YD. FREE		MIKE MOORE	29	ROB COPELAND	36
WALNUT CREEK	2:23.48	*****		CAMERON REID	32	MARTY PFINSGRAFF	38
MIKE MILLIMAN	59	19 +		B.LICHTENWALTER	26	MARK KUHN	38
FRED TRASK	65	R:COLONIALS 1776	93 3:15.05	U OF SAN FRAN	3:16.81	EMPIRE STATE	3:40.50
BOB NOOTBAR	58	ANDREW ELLIS		JOHN MCCOMISH	26	KEVIN SULLIVAN	35
STAN PEDDER	57	JOESPH THIER		DEAN PANZICA	30	JOHN EGAN	40
		JOHN GAROFOLO		CHRIS WATERS	30	JON EINSIDLER	42
		EDGAR BORJA		DAN VEATCH	28	CHARLES CARSON	38
65 +		COLONIALS 1776	3:15.05	TRIGGER AQUA	3:20.23	WEST HOLLYWOOD	3:40.66
R:S.CAL AQUATIC	93 2:09.02	ANDREW ELLIS	24	MICHAEL BRADY	25	RICHARD WIENECKE	35
BOYD JOHNSON		JOSEPH THIER	29	STEVE SHTAB	31	MARK SPRATT	37
DONALD HESTER		JOHN GAROFOLO	24	MIKE TRAVERS	25	GARY QUINN	35
FRANK PIEMME		EDGAR BORJA	32	TIM CALLAHAN	32	TOM REUDY	38
JURGEN SCHMIDT		U OF SAN FRAN	3:18.65	U OF SAN FRAN	3:21.46	MANATEES	3:44.18
S.CAL	2:09.02	GARY OTT	68	BROACK DAVIS	27	MIKE STRAUSS	41
BOYD JOHNSON	65	JOHN HARLOW	24	HERMAN BOND	30	TOM ALDERSON	41
DONALD HESTER	66	GREG MACKEM	24	KEVIN REYNARD	28	MIKE BACHOS	37
FRANK PIEMME	68	ANDY GELLER	24	MIKE RICHMAN	32	MARK HUFFMAN	35
JURGEN SCHMIDT	70	DAVIS	3:20.63	SOUTH BAY	3:21.68	MICHIGAN	3:44.22
LOS ALTOS	2:21.84	ANDY MCPHERSON	46	CHUCK PONTHER	30	KURT GERHARDT	42
JACK MCCANN	71	CHRIS MORGAN	21	BRIAN KELCA	32	ROGER LYONS	40
JOHN RICHARDS	70	DOUG SMITH	31	SCOTT SOUTHRON	28	CHRIS WEBB	42
JOHN PONISCHIL	66	GREG DAVIS	22	BRIAN JOHNSON	32	WILLIAM REID	42
JAY CRADDOCK	72	TRIGGER AQUATIC	3:22.48	U OF SAN FRAN	3:26.32	LINCOLN MASTERS	3:44.67
NEW ENGLAND	2:22.29	RICHARD ARLUCK	47	CRAIG HANNENIAN	26	THOMAS DOETSCH	40
JAMES EDWARDS	70	C NELLEN	24	JEFF PEARGIN	26	CHARLES VERNON	45
MILTON BRIER	65	GEORGE CODY	35	CHRIS LAPSEY	25	TOM CARR	40
WINTHROP WILSON	66	MARK CORBISIERO	23	DANIEL TOM	26	BOYD BLACK	36
TED HAARTZ	65	ALMADEN	3:22.62	COLONIALS 1776	3:27.60		
COLONIALS	2:24.43						

TOP TEN SHORT COURSE YARDS

45 +			NORMAN SHELDON	62	RICHARD SCHOMBURG	66	GEORGE CODY	35	
R:OREGON	93	3:35.57	SAN DIEGO	4:31.58	MICHIGAN	7:06.46	MICHAEL BRADY	25	
ROBERT SMITH			JOHN GOODE	59	DONALD MAY	72	BOB HYLAND	32	
RICHARD BOYD			GORDON GILLIN	62	GEORGE BYELICH	72	MINNESOTA	4:09.62	
DON SCHOLLANDER			KEN KIMBALL	62	DON KORTEN	66	WAYDE MULHERN	33	
STEVE JOHNSON			BILL EARLEY	56	TED KELLOGG	66	MARK TRAMPF	34	
OREGON		3:35.57	WALNUT CREEK	4:37.97			MARK WHITSIDE	27	
ROBERT S SMITH		49	MIKE MILLIMAN	58	75 +		CHRIS BROBIN	31	
RICHARD D BOYD		49	BILL MCIVOR	60	R:ST. PETE	91	6:02.78	HEARTLAND	4:17.09
DON SCHOLLANDER		46	BOB NOOTBAR	58	JOHN JOHNSTON		CHUCK HARTJE	33	
STEVE M JOHNSON		45	STAN PEDDER	58	FRANK TILLOTSON		MOZE MOSSAY	39	
SAN MATEO		3:47.64	LINCOLN MASTERS	4:47.71	KERMIT HOTVEDT		RANDALL EICKHOFF	27	
RANDY BROWN		45	RALPH JASSEN	55	WILLIAM MOLLOY		JAMES OMAHEN	27	
DON GALINE		47	JOSEPH JANY	58	NO RELAY TEAMS		HOST	4:18.14	
RANDY CORT		45	DONALD MILLER	62	*****		LANCE GORDON	36	
LARRY MOBLAD		48	WAYNE LEENGRAN	62	RELAYS: M E N 400 YD. MEDLEY		BRIAN BLACK	33	
WALNUT CREEK		3:47.73	COLONIALS 1776	4:55.06	*****		WENDELL SMITH	37	
JIM KING		46	E SHELMEKDINE	64	19 +		DREW BERKMAN	36	
DENNIS BLLEDISOE		54	B HUNGERFORD	60	R:U OF SAN FRAN	92	3:34.08	WEST HOLLYWOOD	4:23.26
TOM HENDRY		46	CHARLES BARNETT	79	GARY YANG		SCOTT GENKINGER	34	
DON DAVIS		48	ROBERT KLAGES	61	JOHN HARLOW		MATT KNIGHT	31	
LOS ALTOS		3:50.80	WIS MASTERS	5:06.42	MARK FIORITO		A. CRITCHLOW	25	
DICK THOMAS		45	LYNN SURLES	75	GREG MACKEM		R.MASTROBERTI	28	
JIM DULEY		54	ROBERT KUENY	62	DAVIS		3:52.79	35 +	
BOB PROEBSTING		55	THOMAS MICHELSON	61	SCOTT SHEA		22	R:U OF MINN	93
ED CAZALET		50	DONALD KILB	66	MATT ZINKL		22	PAUL WINDRATH	
TAMALPAIS		3:56.86	U OF SAN FRAN	5:14.61	BRIAN TIMMERMAN		22	JOHN EVERS	
MARK LYON		49	JIM FRANKEL	67	CHRIS MORGAN		21	DARRELL SMITH	
RICH BURNS		49	ED HOWES	57	SWAM		4:20.03	NATHAN LEIGH	
HUGH WINN		51	KURT HENSCH	63	JOE MURRAY		33	MINNESOTA	3:45.22
GARY PARLAPIANO		46	TERRY CARLISLE	57	ALBERT VAN DIJK		21	PAUL WINDRATH	39
DC MASTERS		3:59.92	65 +		BRYAN AUSTIN		37	DARRELL SMITH	36
ROBERT BENNETT		49	R:S CALIF AQU	90	JAMES DOLAN		41	JOHN EVERS	38
TOM BURGESS		50	4:28.95	FRANK PIEMME	MINNESOTA		4:33.87	NATHAN LEIGH	36
LEE BETTIS		55	BOB MERRICK	66	MARK WHITESIDE		27	WEST HOLLYWOOD	4:12.33
P GRUENEBERGER		46	JURGEN SCHMIDT	66	TODD HUMPHREY		30	MARK SPRATT	37
COLONIALS 1776		4:05.73	LEE ARTH	66	DZUNG TRINH		33	TOM REUDY	38
DAVID BOLDT		51	SAN MATEO	4:56.64	HERB NOETZEL		20	GARY QUINN	35
LARRY LIDDLE		49	FRED TAIOLI	72	25 +			JON BAUER	40
RICHARD MCANDREW		49	RAY TAFT	73	R:U OF SAN FRAN	92	3:35.60	MICHIGAN MASTER	4:15.01
DAN HAGAN		45	BOB CUNNINGHAM	65	KIRK JENSEN		27	RICHARD CHANEY	42
WEST HOLLYWOOD		4:10.99	ED MORAN	75	ERIC LARSON		27	STEVE HANSEN	41
PAULO FIGUEIREDO		46	S CAL	5:09.18	MATT JONES		27	FRANK THOMPSON	41
MICHAEL MEALIFFE		52	GEORGE BRINTON	68	DAN KNIGHT		27	LEONARD BROCKHAHN	42
TOM MC CLAY		47	DONALD HESTER	66	VENICE		3:54.11	WEST HOLLYWOOD	4:16.94
NEAL WIENER		48	LEE ARTH	67	DAVID KASTIGAR		28	JOE STEVENS	41
WALNUT CREEK		4:11.23	BOB MERRICK	72	TERRENCE YOUNG		27	RICK ENRIGHT	40
RON STEAGER		45	LOS ALTOS	5:14.04	PHILIP TOPAR		42	LUKE DANIEL	36
JACK LANCE		50	JIM TRIOLO	79	BRUCE STAHL		34	MIKE HARRIS	45
BILL BROWN		49	JOHN PONISCHIL	65	DAVIS		3:56.71	HEARTLAND	4:22.42
NEIL STRATTON		51	JAY CRADDOCK	71	ANDY MCPHERSON		46	DOUGLAS SELBY	47
OJAI		4:13.20	JOHN RICHARDS	70	TOM MCKENNA		41	RON SCHAFFER	35
RICK GOEDEN		46	LONG BEACH	5:25.66	DOUG SMITH		31	LEE MENCH	40
JIM BARRETT		45	BRION WINSHIP	75	MICHAEL COLLINS		27	MIKE TOPE	37
HARRY DELATRE		46	LOUIS GIBERSON	72	WEST HOLLYWOOD		3:59.59	DAVIS	4:27.01
DANIEL TURBEVILLE		45	WOODY BOWERSOCK	79	JAMES RHYNE		27	JOHN TICE	35
55 +			EMILE ACHEE	66	ROBERT FUENTES		29	PAUL TELLER	50
R:WALNUT CREEK	91	4:17.34	RINCONADA	5:47.84	RON JACOBS		27	TED DEACON	42
CHET WERSHILA			GARY OTT	67	JOSEPH FLORKA		29	CHAZZ HESSELEIN	37
STAN MORNER			C.FAIRCHILD	67	XTC		3:59.76	SWOM	4:30.90
STAN PEDDER			PAT KELLER	74	JEROME FRENTSOS		27	ROBERT SIMONS	44
DON BROWN			ALDO DA ROSA	75	BRAD SPEED		27	JAN HUNEKE	39
WALNUT CREEK		4:19.50	COLONIALS 1776	5:52.35	THOMAS ANDERSON		27	TIMOTHY HUESKEN	41
BOB KAHL		59	EDGAR LASSINS	73	MATT LANG		27	DAVID ABINERI	49
DON BROWN		59	ROBERT HANES	67	FINS		4:04.84	OJAI	4:41.83
FRED TRASK		65	ROBERT HARRIS	67	THOMAS CREECH		26	JONATHAN CHASE	35
STAN MORNER		58	NORMAN GARSOE	69	ERIC SEARCH		25	PETER CHRISTL	39
EMPIRE STATE		4:25.48	U OF SAN FRAN	6:06.98	JOHN CULHANE		37	MARC WHITMAN	35
JAMES JOHNSEN		57	FRED ROGERS	69	JIM LEACH		32	RICK SANDS	35
E SMETHURST		58	CHUCK CANNON	65	TRIGGER AQUATIC		4:06.15	GCMT	4:47.40
NEIL WORTMANN		57	RAY STEWART	66	THOMAS SCALA		30	ROBERT WRIGHT	40

TOP TEN SHORT COURSE YARDS

ROBERT HAFERTEPEN	35	FRANK TILLOTSON		GERRY RODRIGUES	30	STEVE EISNER	40
ROBERT JOYCE	44	WILLIAM MOLLOY		TOM KEATING	31	M GWIAZDOWSKI	37
HARLAND YOUNG	43	JOHN JOHNSTON		STEVE CREAMER	27	DAN CASTELLANO	42
SWOM	5:16.48	KERMIT HOTVEDT		MARK DYER	27	STEPHEN BENTZ	36
DAVID FLOWER	42	NO RELAY TEAMS		OREGON	7:59.18	MOUNTAIN VIEW	8:52.03
ROBERT WILLIAMS	54	*****		MIKE L PENDLETON	41	JOHN RIZZO	36
GREGORY SCHRAND	50	RELAYS: M E N 800 YD. FREE		MATHEW J ROTH	26	BART SELBY	37
GEORGE MCATEE	42	*****		JOHN F ZELL	36	KENT WESTPHAL	36
		19 +		TOM KAHL	27	LOWELL STAVELAND	35
45 +		R:STANFORD	92 7:22.25	WEST HOLLYWOOD	7:59.84	MICHIGAN MASTER	8:57.60
R:LOS ALTOS	92 4:10.46	ANDY WONG		GARY QUINN	34	KEVIN WHITE	35
ED CAZALET		TIM BRODERICK		DAVID NEWMAN	27	ANDY DONATO	36
TOM BOAK		JOE MADER		JAMES RHYNE	27	FRANK THOMPSON	41
BOB PROEBSTING		SPENCER ELDRED		SCOTT GENKINGER	33	LEONARD BROCKHAHN	42
DAVE GRAY		XAVIER TRIATH.	7:29.09	HEARTLAND	8:00.87		
ST PETE	4:52.65	JEFFREY PEARSON	33	RANDALL EICKHOFF	27	45 +	
PETER R. BETZER	50	BRAD SPEES	27	JAMES OMAHEN	27	R:OREGON	93 8:01.37
RAY S. BURNS	57	JEROME FRENTSOS	27	CHUCK HARTJE	33	RICHARD BOYD	
STEVEN D. GRAU	47	LASSE NAGELL	23	LEE MENCH	40	DON SCHOLLANDER	
JOHN P. BISHOP	47	SANTA CLARA	7:37.32	MINNESOTA	8:09.78	ROBERT SMITH	
OJAI	5:08.31	MIKE MOORE	29	CAREY REHDER	27	STEVE JOHNSON	
DANIEL TURBEVILLE	45	BOB DUGAN	31	ROBERT HAIDER	33	OREGON	8:01.37
HARRY DELATRE	46	RIAN HUSTON	24	MATT STEVENS	33	RICHARD D BOYD	49
RICK GOEDEN	46	FRANZ MORTENSEN	28	TIM JOHNSON	36	DON SCHOLLANDER	46
JIM BARRETT	45	COLONIALS 1776	7:37.68	PACIFIC NRTHWST	8:10.53	ROBERT S SMITH	49
GOST	5:26.90	JIM MACK	29	LARRY DE GROEN	31	STEVE M JOHNSON	45
E.B. LUNKEN	51	ANDREW KRAMER	30	MACK OSBORN	36	LOS ALTOS	8:32.93
JOSEPH PESCHEL	48	EDGAR BORJA	32	BILL FENNER	37	DAVE GRAY	47
ROBERT KOENIG	55	ANDREW ELLIS	24	STEPHEN WRIGHT	34	BOB PROEBSTING	55
TOM HERR	47	S CAL	7:40.42			ED CAZALET	50
HEARTLAND	6:27.15	CHRIS HALL	25	35 +		TOM BOAK	49
RUDOLPH SAPPER	60	KEITH KAPLAN	25	R:MINNESOTA	92 7:37.33	STRAWBERRY CANY	9:26.88
JERRY O'MARA	46	JERRY SHANDREW	26	JAMES STEWART		DON RHETT	49
DAVID SZUCH	50	RICHARD DREWELOW	23	PAUL WINDRATH		ANDREW CASSIDY	47
EUGENE GORROW	66	VENICE	8:16.33	NATHAN LEIGH		JERRY ABAD	54
		J. ROSENSTEIN	22	LARRY KRAUSER		JEFF ROOT	47
55 +		STEPHEN JOYCE	21	SAN DIEGO SWIM	7:59.21	WALNUT CREEK	9:35.30
R:WALNUT CREEK	91 4:55.98	MIKE FRAZER	32	JEFFERY C MILTON	37	JIM KING	45
MIKE MILLIMAN		DAVID KASTIGAR	28	WILLIE C WACHOB	40	STAN MORNER	58
CHET WERSHILA		S CAL	8:32.76	STEVE A GENTES	42	MIKE MILLIMAN	58
STAN MORNER		ERNIE HOFTYZER	23	CHRIS J DAY	39	TOM HENDRY	45
STAN PEDDER		MARK JEN	23	EMPIRE STATE	7:59.23	S CAL	9:38.85
SAN DIEGO	5:28.64	CHAD YOUNG	28	JOHN NEEDHAM	39	BOO GRANER-GALLAS	45
JOHN GOODE	59	BERNARD ORMSBY	27	BUCK BROKER	37	HANS BRINCKERHOFF	45
PETER RIDDLE	55			GEORGE STEERS	39	WILLIAM LITENBERG	52
BILL EARLEY	56	25 +		MATT CLARK	36	BEN FRANKLIN	51
KEN KIMBALL	62	R:LONG BEACH	93 7:06.78	WALNUT CREEK	8:05.63	OJAI	10:01.41
SAN DIEGO	5:55.86	HANK WISE		KERRY O'BRIEN	35	RICK GOEDEN	46
GORDON GILLIN	62	MATT MITCHELL		CARY KENT	40	JIM BARRETT	45
FRED WADSWORTH	64	TODD SELLS		MIKE MCGOWAN	40	DANIEL TURBEVILLE	45
DON HUBBARD	65	TIM HENNESSY		CHRIS STEWART	41	HARRY DELATRE	46
JERRY SIEFERT	75	LONG BEACH	7:06.78	S CAL	8:25.93	LOS ALTOS	10:26.55
WIS MASTERS	6:42.49	HANK WISE	25	PETER O'KEEFE	42	BARRY DOOLEY	48
THOMAS MICHELSON	61	MATT MITCHELL	25	ROBERT ROSS	38	JIM MCCOY	50
ROBERT SWAIN	55	TODD SELLS	25	JOHN YARBROUGH	42	JACK MCCANN	72
DONALD KILB	66	TIM HENNESSY	26	CLAY EVANS	39	JOHN PONISCHIL	66
HARLAN DRAKE	64	SOUTH BAY	7:32.12	WEST HOLLYWOOD	8:38.34	SWOM	10:54.07
		CHUCK PONTHER	30	MARK SPRATT	37	ROBERT WILLIAMS	54
65 +		BRIAN KELCA	32	GARY BAUER	40	KEN HEUCK	48
R:COLONIALS	92 5:18.61	SCOTT SOUTHRON	28	JOHN QUINN	35	GREGORY SCHRAND	50
ROGER FRANKS		BRIAN JOHNSON	32	TOM REUDY	38	DAVID ABINERI	49
NORMAN GARSOE		WALNUT CREEK	7:32.15	HEARTLAND	8:40.83	GOST	11:07.75
BIRCH DAVIDSON		GREG REMMERT	31	JOHN RAHM	36	TOM HERR	47
JOHN EMANUEL		DAVE COOL	32	DOUGLAS SELBY	47	E.B. LUNKEN	51
COLONIALS 1776	5:43.31	TOM DUGAN	34	RON SCHAFFER	35	ROBERT KOENIG	55
SAMUEL FOSTER	67	STEVE STAHL	28	MIKE TOPE	37	JAMES GARVIN	58
HELMUT GUDE	67	SANTA CLARA	7:33.90	ALMADEN	8:44.62	ALMADEN	12:22.82
ROGER FRANKS	66	TIM SHERIDAN	28	WALT DENDAAS	35	JOE BECKER	47
WILLIAM MARINO	65	ROB SCHMIDT	28	TOM SAVASO	37	DAVE KORB	49
		TIMCESPEDES	32	DAVE WHEELER	36	BRIAN SMITH	48
75 +		CAMERON REID	31	JEFF NEUROTH	46	ROSSE HEMEON	62
R:ST. PETE	91 6:55.99	S CAL	7:46.76	COLONIALS	8:45.54		

TOP TEN SHORT COURSE YARDS

55 +			STEVE MUCHOW	23	SARAH TURNER	31	R:TAMALPAIS	90	1:41.83
R:WALNUT CREEK	92	9:41.77	BARBARA BISHOP	30	ELLEN FERGUSON	30	HARRY GREENFIELD		
STAN MORNER			SUSAN JONES	26	PETER EGAN	29	ANGELA KONIG		
FRED TRASK			S. CAL	1:35.77	WALNUT CREEK	1:36.69	NANCY RIDOUT		
MIKE MILLIMAN			RICHARD DREWELOW	23	P.BOSCOVICH	30	RICHARD BAUSCHARD		
DON BROWN			JEANIE CHICKE	23	PEGGY FAWCETT	33	LOS ALTOS	1:43.62	
SAN DIEGO	10:37.00		GERRY RODRIGUES	30	GREG REMMERT	30	EDWARD CAZALET	50	
KEN KIMBALL	62		KATE EGAN	21	JEFFREY RODGERS	26	DICK THOMAS	45	
GORDON GILLIN	62		WALNUT CREEK	1:35.82	SOUTH BAY	1:39.83	CAROLYN BOAK	48	
FRED WADSWORTH	64		MICHELE GHIGGERI	24	BRIAN KELCA	32	ARLENE PROBESTING	50	
BILL EARLEY	56		JANIS HACHIYA	20	DEDE MOORE	33	ROCKY MOUNTAIN	1:44.16	
			C.STRUFMPHF	19	SCOTT SOUTHRON	28	RICHARD ABRAHAMS	48	
65 +			DANIEL BLEDSOE	23	CAROLE SHIGAKI	37	PAUL MCCORMICK	46	
R:SCAQ	93	10:40.71	LOS ALTOS	1:36.32			JEAN WOOD	45	
LEE ARTH			RANDY COX	30	35 +		JUDY REED	49	
JURGEN SCHMIDT			AIMEE LEHR	25	R:LONE STAR	91	1:34.75	TAMALPAIS	1:46.84
BOB MERRICK			NANCY AUGLIERA	29	TRIP HEDRICK			RICH BURNS	49
FRANK PIEMME			RADFORD LEHR	23	RICHARD HESS			MARK LYON	49
S CAL	10:40.71		S. CAL	1:36.52	MALINDA ARVESEN			NANCY RIDOUT	51
LEE ARTH	68		LEZLIE GRUENLER	30	L. MORRISON-CASEY			JANE NICHOLS	51
FRANK PIEMME	68		ANDREA BARDIN	24	S. CAL	1:37.52		DC MASTERS	1:48.94
JURGEN SCHMIDT	70		WILL DOUGLAS	33	FRED HUBBELL	40		THOM BURGESS	50
BOB MERRICK	72		DON REYBURN	30	CLAY EVANS	39		ANN SVANSON	47
COLONIALS	11:13.00		SOUTH BAY	1:37.25	KAREN MELICK	36		ANN LYTLE	45
ROGER FRANKS	66		ANN FINLEY	30	BONNIE ADAIR	40		LARRY SLOAN	45
WILLIAM MARINO	65		BRIAN JOHNSON	32	NEW ENGLAND	1:39.79		LOS ALTOS	1:50.62
BIRCH DAVIDSON	74		SUSIE MORTENSON	24	EDWIN PYLE	43		ROBERT PROEBSTING	55
JOHN EMANUEL	68		CHUCK PONTHER	30	BRUCE MOHL	47		THOMAS BOAK	49
COLONIALS	13:23.77				JOEL FELDMANN	41		KRISTINA KING	45
HENRY SHOSTCHUK	75		25 +		JENNIFER LUKER	36		GRACE VOSS	49
ROBERT HARRIS	67		R:S. CAL AQUATIC	90	1:29.40	WALNUT CREEK	1:39.92	RINCONADA	1:51.48
JAMES FEENAN	73		CHUCK PONTHER			PATTY LANDERS	36	SUE KELLY	45
NORMAN GARSOE	69		DIANE GRANER			CATHY COOLEY	35	JAMES SHAW	52
			KRISTINE BUSH			JOHN ROEMER	37	NANCY BROOKS	50
			PETER MCCLAFFERTY			JOHN PETTIBONE	38	BILL LORTON	50
75 +			WALNUT CREEK	1:31.23		JOHN PETTIBONE	38	BILL LORTON	50
R:ST. PETE	90	13:46.24	SARA SHAND	29	PACIFIC NRHWST	1:41.97		GISA	1:52.72
WILLIAM MOLLOY			PAULA ROEMER	32	MARK LIST	37		DAVID COSTILL	57
FRANK TILLOTSON			JAMES MIDDLETON	30	ALAN BELL	43		JOHN FASTRICH	51
KERMIT HOTVEDT			STEPHEN STAHL	28	CAROL BROWN	41		BEA HACKETT	48
FRED WALBOLT			S. CAL	1:31.70	BONNIE LIST	35		SHARON WISE	46
NO RELAY TEAMS			C.CAVANAIGH	30	WALNUT CREEK	1:42.14		S. CAL	1:53.66
*****			NATE DERBY	25	SHARON ODELL	40		DIANA TODD	49
RELAYS: MIXED 200 YD. FREE			D.GRANER-GALLAS	29	CAROL BREITER	37		SYLVIA GLENN	55
*****			A.MIDDAUGH	28	CARY KENT	41		FRANS NELSON	50
19 +			ROCKY MOUNTAIN	1:32.13	STEVE BREITER	36		B.GRANER-GALLAS	45
R:LONG BEACH	93	1:31.16	VANCE HOWARD	32	CHICO	1:42.18		LONG BEACH	1:56.97
BERT BERGEN			HOLDEN BANK	33	LESLIE DEFOE	35		DAVE FRANK	49
MATTHEW MITCHELL			ELLEN ATKINSON	30	M.HERNANDEZ	36		TOM TRAPP	48
SHERRY GAERTNER			DANA DUTCHER	25	R.BRITTINGHAM	41		MIMI FRANK	45
PEGGY GROSS			DAVIS	1:33.58	FRANK MENDOZA	41		LUCY JOHNSON	45
LONG BEACH	1:31.16		C.CHICHESTER	29	ROCKY MOUNTAIN	1:42.56		LAKESIDE	1:57.14
BERT BERGEN	26		JON TICE	35	TOM WHATLEY	41		THEODORE WATHEN	46
MATTHEW MITCHELL	25		JENNIFER NORRIS	26	WILLIAM REEVES	40		JEAN HENDERSON	46
SHERRY GAERTNER	29		DOUG SMITH	31	LAURA SKOTNICKI	39		THOMAS FINNEGAN	46
PEGGY GROSS	24		SANTA CLARA	1:33.98	KATHLEEN MARVIN	42		CAROL FERGUSON	61
VIRGINIA	1:33.02		F.MORTENSEN	29	LOS ALTOS	1:43.02			
BETH GARDNER	27		DARBY ELLEMAN	32	CARL COLVARD	37		55 +	
NEILL WILLIAMS	25		LESLEY CHEQUER	27	LAURA VAL	41		R:SOUTHERN CAL	87
JAMES WOLFFLE	24		B.LICHTENWALTER	26	JOHN WALKER	37		JOHN HOWE	
ALICE PHILLIPS	27		U OF SAN FRAN	1:34.06	C.SCHULBACH	39		ANN ADAMS	
S. CAL	1:33.40		JOHN MCCOMISH	26	STANFORD	1:43.11		PETER BUCKLEY	
CHARLES SIROKY	29		JILL ROTHKOPF	28	JUDY HELLER	37		GAIL ROPER	
SUSIE BURT	21		KELLY ASPLUND	31	TIM BRODERICK	42		RINCONADA	2:01.37
PAMELA URBAS	21		DAN VEATCH	28	TOM MONICA	35		RICHARD BENNETT	62
BRIAN KURZA	23		WALNUT CREEK	1:34.94	EILEEN WALL	35		BARBARA CALLISON	60
U OF SAN FRAN	1:35.54		KATHLEEN MENCH	30	GISA	1:43.42		ANN KAY	59
JENNY TOLON	22		KIRA MCDONOUGH	26	JEAN TRACY	38		JACK HALLIDAY	56
GARY YANG	24		VERNON ROGERS	32	MARY ANN STEVENS	39		SAN DIEGO	2:02.69
BRENDA WIKLUND	24		D.CADEMARTORI	27	BOB DICKSON	37		KEN KIMBALL	62
GREG MACKEM	24		S. CAL	1:36.54	GARY HALBERSTADT	39		JEANNE LITTLE	56
MARYLAND	1:35.76		GUY FARROW	28				BETSY JORDAN	56
TOM VERDIN	31				45 +			BILL EARLEY	56

TOP TEN SHORT COURSE YARDS

WALNUT CREEK	2:04.08	RINCONADA	2:41.69	SHERRY GAERTNER	29	JAY YARID	30
DON BROWN	59	TERRI ACHELIS	70	BRUCE HOWELL	36	BARRY HAMILTON	40
CHESTER WERSHILA	64	ELOISE DANTO	65	CRAIG DOLLEY	24	MICHELLE CHOW	25
ANN PISCIOTTA	62	GARY OTT	69	PEGGY GROSS	24	K.CULERTSON	34
BARBARA JORDAN	55	C.FAIRCHILDS	67	S. CAL	1:48.49	OREGON	1:48.84
U OF SAN FRAN	2:06.90	SAN MATEO	2:43.00	RICHARD DREWELOW	23	JILL BLACK	30
CAROL REQUADT	55	ZADA TAFT	73	PAMELA URBAS	21	MATTHEW ROTH	26
EDWARD HOWES	58	RAY TAFT	73	GERRY RODRIGUES	30	GARY SQUIRES	29
GAIL ROPER	63	R.CUNNINGHAM	65	JEANIE CHICKE	23	GRACIE GODDARD	33
TERRY CARLLISLE	58	HILDA BUEL	79	ANCIENT MARINER	1:49.35	CONNECTICUT	1:49.91
ST PETE	2:10.01	OREGON	2:53.54	JEFFREY RODDIN	24	PAUL FRENTSOS	31
RAY S. BURNS	57	KATHLEEN A HUGHES	66	BRIAN CRILLY	24	ELIZABETH FRY	34
KATE KNIGHT-PERRY	57	EARL WALTER	71	JILL RODDIN	22	DONALD SKEOCH	30
J.G. PIPER	56	JUDY M MELCHER	72	TRACEY CRILLY	23	LIZ HOBBS	31
HAROLD FERRIS	62	ANDREW W HOLDEN	73	SOUTH TEXAS	1:49.89		
MARYLAND	2:11.08	ST PETE	2:58.09	NINA RADOJEVICH	21	35 +	
DONALD RICE	59	F.E. CICHANSKI	75	HARLAN LAWSON	22	R:S. CAL AQUATIC 92	1:44.23
NANCY BROWN	57	ROBERT S. PATTON	70	EMILY RAMIREZ	20	CLAY EVANS	
FRANCES HAYWOOD	61	KAY M. SCHIMPF	75	PETER NUNAN	35	KAREN MELICK	
YU-JIN LEE	59	JAMES R. SKINNER	70	S. CAL	1:50.75	JIM BELARDI	
WALNUT CREEK	2:12.18	HOLMES LUMBER	2:59.89	SHANNON DAVIES	20	BONNIE ADAIR	
ROBERT KAHL	59	JOAN M. GLARATON	65	EDDIE SOFA	30	S. CAL	1:47.77
STAN MORNER	58	DICK LYMAN	74	MICHAEL MAHONEY	23	CLAY EVANS	39
DONNA MONROE	59	M.R. NEWMAN	69	KATE EGAN	21	KAREN MELICK	36
JOAN ALEXANDER	61	F.H. TILLOTSON	78	WALNUT CREEK	1:50.83	FRED HUBBELL	40
SACRAMENTO	2:15.96			THOMAS JOHNSON	23	BONNIE ADAIR	40
DOT WERRY	56	75 +		KAREN HEARD	22	WALNUT CREEK	1:49.51
ELLEN VOSE	63	R:RINCONADA	87 2:44.49	J.VERHEUL	21	PATTY LANDERS	36
TAK ISERI	61	ART RULE		ANNE OBERG	21	JOHN ROEMER	37
LUMAN SUTTON	66	BEE JOHNSON				KERRY O'BRIEN	36
MAC	2:23.69	ELLEN TAIT		25 +		CATHY COOLEY	35
JOYCE BAHLER	63	JOE IRVINE		R:LONE STAR	91 1:39.01	WALNUT CREEK	1:50.58
LEE MIESEN	65	SAN MATEO	2:48.96	MOOK RHODENBAUGH		VINCENT MORALES	36
TOM FALK	57	AUDREY ETIENNE	76	GREG RHODENBAUGH		CRAIG CONRAD	38
LAVELLE STAINOFF	60	HELEN ROUMASSET	77	VAL KERR-HAUGE		DEBBIE FLANSBURG	37
ST PETE	2:24.84	EDWARD MORAN	75	AMY PLESS		SHARON ODELL	40
HARRY M. PIPER	58	WALT WELLS	75	S. CAL	1:43.22	LONG BEACH	1:53.03
B.J. TUCKER	58	ST PETE	3:03.28	D.GRANER-GALLAS	29	MICHAEL HEATHER	39
BARBARA A. ALLEN	59	F.E. CICHANSKI	76	GUY FARROW	28	BRUCE HOWELL	36
C.H. KOHNKEN	61	JOHN D. JOHNSTON	77	PETER EGAN	29	LUCY JOHNSON	45
		KAY M. SCHIMPF	75	A.MIDDAUGH	28	MIMI FRANK	46
65 +		KERMIT D. HOTVEDT	78	S. CAL	1:45.08	LOS ALTOS	1:54.88
R:LOS ALTOS	93 2:07.24	*****		WILL DOUGLAS	33	CARL COLVARD	37
JAY CRADDOCK		RELAYS: MIXED 200 YD. MEDLEY		PETER MCLAFFERTY	30	C.SCHULBACH	39
DELLA SEHORN		*****		CINDY LICHTMAN	29	STEVEN STRONG	38
BERNA BENNETT		19 +		ELLEN FERGUSON	30	LAURA VAL	41
JOHN RICHARDS		R:H2OUSTON	92 1:42.81	ROCKY MOUNTAIN	1:45.60	NEW ENGLAND	1:55.79
LOS ALTOS	2:07.24	STACY JONES		DANA DUTCHER	25	JOEL FELDMANN	41
JAY CRADDOCK	71	DAVID GUTHRIE		HOLDEN BANK	33	EDWIN PYLE	43
DELLA SEHORN	65	RUSS KNEIPP		ELLEN ATKINSON	30	JENNIFER LUKER	36
BERNA BENNETT	65	SHERRI WELDON		VANCE HOWARD	32	JONATHAN ROURKE	38
JOHN RICHARDS	70	VIRGINIA	1:44.11	WALNUT CREEK	1:46.77	EMPIRE STATE	1:55.87
HOLMES LUMBER	2:22.23	BETH GARDNER	27	P.BOSCOVICH	30	KAREN FARNSWORTH	36
RICHARD L. AVERY	70	NEILL WILLIAMS	25	THOMAS FRISTOE	33	CRAIG SAINT-AMOUR	40
FLORENCE E. CARR	67	JAMES WOLFLE	24	SARA SHAND	29	SCOTT SCHLIEMAN	41
JUNE B. REYNOLDS	71	ALICE PHILLIPS	27	JAMES MIDDLETON	30	JILL FRIEDMAN	36
ROGERS B. HOLMES	71	S. CAL	1:45.74	WALNUT CREEK	1:47.08	CHICO	1:55.99
RINCONADA	2:25.65	SUSIE BURT	21	PAULA ROEMER	32	FRANK MENDOZA	41
PATSY WEISS	70	C.CAVANAIGH	30	KIRA MCDONOUGH	26	JOHN ECKALBAR	44
NAN BLACKLEDGE	68	ANDREA BARDIN	24	D.CADEMARTORI	27	LESLIE DEFOE	35
ALDO DA ROSA	75	BRIAN KURZA	23	GREG REMMERT	30	R.BRITTINGHAM	41
HENRY HEINICHEN	71	SOUTH BAY	1:46.56	O*H*I*O MASTERS	1:47.13	SAN DIEGO	1:56.60
WIS MASTERS	2:27.86	SUSIE MORTENSON	24	ERIN E. BORDEN	31	NED MAGGIORA	38
JOSEPHINE PALLIN	72	CAROLE SHIGAKI	37	KARL KAZMAIER	37	CHRIS DIXON	35
S.HASSELBACHER	66	CHUCK PONTHER	30	JENNIFER UEBELE	28	BARBARA DUNBAR	44
DONALD KILB	66	BRIAN JOHNSON	32	JACK GROSELLE	38	DIANA DOLAN-EVANS	35
LYNN SURLLES	75	AIR FORCE	1:47.50	SANTA CLARA	1:47.81	SOLO	1:56.74
WALNUT CREEK	2:29.48	ANNA RAY	29	MICHAEL MOORE	29	JANE SWAGERTY	41
FRED TRASK	65	ELLIS EATON	23	DARREN MCCARTHY	27	RICHARD EAGLESTON	43
WILLIAM JOHNSTON	74	KIMBERLY ARATA	33	SUSIE BLAKE	27	RICHARD WOODROW	49
ELFRIEDE ROGERS	65	AVERY KINTNER	31	DARBY ELLEMAN	32	MARCY BULLOCK	50
JACQUIE PLACAK	68	LONG BEACH	1:47.54	BAYLOR/L STAR	1:48.08		

TOP TEN SHORT COURSE YARDS

45 +				63	M. KNOCHENHAUER	66	SAN DIEGO	3:57.39
R:TAMALPAIS	92	1:54.80	WALNUT CREEK	2:16.99	MICHIGAN	3:07.40	JUDY A NELSON	31
RICHARD BURNS			BARBARA JORDAN	55	EDITH GLUSAC	74	ERIC E NEILSEN	26
GARY PARLAPIANO			ANN PISCIOTTA	62	LOIS NOCHMAN	68	CHRISTINE RADASKY	20
JANE NICHOLS			STAN MORNER	58	RICHARD EVANS	68	NED MAGGIORA	37
NANCY RIDOUT			ROBERT KAHL	59	DONALD MAY	72	WALNUT CREEK	4:00.91
LOS ALTOS		1:57.17	RINCONADA	2:19.83	OREGON	3:11.61	MICHELLE GHIGGERI	27
DICK THOMAS		45	RICHARD BENNETT	62	EARL WALTER	71	PATRICK OWENS	30
THOMAS BOAK		49	ALDO DA ROSA	75	JUDY M MELCHER	72	JENNIFER LARSON	20
CAROLYN BOAK		48	BARBARA CALLISON	60	ANDREW W HOLDEN	73	PAUL TUREK	28
ARLENE PROBESTING		50	ANN KAY	59	KATHLEEN A HUGHES	66	STRAWBERRY CANY	4:01.00
OREGON		2:01.01	HOLMES LUMBER	2:22.58	HOLMES LUMBER	3:16.24	STEPHANIE BEISER	24
ROBERT SMITH		50	JACK BEATTIE	58	F.H. TILLOTSON	78	CHERYL LONGFELLOW	23
GINGER PIERSON		47	ERNESTIE BEATTIE	56	JEAN A. BEERS	70	CHRIS GLEASON	21
SANDI ROUSSEAU		45	MIKE TSCHIRRET	57	GERTRUD J. ZINT	75	PAUL ENDRES	29
GEORGE THAYER		57	FLORENCE CARR	67	DICK LYMAN	74	UNIVERSITY CIRC	4:06.49
TAMALPAIS		2:02.20	WALNUT CREEK	2:23.91	ST PETE	3:27.75	MARK ASSEL	29
RICHARD BURNS		49	DON BROWN	59	F.E. CICHANSKI	75	K.BEHRINGER	23
GARY PARLAPIANO		46	YOLANDE HOSS	59	JAMES R. SKINNER	70	SHELLEY MASON	28
NANCY RIDOUT		51	JOAN ALEXANDER	61	KAY M. SCHIMPF	75	MICHAEL JORN	36
RUTH WINN		50	CHESTER WERSHILA	64	FRED B. WALBOLT	70	ALHANBRA	4:14.03
S. CAL		2:04.17	ST.PETE	2:31.69	WALNUT CREEK	3:31.68	LAUREL LAND	23
FRANS NELSON		50	BARBARA A. ALLEN	59	PATRICIA PREVETZ	72	WENDY STONESIFER	33
HELEN GEOFFRION		54	HARRY M. PIPER	58	JAE HOWELL	70	FABIO ASTUDILLO	40
B.GRANER-GALLAS		45	RAY S. BURNS	57	ERNEST KASSNER	69	BILL DARBY	45
DIANA TODD		49	J.G. PIPER	56	ROBERT HALL	71	ATOM	4:20.70
DC MASTERS		2:04.78	MARYLAND	2:32.85	75 +		RODNEY SELLARS	27
SHELDON MONSEIN		58	NANCY BROWN	57	R:D.C. MASTERS	92	PAIGE MACLEOD(F)	28
JOANN LEILICH		54	A.EREMCHUK	67	ANNE WALKER	3:11.96	CHRIS BAUCOM(M)	32
BABARA FRID		51	DONALD RICE	59	KELLEY LEMMON		J.SORRENTINO(F)	19
LARRY SLOAN		45	FRANCES HAYWOOD	61	NANCY CLARK		MINNESOTA	4:24.11
LOS ALTOS		2:07.19	LOS ALTOS	2:33.63	BERT KASSELL		PATRICK BISCHEL	40
EDWARD CAZALET		50	DELLA SEHORN	65	SAN MATEO	3:19.56	MARY TIERNEY	39
RANDY BROWN		45	JOHN PONISCHIL	66	HELEN ROUMASSET	77	SCOTT SAKAGUCHI	39
KRISTINA KING		45	BOB PROEBSTING	55	WALTER WELLS	75	AMY PATTON	23
GRACE VOSS		49	CLARINE ANDERSON	57	EDWARD MORAN	75	25 +	
GISA		2:07.35	SANTA BARBARA	2:34.70	AUDREY ETIENNE	76	R:U OF SAN FRAN	92
GEORGE QUIGLEY		52	PEGGY SANBORN	65	ST PETE	3:27.14	DAN KNIGHT	3:27.39
BEA HACKETT		48	EDWARD FARRELL	60	F.E. CICHANSKI	76	KELLY ASPLUND	
DAVID COSTILL		57	JEFF FARRELL	56	JOHN D. JOHNSTON	77	MICHELLE YOUNG	
SHARON WISE		46	GRACE ALTUS	69	KAY M. SCHIMPF	75	MATT JONES	
ROCKY MOUNTAIN		2:09.30	65 +		KERMIT D. HOTVEDT	78	WALNUT CREEK	3:38.79
RICHARD ABRAHAMS		48	R:LOS ALTOS	93	MICHIGAN	3:48.92	DAVE COOL	32
BILL ABBOTT		47	JACK MCCANN	2:26.68	PAUL THOMPSON	83	SUZANNE HEIM	34
JUDY REED		49	JOHN RICHARDS		JEWELL COOKE	84	PAM BOSCOVICH	30
JEAN WOOD		45	DELLA SEHORN		FRANCES MORSE	76	GREG REMMERT	31
DAVIS		2:10.06	BERNA BENNETT		HAM MORNINGSTAR	76	SANTA CLARA	3:40.21
ROBERT NORRIS		54	LOS ALTOS	2:26.68	*****		BOB DUGAN	29
GAYLE BONDURANT		46	JACK MCCANN	71	RELAYS: MIXED 400 YD. FREE		BETH SEATON	25
ANDREW MCPHERSON		46	JOHN RICHARDS	70	*****		LESLIE CHEQUER	27
SUSAN MUNN		54	DELLA SEHORN	65	19 +		FRANZ MORTENSEN	28
RINCONADA		2:11.67	BERNA BENNETT	65	R:U OF SAN FRAN	92	COLONIALS 1776	3:45.31
CHRISTOPHER PRAEL		51	RINCONADA	2:48.71	GREG MACKEM	3:25.18	ANDREW KRAMER	30
NANCY BROOKS		50	NAN BLACKLEDGE	68	JENNIFER SADLER		JIM MACK	29
JAMES SHAW		52	PATSY WEISS	70	BRENDA WICKLUND		DIANE MUNTZER	30
SUE KELLY		45	AUGUST MOTMANS	65	GARY YANG		LESLEY MATHESON	32
55 +			ELI GOLDFARB	67	COLONIALS 1776	3:34.84	ALMADEN	3:46.24
R:D.C. MASTERS	92	2:10.35	WALNUT CREEK	2:51.05	ANDREW ELLIS	24	M. CARRINGTON	32
SKIP MONSEIN			JACQUIE PLACAK	68	EDGAR BORJA	32	ERIC FUCHS	25
KENNETH FLYNN			ELFRIEDE ROGERS	65	ELIZ BEAUSANG	24	LESLIE PINKNEY	30
BETTY BREY			FRED TRASK	65	LAURIE HUG	28	JANICE LESYNA	25
JAYNE BRUNER			WILLIAM JOHNSTON	74	SOUTH BAY	3:42.84	HEARTLAND	3:54.79
SAN DIEGO		2:16.14	HOLMES LUMBER	2:55.30	SUSIE MORTENSON	24	DIANE MENDOZA	32
BETSY JORDAN		56	ROGERS B. HOLMES	71	BRIAN JOHNSON	32	LEE MENCH	40
PETER RIDDLE		55	RICHARD L. AVERY	70	CHUCK PONTHER	30	RANDALL EICKHOFF	27
BILL EARLEY		56	JUNE B. REYNOLDS	71	JENNIFER O'CONNOR	30	KELLI DOLE	34
JEANNE LITTLE		56	FLORENCE E. CARR	67	LOS ALTOS	3:45.47	ALMADEN	3:55.51
GOLD COAST		2:16.48	SAN MATEO	2:56.29	KATIE KELLOGG	24	DAVE WHEELER	36
MARGARET TIMMINS		63	ZADA TAFT	73	SUSAN WILLIS	24	TOM SAVASO	37
ANNE MCGUIRE		58	FRED TAIOLI	72	RANDY COX	30	SHARON BEENE	30
HERB KERN		61	RAY TAFT	73	BILL OLIVER	31	KARNE BAERWALDT	29

TOP TEN SHORT COURSE YARDS

MOUNTAIN VIEW	3:56.89	RALEIGH AREA	4:20.39	BETSY JORDAN	56	JENNY TOTEN	22
LOWELL STAVELAND	35	BRUCE MALLETTE	40	BILL EARLEY	56	GARY YANG	24
SUZANNE TOPP	25	CEIL BLACKWELL(F)	52	LOS ALTOS	4:55.45	JANET HAUER	24
JULIE PAQUE	34	JANE HARPER	39	JACK MCCANN	72	ANDREW GELLER	24
KURT STOLL	33	PHIL EISENHART(M)	50	DELLA SEHORN	65	STANFORD	4:04.50
CHICO	3:57.69			CLARINE ANDERSON	57	MARTIE MCKINNEY	28
LESLIE DEFOE	35	45 +		BOB PROEBSTING	55	NEIL LANCE	22
RAY PECK	35	R:LOS ALTOS	93 3:57.80	MARYLAND MASTER	5:08.26	DANE SPEARING	26
DON ULEN	42	ED CAZALET		NANCY BROWN	57	CINDY CLEMENTS	32
DIANA BEREKA	25	CAROLYN BOAK		DONALD RICE	59	WEST HOLLYWOOD	4:04.88
MARYLAND MASTER	4:06.60	DAVE GRAY		FRANCES HAYWOOD	61	KYLE FISHER	22
ZENA HERRMANN	33	KRISTI KING		KEN POLLOCK	60	DAVID GUTHRIE	32
GLENN MCGUIRE	34	LOS ALTOS	3:57.80	WALNUT CREEK	5:09.65	DAN BEATTY	26
DEBORAH ZIMIC	31	ED CAZALET	50	ANN PISCIOTTA	61	STACY JONES	27
MARK SCHERTLER	31	CAROLYN BOAK	47	JOAN ALEXANDER	60	HOST	4:13.58
AIR FORCE	4:09.21	DAVE GRAY	47	MIKE MILLIMAN	59	JEFF FREY	30
ANNA RAY	29	KRISTI KING	45	STAN MORNER	58	JUDY SMITH	23
KELLY LAZERSON	31	DC MASTERS	4:08.35	OJAI	5:19.37	ROBERT KILLEEN	30
JEFF FALEY	28	TOM BURGESS	50	ROBERT MAY	59	KAREN JACOBSON	25
DAVID LAZERSON	30	ANN LYTTLE	45	JACK SPRACKLIN	62	LOS ALTOS	4:14.96
		ANN SVANSON	47	MALCHIA OLSHAN	61	CINDY CLEMENTS	32
35 +		P GRUENEBERGER	46	JAN RAINS	59	BILL OLIVER	31
R:LOS ALTOS	90 3:40.82	LOS ALTOS	4:29.15	ST PETE	5:30.14	KATIE KELLOGG	24
CAROLYN BOAK		GRACE VOSS	49	J.G. PIPER	55	RANDY COX	30
LARIE VAL		TOM BOAK	49	HARRY M. PIPER	58	WALNUT CREEK	4:17.06
FRED MITCHELL		ARLENE PROEBSTING	50	B.J. TUCKER	57	PAULA ROEMER	32
ED CAZALET		DICK THOMAS	45	HAROLD FERRIS	61	KARNE HEARD	22
EMPIRE STATE	3:45.93	MARYLAND MASTER	4:36.08	COLONIALS 1776	5:33.95	CHRIS CONNOR	28
MATT CLARK	36	JOHN FLANAGAN	47	B HUNGERFORD	60	MIKE MCGOWAN	41
KAREN FARNSWORTH	37	YU-JIN LEE	59	BARBARA JOHNSON	60	MOUNTAIN VIEW	4:28.74
GWEN DEELY	43	MARILYN LUMPKIN	49	ROBERT KLAGES	61	MO CHAMBERS	34
CRAIG SAINT-AMOUR	40	LYNNE BRAGG	46	A SHENCK DALLAN	62	STEVE RAIFF	23
LOS ALTOS	3:55.13	STRAWBERRY CANY	4:36.53	HEARTLAND	6:54.42	ERIC WOLFF	32
CATHY SCHULBACH	39	DON RHETT	49	RUDOLPH SAPPER	60	LISA KIM	25
CARL COLVARD	37	SUSAN GARFIN	49	NANCY REED	65	WALNUT CREEK	4:29.29
JERRY HINSON	41	ARLENE WAKSBURG	47	EUGENE GORROW	66	GENE HART	40
LAURA VAL	41	JEFF ROOT	47	TRISH HUNTER	59	SUE WISTI	37
WALNUT CREEK	3:55.18	LOS ALTOS	4:51.04			GREG REMMERT	31
CARY KENT	40	BARRY DOOLEY	48	65 +		KRISTI CROSSCUP	20
CATHY COOLEY	36	ROSS BRIDGES	45	R:CONNECTICUT	87 5:15.84	STANFORD	4:30.71
JIM DELACY	46	PAT BLACK	48	D. DONNELLY		JOSH ALLEN	24
PATTY LANDERS	36	MARGIE WYNN	48	N. PHILLIPS		COLLEEN MARTIN	26
COLONIALS	3:55.56	MOB	5:06.04	R. CHAMBERLAIN		NINIA WAGNER	21
DEBORAH CAIN	36	BOB POPP	46	J. JERROLD		VINCE DIGNEO	29
WARREN FISHER	37	JUDY WAGNER	47	COLONIALS 1776	5:21.58		
DOT MUNGER	41	CAROL SADOSKI	48	ROGER FRANKS	66	25 +	
R KANNEGIESER	35	TOM LALK	51	FAY BECK	66	R:WALNUT CREEK	91 3:51.18
WALNUT CREEK	3:59.23	STRAWBERRY CANY	5:07.18	BIRCH DAVIDSON	74	PAM BOSCOVICH	
CHRIS STEWART	41	JERRY ABAD	54	CAROLYN DERR	65	TOM FRISTOE	
MIKE MCGOWAN	42	JUDY SARNA	53			STEVE STAHL	
JULIE MCKINLEY	35	J. DESBARATS	49	75 +		SARA SHAND	
DEBBIE FLANSBURG	37	ANDREW CASSIDY	47	R:WALNUT CREEK	92 7:04.46	U OF SAN FRAN	3:56.68
WALNUT CREEK	4:06.79	OJAI	5:11.65	HAL PERRY		JOHN MCCOMISH	28
DENNIS SHANNON	39	DANIEL TURBEVILLE	45	LOW NAGY		BETHANNE LAMBERT	26
JIM KING	46	JIM BARRETT	45	SALLY JOY		DEAN PANZICA	27
KARA DOUGLAS	35	CAROLE BORLAND	49	JEAN DURSTON		KELLY ASPLUND	31
KAREN BOYER	36	C. SPRACKLIN	48	NO RELAY TEAMS		WALNUT CREEK	3:58.29
MARYLAND MASTER	4:11.64	WALNUT CREEK	5:11.84	*****		PAM BOSCOVICH	30
ROBERT WEINBERG	36	NEIL STRATTON	50	RELAYS: MIXED 400 YD. MEDLEY		TOM DUGAN	32
ELAINE FINCHAM	38	FRED TRASK	65	*****		STEVE STAHL	28
TOM MATYSEK	38	SALLY MORNER	56	19 +		WENDY INGRAHAM	28
VIKI ALTOMONTE	43	DONNA MONROE	59	R:U OF SAN FRAN	91 3:58.70	U OF SAN FRAN	3:58.61
COLONIALS	4:12.16			JILL ROTHKOPF		DAVE MCAFFEE	26
D KANNEGIESER	36	55 +		PERRY WU		DANIEL TOM	28
M GWIAZDOWSKI	37	R:OJAI	92 4:27.94	DAVE SCHRAVEN		LORETTA SOFFEE	27
M KILGARIFF	35	ROBERT MAY		LORETTA SOFFE		JILL ROTHKOPF	28
GLENN GALLAGHER	35	JACK SPACKLIN		U OF SAN FRAN	4:00.53	LOS ALTOS	4:05.17
COLONIALS	4:15.41	RUTH FARNHAM		JOHN HARLOW	29	AIMEE LEHR	25
DAN CASTELLANO	42	RITA MAY		GREG MACKEM	24	BILL OLIVER	32
JILL WHITNEY	35	SAN DIEGO	4:40.87	CYNTHIA HINSHAW	23	RANDY COX	30
STEPHANIE WALSH	43	KEN KIMBALL	62	BRENDA WICKLUND	24	LAURA VAL	41
STEVEN EISNER	40	SUSAN RITTENHOUSE	55	U OF SAN FRAN	4:02.08	XTC	4:09.38

TOP TEN SHORT COURSE YARDS

CY ZACK	27	KENT FORD	38	55 +		SALLY SCHOLER	69
LINDA TANKERSLEY	30	MARTY DALTON	41	R:WALNUT CREEK	91 5:17.37	COLONIALS	7:57.29
THOMAS ANDERSON	27	DIANE GARCIA	40	DON BROWN		GEORGE MELICK	68
MATT LANG	27	PHYLLIS QUINN	38	ANN PISCIOTTA		BIRCH DAVIDSON	74
O*H*I*O MASTERS	4:09.98	WALNUT CREEK	4:29.63	STAN MORNER		FAY BECK	66
ERIN BORDEN	31	PATTY LANDERS	36	BETTY BARABASH		FLORENCE MELICK	71
KARL KAZMAIER	37	TOM ARRINGTON	40	SAN DIEGO	5:21.11	U OF SAN FRAN	9:34.32
JENNIFER UEBELE	28	MIKE MCGOWAN	35	BETSY JORDAN	56	FRED ROGERS	70
WINSTON RITCHEY	25	JULIE MCKINLEY	35	PETER RIDDLE	55	ANNALISA RECCHIA	70
RINCONADA	4:14.01	U OF SAN FRAN	4:30.31	BILL EARLEY	56	JIM BISBEE	66
CHRIS KANAGAWA	26	JULIE MCKINLEY	35	JEANNE LITTLE	56	SARAH DAVIS	69
JIM WANDERER	26	BARBARA DONDERO	36	LOS ALTOS	5:28.13		
KIRK KOSLOWSKI	34	RICH ATONDO	42	JACK MCCANN	72	75 +	
KIM ELSBACH	30	STEVE MUNDSCHAU	38	DELLA SEHORN	65	R:RINCONADA	91 9:27.58
SANTA CLARA	4:15.89			BOB PROEBSTING	55	BERNIE SILBER	
MIKE MOORE	29	45 +		CLARINE ANDERSON	57	BERNARD SILBER	
TIM SHERIDAN	28	R:TAMALPAIS	93 4:23.96	WALNUT CREEK	5:35.57	ED BLACKLEDGE	
LESLIE CHEQUER	27	RICH BURNS		MIKE MILLIMAN	58	ELLEN TAIT	
BETH SEATON	27	GARY PARLAPIANO		ANN PISCIOTTA	61	NO RELAY TEAMS	
SAN MATEO	4:16.19	JAYNE NICHOLS		STAN MORNER	58	*****	
GABRIELLA GALLO	28	NANCY RIDOUT		DONNA MONROE	59	RELAYS: MIXED 800 YD. FREE	
ERICH RASIMUS	28	TAMALPAIS	4:23.96	RINCONADA	5:39.03	*****	
BRENT WASHBURNE	31	RICH BURNS	49	RICHARD BENNETT	62	19 +	
KARA MABRY	25	GARY PARLAPIANO	46	BOBBIE CALLISON	60	R:DAVIS	92 7:48.42
EMPIRE STATE	4:16.33	JANE NICHOLS	51	ED SCHANER	63	ANNA SCOTT	
S MOLL	28	NANCY RIDOUT	51	ANN KAY	58	C. CHICHESTER	
MARCIA CLEVELAND	29	LOS ALTOS	4:32.88	MARYLAND MASTER	5:44.08	ANDY MCPHERSON	
BILL HENNESSY	32	DICK THOMAS	45	NANCY BROWN	57	DARREN DUTTO	
KATHLEEN SWIFT	32	TOM BOAK	49	DONALD RICE	59	U OF SAN FRAN	7:54.66
		CAROLYN BOAK	47	YU-JIN LEE	59	CYNTHIA HINSHAW	23
35 +		KRISTI KING	45	FRANCES HAYWOOD	61	GREG MACKEM	24
R:EMPIRE STATE	91 4:10.00	DC MASTERS	4:34.26	SACRAMENTO	5:49.62	BRENDA WICKLUND	23
KAREN FARNSWORTH		LEE BETTIS	55	KATHY ISERI	59	M.KRAAIJVANGER	22
SKIP BARTHOLD		ROBERT BENNETT	49	TAK ISERI	61	SOUTH BAY	8:08.19
JOHN EGAN		JOANN LEILICH	54	DOT WERRY	56	BRIAN JOHNSON	32
CHRIS ZIMMET		ANN LYTTLE	45	LUMAN SUTTON	66	SUSIE MORTENSON	24
EMPIRE STATE	4:07.14NV	MARYLAND MASTER	4:56.66	WIS MASTERS	5:54.46	SCOTT SOUTHON	28
KAREN FARNSWORTH	37	LYNNE BRAGG	46	DORIS KLITZKE	57	ANN FINLEY	30
CRAIG SAINT-AMOUR	40	JOHN FLANAGAN	47	CAROL REINKE	55	U OF SAN FRAN	8:38.09
MATT CLARK	36	SUSAN LEVICKAS	45	JOHN BAUMAN	62	SURA DUBOW	22
GWEN DEELY	43	KEN POLLOCK	60	ROBERT KUENY	61	MARY LEE	24
COLONIALS	4:08.71NV	RINCONADA	4:58.88	U OF SAN FRAN	5:54.97	ANGELO CHRISTAKIS	24
DEBORAH CAIN	36	JIM SHAW	51	TERRY CARLISE	58	MATT CEVALLOS	22
R KANNEGIESER	35	NANCY BROOKS	50	CAROL REQUADT	55	STANFORD	8:39.75
DOT MUNGER	41	JOHN SELMER	47	GAIL ROPER	63	JILL SAMUELS	26
GLENN GALLAGHER	35	CAROL MACPHERSON	54	BARRY GALVIN	59	ROLF MIFFLIN	20
STANFORD	4:12.12	OREGON	5:01.23	COLONIALS 1776	6:15.09	KIM WALSH	24
TOM MONICA	35	ROBERT S SMITH	49	B HUNGERFORD	60	NEIL LANCE	22
EILEEN WALL	35	GEORGE D THAYER	56	BARBARA JOHNSON	60	LOS ALTOS	8:46.87
TIM BRODERICK	42	GINGER L PIERSON	46	A SHENCK DALLAN	62	RICH LACAMPAGNE	38
JUDY HELLER	37	JAN M PLESNER	46	ROBERT KLAGES	61	DIANA DOWELL	20
WALNUT CREEK	4:17.34	LOS ALTOS	5:08.90	OJAI	6:40.55	SUSAN WILLIS	23
KERRY O'BRIEN	35	ROSS BRIDGES	45	ROBERT MAY	59	RADFORD LEHR	22
CATHY COOLEY	36	ARLENE PROEBSTING	50	MAGGIE MORS	67	VENICE	8:57.54
DEBBIE FLANSBURG	36	ED CAZALET	50	MALCHIA OLSHAN	62	MICHELE MELENDEZ	21
CARY KENT	40	GRACE VOSS	49	JACK SPRACKLIN	62	MSTT SEEGER	35
LOS ALTOS	4:18.86	RINCONADA	5:11.91			DEANNA XANTHOS	20
CARL COLVARD	37	SUE SPRINGER	54	65 +		BRUCE STAHL	34
MABRY TYSON	44	ABE MAZLIACH	46	R:COLONIALS 1776	93 5:50.65	SACRAMENTO	9:09.73
LAURA VAL	41	SUE KELLY	45	JEANNE MERRMAN		SCOTT REUSS	31
CATHY SCHULBACH	39	BILL LORTON	50	ROGER FRANKS		KAREN ROSENKILDE	26
MARYLAND MASTER	4:24.41	U OF SAN FRAN	5:22.26	JOHN EMANUEL		ANDREW BRENAN	32
ROBERT WEINBERG	36	WILLIAM MCGRANE	45	CAROLYN DERR		KAREN SCHMIDT	23
ELAINE FINCHAM	38	NANCY STRETCHH	53	COLONIALS	5:50.65	WEST HOLLYWOOD	9:13.31
TOM MATYSEK	38	JOHN LADD	47	JEANNE MERRYMAN	70	R.MASTROBERTI	28
BARBARA PROTZMAN	38	DOROTHY REMINGTON	48	ROGER FRANKS	66	ALEXIA NALEWAIK	24
COLONIALS	4:26.75	STRAWBERRY CANY	5:23.43	JOHN EMANUEL	68	E.HALOUZKA	28
WARREN FISHER	37	JUDY SARNA	53	CAROLYN DERR	65	RON JACOBS	27
D KANNEGIESER	36	SUSAN GARFIN	49	RINCONADA	6:28.40	SOUTH BAY	9:31.15
JILL WHITNEY	35	JEFFF ROOT	47	ELI GOLDFARB	67	DAVID BIRD	29
STEVEN EISNER	40	DON RHETT	49	PATSY WEISS	70	NICOLE KNAF	20
U OF SAN FRAN	4:28.30			C.FAIRCHILD	67	SUSAN STOHRER	29

TOP TEN SHORT COURSE YARDS

GORDON LINDEEN	32	CATHY SCHULBACH	39	THOMAS MOYER	45	JUDY TILARO	57
LINCOLN MASTERS	10:16.00	LAURA VAL	41	P.STRICKLAND	52	TRISH HUNTER	59
JOHN ADAMS	40	STEVE STRONG	39	FREDERICKA RAPP	48	EUGENE GORROW	66
ROBERT KNIGHT	34	WALNUT CREEK	8:09.69	U OF SAN FRAN	11:22.09		
EMILEE GRUPP	25	JOHN PETTIBONE	38	JOHN LADD	49	65 +	
JENNIFER MAHALIK	21	CATHY COOLEY	35	TIM GARDNER	45	R:LOS ALTOS	93 11:24.83
		PATTY LANDERS	36	DOROTHY REMINGTON	46	JOHN PONICHIL	
25 +		KERRY O'BRIEN	36	BARBARA LAMBERTO	48	DELLA SEHORN	
R:WALNUT CREEK	91 7:41.32	DADS	8:31.96	MOB	11:39.40	BERNA BENNETT	
JOHN BOEGMAN		MARK HAHN	36	BOB POPP	46	JOHN RICHARDS	
CATHY COOLEY		D. OGIER-POLLARD	40	JUDY WAGNER	47	LOS ALTOS	11:24.83
SARA SHAND		KRIS WINGENROTH	39	CAROL SADOSKI	48	JOHN PONISCHIL	65
GREG REMMERT		JIM CRANE	50	TOM LALK	51	DELLA SEHORN	65
U OF SAN FRAN	7:45.01	U OF SAN FRAN	8:45.44	HEARTLAND	11:47.84	BERNA BENNETT	65
DEAN PANZICA	30	DIANE DAVIS	36	DAVID SZUCH	50	JOHN RICHARDS	70
LORETTA SOFFE	26	DIANE GARCIA	41	DOUGLAS SELBY	47		
KATHY FLOROWSKI	25	RICH ATONDO	42	CAROL SING	51	75 +	
CHRIS WATERS	31	WESLEY TANIGAWA	39	CECILY MC NEIL	47	R:SAN MATEO	93 14:16.33
DAVIS	7:59.18	U OF SAN FRAN	9:01.11	WEST HOLLYWOOD	12:19.04	AUDREY ETIENNE	
ANDY MCPHERSON	46	MARY SAAL	38	GINNY SIMMONS	52	HELEN ROUMASSET	
KAREN NEWSOM	26	PHYLLIS QUINN	37	SANDY CATTARIN	53	JOE KAUFMANN	
C.CHICHESTER	29	TAITE DARLINGTON	36	BILL PEARCE	52	ED MORAN	
MIKE COLLINS	27	KENT FORD	38	JIM STUBBS	52	SAN MATEO	14:16.33
WALNUT CREEK	8:17.87	ALMADEN	9:17.48			AUDREY ETIENNE	76
JOHN FAWCETT	34	DAVE WHEELER	36	55 +		HELEN ROUMASSET	77
GREG RAINER	29	TOM SAVASO	36	R:WALNUT CREEK	93 10:27.41	JOE KAUFMANN	87
PAM BOSCOVICH	30	JULIE MCVICKER	49	BOB KAHL		ED MORAN	75
PEGGY FAWCETT	33	MARTA WHEELER	36	ANN PISCIOTTA			
U OF SAN FRAN	8:25.03	RINCONADA	9:18.69	BARBARA JORDAN			
PEGGY FAWCETT	33	REBECCA PINTO	37	STAN MORNER			
CAROL BADGER	33	JOHN SELMER	43	WALNUT CREEK	10:27.41		
NANCY MCILVAINE	28	RUTH PETERSEN	46	BOB KAHL	59		
DAVE GILMER	27	TOM SCHULER	39	ANN PISCIOTTA	61		
SOUTH BAY	8:31.47	U OF SAN FRAN	9:23.30	BARBARA JORDAN	55		
BRIAN KELCA	32	MICHELLE SHIELDS	36	STAN MORNER	58		
DEDE MOORE	33	ANN CLAMAN	35	U OF SAN FRAN	10:34.19		
CHUCK PONTHER	30	DUKE DAHLIN	44	ED HOWES	56		
CAROLE SHIGAKI	37	DAVE SEHNERT	36	CAROL REQUADT	55		
WALNUT CREEK	8:32.52	EMPIRE STATE	9:35.97	GAIL ROPER	63		
CHRIS CONNOR	32	GWEN DEELY	43	TERRY CARLISLE	58		
PAUL TUREK	29	PHYLLIS SPRINGER	43	SAN DIEGO	10:41.23		
SUZY HANSEN	29	DANA EVANS	39	BILL EARLEY	56		
SUSAN DUNCAN	26	GEORGE STEERS	38	BETSY JORDAN	56		
LOS ALTOS	8:36.06	DOLPHIN CLUB	9:46.75	JEANNE LITTLE	56		
STEVE SCHULTZ	36	ELMER TOSTA	44	KEN KIMBALL	62		
LUCILLE GLASSMAN	29	JON NAKAMURA	36	WALNUT CREEK	11:24.66		
PAMELA PEREZ	31	CATHY HUANG	38	STAN PEDDER	58		
WILLIAM OLIVER	32	SUSAN ALLEN	48	BETTY MCMILLAN	64		
WALNUT CREEK	8:37.15			JOAN ALEXANDER	61		
JOHN CRANE	41	45 +		MIKE MILLIMAN	58		
KARA MCDONOUGH	26	R:LOS ALTOS	92 9:09.04	SACRAMENTO	11:49.95		
JULIE MCKINLEY	35	ED CAZALET		ANITA HAZEN	65		
CARY KENT	41	GRACE VOSS		DOT WERRY	56		
EMPIRE STATE	8:37.95	CAROLYN BOAK		RICHARD SMITH	72		
MARCIA CLEVELAND	28	DAVE GRAY		NORM MYERS	64		
JACK QUINLAN	26	LOS ALTOS	9:27.39	ST PETE	11:56.69		
TINA PIANTIDOSI	25	VLADIMIR IVAN	45	B.J. TUCKER	57		
JON EINSIDLER	41	ARLENE PROEBSTING	50	JOHN R. COX	57		
TEMESCAL	8:43.33	KRISTI KING	45	BARBARA A. ALLEN	59		
LINDA BUCHANAN	35	BOB PROEBSTING	55	RAY S. BURNS	57		
THEA VAUGHN	31	WALNUT CREEK	10:33.57	OJAI	12:21.87		
STEVEN PURYEAR	44	JACK LANCE	50	JACK SPRACKLIN	62		
JIM GORDON	31	DONNA MONROE	59	MALCHIA OLSHAN	62		
		SALLY MORNER	58	ROBERT MAY	59		
35 +		TOM HENDRY	46	RUTH FARNHAM	63		
R:LOS ALTOS	93 8:07.69	GOST	11:04.32	U OF SAN FRAN	14:40.77		
ED CAZALET		CHRIS GILLIGAN	49	VICTOR DEKALB	68		
LAURA VAL		PAT MALEY	49	RICHARD SCHOMBERG	66		
CATHY SCULBACH		JOSEPH PESCHEL	48	MARY ALLEN	60		
STEVE STRONG		TOM HERR	47	ANNALISA RECCHIA	71		
LOS ALTOS	8:07.69	MICHIGAN MASTER	11:12.52	HEARTLAND	15:19.86		
ED CAZALET	50	DONALD KROEGER	49	RUDDOLPH SAPPER	60		

WORLD RECORDS

SHORT COURSE METERS (as of 5-1-93)

*****		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
51.62	10-18-92	GBR	ROLAND LEE	100 M.	FREE	MONIQUE RODAHL	NZL	06-04-89	58.93
1:53.82	10-18-92	GBR	ROLAND LEE	200 M.	FREE	REBECCA WILLIAMS	NZL	10-21-90	2:05.80
4:04.50	07-20-86	CAN	G WALBOURN	400 M.	FREE	LYNN MARSHALL	CAN	- -91	4:25.94
8:29.19	- -92	SWE	T.LENNARTSSON	800 M.	FREE	DIANE GRANER	USA	12-09-90	9:18.99
16:23.21	04-11-92	USA	ROB MACKLE	1500 M.	FREE	KAREN BURTON	USA	12-14-91	17:30.18
26.85	03-21-92	USA	MOOK RHODENBAUGH	50 M.	BACK	DIANE GRANER	USA	10-15-89	30.63
58.15	10-18-92	GBR	MARK MATTHEWS	100 M.	BACK	DIANE GRANER	USA	10-15-89	1:04.66
2:04.07	02-11-93	NZL	DARRYL FOLLOWS	200 M.	BACK	J.DE ROVER	NED	- -92	2:17.86
28.81	- -90	AUS	GUY FARROW	50 M.	BRST	RIA WILLEMSE	NED	- -90	33.60
1:04.49	- -91	NED	FRANK VIJUER	100 M.	BRST	RIA WILLEMSE	NED	- -90	1:13.60
2:24.68	10-15-89	USA	PETER MCCLAFFERTY	200 M.	BRST	BEATE STEINHOF	GER	- -90	2:44.82
25.77	10-15-89	USA	JAMES LILLEY	50 M.	FLY	AGNETA ERIKSSON	SWE	- -92	29.48
57.07	10-15-89	USA	BRAD WELLS	100 M.	FLY	S MCDONALD	GBR	- -86	1:05.71
2:07.65	- -90	GBR	P SHACKLEY	200 M.	FLY	S. PALMER-WHITE	AUS	- -91	2:17.13
57.70	- -90	AUS	GUY FARROW	100 M.	I.M.	MONIQUE RODAHL	NZL	06-04-89	1:06.84
2:10.85	- -91	GBR	ROLAND LEE	200 M.	I.M.	DIANE GRANER	USA	10-15-89	2:24.07
4:42.88	11-22-92	USA	DAVID SWENSON	400 M.	I.M.	S. PALMER-WHITE	AUS	- -91	5:06.88
*****		M E N	***** 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
17:05.25	10-25-92	USA	STEVEN FISHER	1500 M.	FREE	LYNN MARSHALL	CAN	10-05-92	17:41.61
27.18	04-28-91	USA	J. CLAY BRITT	50 M.	BACK	MICHELLE PEARSON	GBR	10-18-92	31.99
58.12	04-28-91	USA	J. CLAY BRITT	100 M.	BACK	M OLIVER-SEXSMITH	CAN	05-25-92	1:09.59
2:11.19	11-22-92	USA	JAMES FOWLER	200 M.	BACK	ZENA HERRMANN	USA	12-15-91	2:32.32
30.03	- -90	JPN	G. CHRISTIANSEN	50 M.	BRST	DAGMAR 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	SUI	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	REBECCA PERROTT	NZL	- -91	1:04.69
2:13.62	12-11-88	USA	R MARK SCHUMAN	200 M.	FLY	NEROLI NIXON	AUS	- -92	2:26.35
59.95	04-26-92	USA	J. CLAY BRITT	100 M.	I.M.	SANDY NEILSON	USA	05-18-88	1:07.78
2:12.33	09-17-88	USA	TOBY WEISSERT	200 M.	I.M.	SANDY NEILSON	USA	05-10-87	2:27.11
4:44.78	12-13-92	USA	ALLAN JAEGER	400 M.	I.M.	REBECCA PERROTT	NZL	10-26-91	5:13.69
*****		M E N	***** 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	S. NIELSON-BELL	USA	11-15-92	1:00.29
1:59.38	10-15-89	USA	LARRY WOOD	200 M.	FREE	JACKI HIRSTY	USA	10-15-89	2:12.69
4:18.22	10-04-91	USA	ROB COPELAND	400 M.	FREE	MARIA VELIKONJA	USA	03-27-93	4:46.93
9:02.71	11-15-92	USA	SANDY MACDONALD	800 M.	FREE	LAURA VAL	USA	05-31-87	9:46.95
17:25.79	10-03-91	USA	ROB COPELAND	1500 M.	FREE	LAURA VAL	USA	05-29-87	18:27.71
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	05-06-88	1:10.47
2:15.47	04-29-90	USA	THOMAS WOLF	200 M.	BACK	PAT GILMORE	CAN	05-16-88	2:34.09
31.64	11-03-92	JPN	YOSHIHIDE KAGAMI	50 M.	BRST	LESLIE OSBORNE	USA	10-15-89	34.63
1:08.30	- -90	GER	GERD KRUGER	100 M.	BRST	LESLIE OSBORNE	USA	10-15-89	1:16.70
2:28.35	10-15-89	USA	GREG HARRISON	200 M.	BRST	LESLIE OSBORNE	USA	10-15-89	2:50.93
25.96	06-01-91	USA	RICHARD HESS	50 M.	FLY	LAURA VAL	USA	10-06-91	30.05
1:00.50	11-15-92	USA	STUART CORLISS	100 M.	FLY	MARIA VELIKONJA	USA	03-27-93	1:07.28
2:14.64	11-15-92	USA	SANDY MACDONALD	200 M.	FLY	LAURA VAL	USA	10-06-91	2:28.96
1:00.79	03-21-92	USA	RICHARD HESS	100 M.	I.M.	S. NIELSON-BELL	USA	03-21-92	1:08.15
2:15.67	10-15-89	USA	CLAY EVANS	200 M.	I.M.	S. NIELSON-BELL	USA	11-15-92	2:31.39
4:53.16	10-15-89	USA	CLAY EVANS	400 M.	I.M.	KAREN FARNSWORTH	USA	10-27-91	5:30.35
*****		M E N	***** 40-44 *****			W O M E N	*****		
24.91	09-17-88	USA	ANDY MCPHERSON	50 M.	FREE	LAURA VAL	USA	09-12-92	28.25
55.35	09-17-88	USA	ANDY MCPHERSON	100 M.	FREE	LAURA VAL	USA	09-12-92	1:01.15
1:59.27	11-15-92	USA	TIMOTHY BRODERICK	200 M.	FREE	LAURA VAL	USA	11-15-92	2:14.32
4:18.45	10-15-89	USA	KEVIN POLANSKY	400 M.	FREE	BARBARA DUNBAR	USA	10-17-92	4:50.68
9:01.20	10-15-89	USA	KEVIN POLANSKY	800 M.	FREE	BARBARA DUNBAR	USA	02-10-91	10:04.16
17:38.17	05-31-87	USA	DAVID GRAY	1500 M.	FREE	BARBARA DUNBAR	USA	02-04-90	19:00.81
28.93	10-06-91	USA	JERRY HEIDENREICH	50 M.	BACK	S. PLATT-ROGERS	GBR	- -91	33.85
1:04.50	10-15-89	USA	RIC COOLEY	100 M.	BACK	LAURA VAL	USA	11-15-92	1:10.94
2:22.17	10-15-89	USA	TOD SPIEKER	200 M.	BACK	LAURA VAL	USA	11-15-92	2:38.40
31.33	10-15-89	USA	PAUL HENNE	50 M.	BRST	GILLIAN CACKETT	GBR	10-18-92	37.64
1:10.61	05-24-92	JPN	TOSHIHARU FUJII	100 M.	BRST	GAYLE BENTY	USA	11-15-92	1:22.19
2:38.16	10-15-89	MEX	RAFAEL HERNANDEZ	200 M.	BRST	GAYLE BENTY	USA	11-15-92	2:54.12
26.67	08-11-91	USA	JOHN HEIDENREICH	50 M.	FLY	LAURA VAL	USA	09-12-92	30.18
1:00.79	10-15-89	USA	ANDREW MCPHERSON	100 M.	FLY	LAURA VAL	USA	09-12-92	1:07.59
2:16.15	10-15-89	USA	BOO GALLAS	200 M.	FLY	BARBARA DUNBAR	USA	10-29-89	2:32.19
1:02.30	10-15-89	USA	RIC COOLEY	100 M.	I.M.	LAURA VAL	USA	09-12-92	1:11.65
2:18.73	10-15-89	USA	JOHN CALVERT	200 M.	I.M.	LAURA VAL	USA	11-15-92	2:33.89
5:00.76	10-15-89	USA	JOHN CALVERT	400 M.	I.M.	LAURA VAL	USA	11-15-92	5:32.53

WORLD RECORDS

SHORT COURSE METERS (as of 5-1-93)

***** M E N *****			***** 45-49 *****			***** W O M E N *****		
25.10	11-15-92	USA	ANDREW MCPHERSON	50	M. FREE	SUSAN SHRIMPSON	GBR	10-18-92 29.73
56.45	11-15-92	USA	ANDREW MCPHERSON	100	M. FREE	SUSAN SHRIMPSON	GBR	10-18-92 1:05.20
2:05.81	- -88	USA	ED CAZALET	200	M. FREE	ARDETH MUELLER	USA	12-12-87 2:28.69
4:29.82	- -91	BAR	ANGUS EDGHILL	400	M. FREE	SANDRA O'NEIL	GBR	10-18-92 5:16.35
9:26.18	- -92	BAR	ANGUS EDGHILL	800	M. FREE	SANDRA O'NEIL	GBR	10-18-92 10:51.84
18:10.24	- -91	BAR	ANGUS EDGHILL	1500	M. FREE	PAT MALEY	USA	11-04-90 22:18.64
29.33	03-12-89	USA	ROBERT SMITH	50	M. BACK	SATOKO TAKEUJI	JPN	- -88 35.43
1:05.31	03-12-89	USA	ROBERT SMITH	100	M. BACK	SATOKO TAKEUJI	JPN	- -88 1:17.13
2:24.39	12-13-92	USA	TIM BIRNIE	200	M. BACK	SANDRA O'NEIL	GBR	10-18-92 2:51.16
31.95	- -91	NED	K WITTENHOUT	50	M. BRST	ELAINE BROMWICH	USA	12-09-90 38.67
1:10.41	12-13-92	USA	ROBERT STRAND	100	M. BRST	CAROLYN BOAK	USA	11-15-92 1:23.49
2:35.71	12-13-92	USA	ROBERT STRAND	200	M. BRST	GINGER PIERSON	USA	04-21-91 3:04.75
27.46	03-21-92	USA	DAN THOMPSON	50	M. FLY	JUDY WILSON	GBR	05-03-92 32.97
1:03.48	- -90	USA	GARY LANGENDOEN	100	M. FLY	JUDY WILSON	GBR	10-18-92 1:14.85
2:25.95	11-15-92	USA	ANDREW MCPHERSON	200	M. FLY	ARDETH MUELLER	USA	12-12-87 2:37.88
1:05.45	11-15-92	USA	ROBERT STRAND	100	M. I.M.	ARDETH MUELLER	USA	10-03-87 1:14.41
2:24.45	10-27-91	USA	JOHN CALVERT	200	M. I.M.	ARDETH MUELLER	USA	10-03-87 2:42.88
5:17.02	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	NANCY RIDOUT	USA	09-12-92 30.48
59.21	- -90	SWE	PETER BERGEGREN	100	M. FREE	ARDETH MUELLER	USA	10-06-91 1:06.41
2:12.18	09-12-92	USA	ED CAZALET	200	M. FREE	ARDETH MUELLER	USA	12-07-91 2:27.95
4:40.16	11-15-92	USA	ED CAZALET	400	M. FREE	ARDETH MUELLER	USA	10-06-91 5:12.43
9:49.95	11-15-92	USA	ED CAZALET	800	M. FREE	NANCY RIDOUT	USA	11-15-92 11:20.21
19:04.02	- -92	GBR	MIKE WAKE	1500	M. FREE	LAVELLE STOINOFF	USA	02-01-87 21:44.35
31.42	10-15-89	USA	JOHN SMITH	50	M. BACK	SATOKO TAKEUJI	JPN	05-24-92 35.96
1:09.38	10-20-90	NZL	BARRY YOUNG	100	M. BACK	ARDETH MUELLER	USA	12-07-91 1:20.50
2:30.21	10-21-90	NZL	BARRY YOUNG	200	M. BACK	ARDETH MUELLER	USA	12-07-91 2:48.88
33.09	- -90	JPN	HIROSHI KOTEGAWA	50	M. BRST	ERNA LOSKAMP	NED	- -92 38.82
1:14.72	10-15-89	USA	DRURY GALLAGHER	100	M. BRST	ERNA LOSKAMP	NED	- -92 1:25.73
2:45.11	10-15-89	USA	DRURY GALLAGHER	200	M. BRST	ERNA LOSKAMP	NED	- -92 3:08.87
28.83	05-17-92	JPN	KOJI IWAMOTO	50	M. FLY	ERNA LOSKAMP	NED	- -92 35.23
1:05.23	03-14-93	JPN	KOJI IWAMOTO	100	M. FLY	ARDETH MUELLER	USA	10-06-91 1:12.66
2:29.99	01-15-93	JPN	KOJI IWAMOTO	200	M. FLY	SPERRY RADEMAKER	USA	10-15-89 3:11.83
1:07.60	10-15-89	USA	DRURY GALLAGHER	100	M. I.M.	ARDETH MUELLER	USA	12-07-91 1:18.05
2:31.52	10-15-89	USA	DRURY GALLAGHER	200	M. I.M.	YOSHIKO OSAKI	JPN	- -91 2:57.65
5:20.81	10-15-89	USA	DRURY GALLAGHER	400	M. I.M.	ARDETH MUELLER	USA	12-07-91 5:56.24
***** M E N *****			***** 55-59 *****			***** W O M E N *****		
26.60	10-15-89	USA	DONALD HILL	50	M. FREE	JAYNE BRUNER	USA	10-15-89 31.83
1:00.08	10-15-89	USA	DONALD HILL	100	M. FREE	JAYNE BRUNER	USA	10-15-89 1:11.63
2:17.95	02-07-93	JPN	KAZUYA NISHINO	200	M. FREE	LAVELLE STOINOFF	USA	03-12-89 2:40.27
4:59.35	05-10-92	JPN	KAZUYA NISHINO	400	M. FREE	LAVELLE STOINOFF	USA	03-12-89 5:34.32
10:35.62	10-25-87	USA	GRAHAM JOHNSTON	800	M. FREE	LAVELLE STOINOFF	USA	03-12-89 11:29.99
20:03.24	12-09-90	USA	BURWELL JONES	1500	M. FREE	LAVELLE STOINOFF	USA	03-12-89 21:35.84
32.43	10-04-92	GBR	GRAHAM SYKES	50	M. BACK	BETSY JORDAN	USA	04-11-92 37.92
1:12.17	10-15-89	USA	YOSHI OYAKAWA	100	M. BACK	BETSY JORDAN	USA	06-13-92 1:21.90
2:41.11	11-15-89	USA	JACK BEATTIE	200	M. BACK	BETSY JORDAN	USA	10-17-92 3:00.66
33.47	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	FLORA CONNOLLY	GBR	- -90 1:28.13
2:51.47	10-15-89	USA	MANUEL SANGUILY	200	M. BRST	FLORA CONNOLLY	GBR	- -90 3:12.85
30.15	09-16-90	USA	ROBERT BAILIE	50	M. FLY	BETSY JORDAN	USA	10-17-92 37.50
1:13.47	11-04-90	USA	WALLY DOBLER	100	M. FLY	FLORA CONNOLLY	GBR	- -89 1:27.88
2:53.71	10-15-89	USA	MANUEL SANGUILY	200	M. FLY	FLORA CONNOLLY	GBR	- -90 3:11.42
1:12.67	12-10-89	USA	BURWELL JONES	100	M. I.M.	JAYNE BRUNER	USA	10-15-89 1:24.19
2:41.86	12-09-90	USA	BURWELL JONES	200	M. I.M.	FLORA CONNOLLY	GBR	- -90 3:05.23
5:54.37	12-10-89	USA	BURWELL JONES	400	M. I.M.	FLORA CONNOLLY	GBR	- -90 6:36.03
***** M E N *****			***** 60-64 *****			***** W O M E N *****		
28.30	- -91	JPN	S TAMAMOTO	50	M. FREE	JANE ASHER	GBR	- -91 33.54
1:05.52	07-15-90	USA	CHARLES BALDWIN	100	M. FREE	JANE ASHER	GBR	- -91 1:13.68
2:21.77	08-11-91	USA	GRAHAM JOHNSTON	200	M. FREE	JANE ASHER	GBR	- -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
2:48.78	03-28-92	AUS	BOB BARRY	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 PISCIOTTA	USA	09-12-92 1:37.78
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	GBR	- -91 38.40
1:16.56	- -86	GBR	JACK 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 5-1-93)

***** 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	12-13-92	6:13.42
11:51.42	09-12-92	USA	ED KERSWILL	800	M. FREE	CLARA WALKER	USA	12-13-92	12:35.26
22:19.37	11-22-92	USA	FRANK PIEMME	1500	M. FREE	CLARA WALKER	USA	12-13-92	23:38.44
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	NED	- -90	1:43.57
3:15.28	- -91	GER	KARL HEINZ KNOPS	200	M. BRST	MARGARET EVANS	GBR	- -90	3:46.02
33.63	12-09-90	USA	FRANK PIEMME	50	M. FLY	M CUNNINGHAM	AUS	- -90	44.27
1:21.66	11-10-91	USA	JOSEPH KURTZMAN	100	M. FLY	JUNE KRAUSER	USA	10-06-91	1:38.74
3:13.03	11-10-91	USA	JOSEPH KURTZMAN	200	M. FLY	JUNE KRAUSER	USA	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.	DELLA SEHORN	USA	11-15-92	7:33.72
***** M E N *****			70-74 *****			***** W O M E N *****			
31.01	11-28-92	GBR	JACK HALE	50	M. FREE	DOREEN COPE	GBR	10-18-92	38.95
1:12.57	05-25-92	USA	JOHN RICHARDS	100	M. FREE	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
36.97	11-28-92	GBR	JACK HALE	50	M. BACK	WILLY VAN RYSEL	GBR	12-13-87	45.08
1:24.30	10-15-89	USA	RAY TAFT	100	M. BACK	WILLY VAN RYSEL	GBR	12-13-87	1:44.02
3:07.57	10-15-89	USA	RAY TAFT	200	M. BACK	WILLY VAN RYSEL	GBR	- -90	3:53.86
40.02	- -90	GER	WALTER MINNICH	50	M. BRST	INGEBORG FRITZE	GER	- -92	50.53
1:32.13	04-30-88	USA	ALDO DA ROSA	100	M. BRST	INGEBORG FRITZE	GER	- -91	1:54.84
3:24.66	05-01-88	USA	ALDO DA ROSA	200	M. BRST	MICHIKO HAMURO	JPN	- -90	4:09.41
35.35	11-28-92	GBR	JACK HALE	50	M. FLY	CATHERINE KERR	CAN	- -91	48.27
1:27.28	10-18-92	GBR	JACK HALE	100	M. FLY	GERTRUD ZINT	USA	12-10-88	2:04.25
3:31.97	10-15-89	USA	ANTON CERER	200	M. FLY	MAXINE MERLINO	USA	11-02-86	4:36.96
1:21.87	10-15-89	USA	RAY TAFT	100	M. I.M.	CATHERINE KERR	CAN	- -91	1:43.67
3:08.13	10-15-89	USA	RAY TAFT	200	M. I.M.	DOROTHY DONNELLY	USA	06-06-92	4:01.01
6:50.27	10-15-89	USA	RAY TAFT	400	M. I.M.	RITA SIMONTON	USA	11-19-88	8:34.79
***** M E N *****			75-79 *****			***** W O M E N *****			
32.78	04-16-88	USA	KELLEY LEMMON	50	M. FREE	HATSUHO SUGAYA	JPN	- -91	42.88
1:15.94	04-16-88	USA	KELLEY LEMMON	100	M. FREE	V CHERRIMAN	GBR	- -85	1:45.53
2:59.20	10-15-89	USA	DEXTER WOODFORD	200	M. FREE	UME WADA	JPN	- -90	3:50.58
6:23.81	10-15-89	USA	DEXTER WOODFORD	400	M. FREE	V CHERRIMAN	ENG	12-13-86	7:56.05
13:17.26	10-15-89	USA	DEXTER WOODFORD	800	M. FREE	AUDREY ETIENNE	USA	09-12-92	16:20.48
25:15.05	- -91	CAN	NORBERT ARTUS	1500	M. FREE	MAXINE MERLINO	USA	10-16-88	33:53.33
41.90	- -85	GER	R REINSTADTLER	50	M. BACK	WILLY VAN RYSEL	GBR	- -91	48.06
1:34.08	03-27-93	USA	NORRIS FLUKE	100	M. BACK	WILLY VAN RYSEL	GBR	- -91	1:48.13
3:27.82	11-10-91	USA	EDWARD SHEA	200	M. BACK	WILLY VAN RYSEL	GBR	- -91	4:00.43
42.99	- -90	JPN	HIROMU YOSHIMOTO	50	M. BRST	DOROTHY WESTON	GBR	- -90	58.41
1:37.39	11-15-92	USA	ALDO DA ROSA	100	M. BRST	EMMI PAULI	GER	- -91	2:00.27
3:36.71	10-07-90	USA	DON MCCULLOUGH	200	M. BRST	MAXINE MERLINO	USA	10-30-88	4:35.24
42.10	11-15-92	USA	PAUL KRUP	50	M. FLY	KAY SCHIMPF	USA	09-27-92	59.09
1:36.80	11-15-92	USA	PAUL KRUP	100	M. FLY	MAXINE MERLINO	USA	12-03-88	2:12.17
3:49.00	11-15-92	USA	PAUL KRUP	200	M. FLY	MAXINE MERLINO	USA	10-30-88	4:48.50
1:32.84	11-15-92	USA	ALDO DA ROSA	100	M. I.M.	MAXINE MERLINO	USA	03-20-88	2:00.07
3:22.14	11-15-92	USA	ALDO DA ROSA	200	M. I.M.	MAXINE MERLINO	USA	10-30-88	4:17.89
7:20.86	11-15-92	USA	ALDO DA ROSA	400	M. I.M.	MAXINE MERLINO	USA	02-07-88	9:07.66
***** M E N *****			80-84 *****			***** W O M E N *****			
37.75	03-21-93	GER	R. REINSTADTLER	50	M. FREE	JULIA DOLCE	USA	10-15-89	48.76
1:27.87	10-27-91	USA	GERSON SOBEL	100	M. FREE	V CHERRIMAN	GBR	12-13-87	1:53.70
3:22.37	10-27-91	USA	GERSON SOBEL	200	M. FREE	JULIA DOLCE	USA	10-15-89	4:17.73
7:05.20	12-17-86	AUS	F LOUGH	400	M. FREE	MAXINE MERLINO	USA	12-13-92	8:48.24
15:07.97	10-31-92	USA	HERBERT HOWE	800	M. FREE	V CHERRIMAN	GBR	12-13-87	18:11.90
29:58.32	12-21-86	USA	GUS LANGNER	1500	M. FREE	MAXINE MERLINO	USA	11-22-92	35:07.91
45.93	01-30-93	GER	R. REINSTADTLER	50	M. BACK	MAXINE MERLINO	USA	11-08-92	59.47
1:44.14	03-21-93	GER	R. REINSTADTLER	100	M. BACK	UME WADA	JPN	05-17-92	2:06.95
4:01.12	02-01-87	USA	HERB EISENSCHMIDT	200	M. BACK	MAXINE MERLINO	USA	10-11-92	4:38.53
45.52	- -91	GER	KARL WITTENBERG	50	M. BRST	MAXINE MERLINO	USA	11-08-92	1:05.64
2:04.00	03-14-93	ITA	LOMBARDI ENZO	100	M. BRST	MAXINE MERLINO	USA	10-11-92	2:21.80
4:42.90	02-21-93	ITA	LOMBARDI ENZO	200	M. BRST	MAXINE MERLINO	USA	10-24-92	5:00.63
49.08	08-11-91	USA	JESSE COON	50	M. FLY	MAXINE MERLINO	USA	11-08-92	1:05.04
2:07.29	08-11-91	USA	JESSE COON	100	M. FLY	MAXINE MERLINO	USA	10-24-92	2:30.84
5:14.66	08-11-91	USA	JESSE COON	200	M. FLY	MAXINE MERLINO	USA	10-17-92	5:22.65
1:49.06	03-13-93	GER	R. REINSTADTLER	100	M. I.M.	MAXINE MERLINO	USA	11-08-92	2:07.52
4:22.04	04-29-92	JPN	RYOUSUKE YAMASAKI	200	M. I.M.	MAXINE MERLINO	USA	10-24-92	4:45.93
9:25.63	09-11-88	USA	HERB EISENSCHMIDT	400	M. I.M.	MAXINE MERLINO	USA	10-11-92	9:50.43

WORLD RECORDS

SHORT COURSE METERS (as of 5-1-93)

*****		M E N		*****		85-89		*****		W O M E N		*****	
44.61	10-15-89	USA	GUS LANGNER	50	M.	FREE	MARIAN MCKECHNIE	USA	10-15-89	1:03.78			
1:41.46	10-15-89	USA	GUS LANGNER	100	M.	FREE	ANNA BAUSCHER	USA	10-15-89	3:01.15			
3:48.20	10-15-89	USA	GUS LANGNER	200	M.	FREE	MARIAN MCKECHNIE	USA	10-15-89	5:33.83			
7:54.24	12-10-88	USA	GUS LANGNER	400	M.	FREE							
16:53.90	12-10-88	USA	GUS LANGNER	800	M.	FREE	MARIAN MCKECHNIE	USA	10-15-89	24:05.34			
32:20.20	12-11-88	USA	GUS LANGNER	1500	M.	FREE							
56.86	03-21-93	GER	RUDI SCHUBERT	50	M.	BACK	MARIAN MCKECHNIE	USA	10-15-89	1:13.57			
2:13.02	12-07-91	USA	HERB EISENSCHMIDT	100	M.	BACK	ANNA BAUSCHER	USA	10-15-89	2:52.17			
5:21.96	09-12-92	USA	JOE KAUFMAN	200	M.	BACK	MARIAN MCKECHNIE	USA	10-15-89	6:00.16			
1:01.61	03-21-93	GER	RUDI SCHUBERT	50	M.	BRST	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	AUS	L. SPARRIUS	50	M.	FREE	VERA FERNANCE	AUS	- -89	2:06.95			
2:49.33	12-09-90	USA	PAUL SPANGLER	100	M.	FREE	VERA FERNANCE	AUS	- -89	4:23.67			
5:51.45	12-09-90	USA	PAUL SPANGLER	200	M.	FREE							
11:09.76	12-08-89	USA	PAUL SPANGLER	400	M.	FREE							
				800	M.	FREE							
51:43.20	12-09-90	USA	PAUL SPANGLER	1500	M.	FREE							
1:29.99	04-02-89	USA	TOM LANE	50	M.	BACK	VERA FERNANCE	AUS	- -89	1:55.07			
				100	M.	BACK	VERA FERNANCE	AUS	- -90	4:19.46			
				200	M.	BACK							
1:50.16	04-02-89	USA	TOM LANE	50	M.	BRST	DORIS VENNING	NZL	- -91	1:49.01			
				100	M.	BRST	DORIS VENNING	NZL	- -91	4:05.59			
				200	M.	BRST							
				50	M.	FLY							
				100	M.	FLY							
				200	M.	FLY							
				100	M.	I.M.							
				200	M.	I.M.							
				400	M.	I.M.							

WORLD RECORDS

SHORT COURSE METERS (as of 5-1-93)

***** 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	TAMSIN 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	TAMSIN 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 COUNTY Y-USA	12-05-92	2:52.00
	KERSTIN GJORES	KRISTINA VADEM			REGAN KENNER	CAROL TAYLOR	
	MARIANNE GRANE	ANN-MARI GERNANDT			ARDETH MUELLER	JEAN SCHNORBUS	
280	+ HESTON-ENG	10-18-92	3:10.22	280	+ MANLY-AUST	10-26-91	3:28.26
	DOROTHY WILLIAMS	DOROTHY WESTON			ELIZABETH WALLIS	BETTY CALLAGHAN	
	EDITH HEWITT	VALERIE HARDMAN			EILEEN PRICE	LILIAN JOHNSON	
320	+			320	+		

***** RELAY 200 M. FREE - M E N *****			***** RELAY 200 M. MEDLEY - M E N *****				
100	+ B.COPTHALL-ENG	10-18-92	1:35.91	100	+ B.COPTHALL-ENG	10-18-92	1:48.16
	MARK MATTHEWS	ANDY COTTER			ANDY COTTER	TIM HOBBSLEY	
	JIM HOBBSLEY	KEVIN FROST			MARK MATTHEWS	KEVIN FROST	
120	+ BAYLOR/LSTAR	03-21-92	1:37.89	120	+ GCWP-USA	10-15-89	1:50.73
	RICHARD HESS	DOUG MOYSE			BRIAN GOODELL	SCOTT BECKER	
	M.RHODENBAUGH	BOBBY PATTEN			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 HEIDENREICH	BRYAN AUSTIN			JERRY HEIDENREICH	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	+ KOCHIKUUKO	02-07-93	2:01.12	240	+ KOCHIKUUKO	02-07-93	2:16.56
	AKIKAZU TAKEMOTO	AKIHIKO YABE			AKIHIKO YABE	NOBUMASA YAMASAKI	
	TSUTAE IWAGO	NOBUMASA YAMASAKI			AKIKAZU TAKEMOTO	TSUTAE IWAGO	
280	+ HELLAS-SWE	03-27-88	2:11.80	280	+ SHUEI-JAPAN	11-03-92	2:33.74
	ERIK KARLSSON	NILS FERM			GORO TANIGUCHI	HIROMU YOSHIMOTO	
	OLLE NYMAN	ARNE JUTNER			KEIICHI TOKUNAGA	SHUICHI MURAYAMA	
320	+ SC POSEIDON-GER	11-08-92	3:14.13	320	+ SC POSEIDON-GER	11-08-92	3:44.22
	KARL WITTENBERG	FRITZ MONKE			RUDOLF SCHUBERT	ARNOLD SCHUBLER	
	RUDOLF SCHUBERT	ARNOLD SCHUBLER			KARL WITTENBERG	FRITZ MONKE	

***** 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	+ GIMSA-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	+ SG NENKOLLN-GER	11-08-92	2:12.50
	PAUL HUTINGER	IRENE DAVID			S. FELGENTRAGER	MONIKA SENFTLEBEN	
	COLLEEN MALMEN	RAY PADOVAN			MANFRED BROCK	B. SCHLURIKE	
240	+ LOS ALTOS	11-15-92	2:12.98	240	+ LOS ALTOS-USA	10-06-91	2:32.46
	JOHN RICHARDS	JAY CRADDOCK			DELLA SEHORN	JOHN RICHARDS	
	DELLA SEHORN	LAURA VAL			LAURA VAL	JAY CRADDOCK	
280	+ CONNECTICUT	04-20-88	2:38.80	280	+ CONNECTICUT-USA	10-21-92	3:06.67
	JERRY JARROLD	DOROTHY DONNELLY			NANCY PHILLIPS	ROGER CHAMBERLAIN	
	RUTH BILLARD	GUS LANGNER			RONNIE KAMPHAUSEN	HARRY BARTLETT	
320	+ SAN MATEO	09-12-92	3:48.82	320	+ SAN MATEO-USA	10-06-91	4:23.02
	MARGARET KEIL	JOE KAUFMAN			JOE KAUFMAN	HILDA BUEL	
	AUDREY ETIENNE	RAY TAFT			RAY TAFT	MARGARET KEIL	

WORLD RECORDS

LONG COURSE METERS (as of 5-1-93)

***** 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	ITA	- -89 32.01
1:04.60	07-30-89	USA	DAVID LUNDBERG	100	M. BRST	S. SEMINATORE	ITA	- -90 1:16.05
2:26.73	- -87	GER	T. LIGL	200	M. BRST	SHARON DAVIES	GBR	- -90 2:42.02
25.16	-83-84	USA	DEFORREST/BOTTOM	50	M. FLY	ROSEMARIE SEAMAN	USA	08-24-87 28.79
56.34	04-28-84	USA	MICHAEL BOTTOM	100	M. FLY	ROSEMARIE SEAMAN	USA	08-24-87 1:03.91
2:05.25	- -84	TCH	M. LUKASEK	200	M. FLY	S PALMER-WHITE	AUS	- -92 2:18.69
				100	M. I.M.			
2:09.21	08-08-87	USA	CAMERON REID	200	M. I.M.	SHARON DAVIES	ENG	- -90 2:22.00
4:34.08	08-09-87	USA	CAMERON REID	400	M. I.M.	SHARON 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	GBR	- -88 34.56
1:05.65	08-18-91	USA	DAVID LUNDBERG	100	M. BRST	M. HOHMANN	GBR	- -88 1:14.52
2:24.06	08-18-91	USA	DAVID LUNDBERG	200	M. BRST	DAGMAR HILBIG	GER	- -89 2:48.41
25.31	10-15-88	USA	MIKE BOTTOM	50	M. FLY	BETH HARRELL	USA	07-05-92 29.22
56.64	10-15-88	USA	MIKE BOTTOM	100	M. FLY	BETH HARRELL	USA	07-05-92 1:06.08
2:07.71	08-09-87	USA	JIM BELARDI	200	M. FLY	KAREN BURTON	USA	08-23-92 2:27.54
				100	M. I.M.			
2:09.69	08-18-91	USA	DAVID LUNDBURG	200	M. I.M.	S. NEILSON-BELL	USA	08-28-88 2:29.22
4:40.44	07-05-92	USA	DAVID LUNDBERG	400	M. I.M.	KAREN BURTON	USA	08-23-92 5:11.39
***** M E N *****			***** 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	AUS	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
				100	M. I.M.			
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 *****		
24.93	07-05-92	USA	TOM WHATLEY	50	M. FREE	LAURA VAL	USA	08-23-92 28.05
56.01	07-05-92	RSA	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
				100	M. I.M.			
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 5-1-93)

***** M E N *****				45-49 *****				***** W O M E N *****			
25.30	08-09-90	USA	RICHARD ABRAHAMS	50	M.	FREE	ARDETH MUELLER	USA	08-08-87	29.08	
57.04	08-23-92	USA	ANDREW MCPHERSON	100	M.	FREE	ARDETH MUELLER	USA	08-24-87	1:05.44	
2:07.18	08-11-90	USA	TIM GARTON	200	M.	FREE	ARDETH MUELLER	USA	07-11-87	2:24.24	
4:27.70	07-05-92	USA	BOB MOMSEN	400	M.	FREE	ARDETH MUELLER	USA	08-24-87	5:08.67	
9:31.38	07-05-92	USA	BOB MOMSEN	800	M.	FREE	ARDETH MUELLER	USA	07-11-87	10:48.41	
18:34.73	08-28-83	USA	ED HINSHAW	1500	M.	FREE	ARDETH MUELLER	USA	07-25-87	21:08.30	
30.67	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	GBR	07-05-92	2:50.27	
32.76	07-14-91	USA	RICK NESBIT	50	M.	BRST	J MACLEOD	AUS	- 91	37.77	
1:12.98	07-05-92	USA	ROBERT STRAND	100	M.	BRST	CAROLYN BOAK	USA	08-23-92	1:26.28	
2:41.88	08-02-92	USA	PETER WISNER	200	M.	BRST	CAROLYN BOAK	USA	07-05-92	3:09.19	
27.12	08-23-92	USA	DAN THOMPSON	50	M.	FLY	ARDETH MUELLER	USA	08-24-87	30.74	
1:02.84	08-23-92	USA	ANDREW MCPHERSON	100	M.	FLY	ARDETH MUELLER	USA	07-11-87	1:12.67	
2:27.56	02-21-93	AUS	JOHN COVACEVICH	200	M.	FLY	ARDETH MUELLER	USA	08-24-87	2:44.10	
				100	M.	I.M.					
2:24.39	07-05-92	USA	BOB MOMSEN	200	M.	I.M.	ARDETH MUELLER	USA	07-25-87	2:46.91	
5:12.03	07-05-92	USA	BOB MOMSEN	400	M.	I.M.	ARDETH MUELLER	USA	07-26-87	5:54.98	
***** M E N *****				50-54 *****				***** W O M E N *****			
26.16	08-28-83	USA	DON HILL	50	M.	FREE	ARDETH MUELLER	USA	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	
2:10.45	11-15-92	USA	TIMOTHY GARTON	200	M.	FREE	ARDETH MUELLER	USA	08-18-91	2:32.25	
4:43.72	11-15-92	USA	TIMOTHY GARTON	400	M.	FREE	ARDETH MUELLER	USA	08-18-91	5:16.62	
9:55.59	11-15-92	USA	TIMOTHY GARTON	800	M.	FREE	ARDETH MUELLER	USA	08-18-91	10:58.47	
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	SATOKO TAKEUJI	JPN	09-15-92	34.87	
1:10.14	10-15-88	USA	JOHN SMITH	100	M.	BACK	MARGARET WILDING	GBR	06-07-92	1:21.01	
2:34.01	04-04-92	NZL	BARRY YOUNG	200	M.	BACK	SATOKO TAKEUJI	JPN	09-15-92	2:51.11	
33.38	- 86	JPN	HIROSHI KOTEGAWA	50	M.	BRST	MONIKA SENFTLEBEN	GER	06-20-92	39.52	
1:15.60	08-28-83	USA	MANUEL SANGUILY	100	M.	BRST	JOANN LEILICH	USA	08-20-90	1:28.83	
2:51.68	- 92	AUS	MICHAEL MOLONEY	200	M.	BRST	FLORA CONNOLLY	GBR	- 86	3:14.70	
28.63	08-08-90	USA	MICHAEL MEALIFFE	50	M.	FLY	ARDETH MUELLER	USA	08-18-91	32.76	
1:05.83	11-15-92	USA	TIMOTHY GARTON	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 MUCKLEROY	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	
33.30	09-15-92	JPN	HIROSHI KOTEGAWA	50	M.	BRST	JAYNE BRUNER	USA	08-18-91	39.91	
1:17.87	08-28-88	USA	JOHN KORTHEUER	100	M.	BRST	JAYNE BRUNER	USA	08-23-92	1:29.88	
2:56.20	- 90	GBR	THOMAS WALKER	200	M.	BRST	FLORA CONNOLLY	GBR	- 89	3:18.11	
30.17	08-23-92	USA	ROBERT PROEBSTING	50	M.	FLY	GAIL ROPER	USA	08-20-85	35.29	
1:10.28	08-23-92	USA	ROBERT PROEBSTING	100	M.	FLY	GAIL ROPER	USA	08-12-85	1:27.49	
2:48.98	08-23-92	USA	ROBERT PROEBSTING	200	M.	FLY	FLORA CONNOLLY	GBR	- 89	3:17.68	
				100	M.	I.M.					
2:43.57	08-12-90	USA	BURWELL JONES	200	M.	I.M.	JAYNE BRUNER	USA	08-23-92	3:06.11	
5:53.53	08-09-90	USA	BURWELL JONES	400	M.	I.M.	GAIL ROPER	USA	08-12-85	6:42.05	
***** M E N *****				60-64 *****				***** W O M E N *****			
27.86	07-05-92	USA	DONALD HILL	50	M.	FREE	JANE ASHER	GBR	07-05-92	33.60	
1:02.80	07-05-92	USA	DONALD HILL	100	M.	FREE	JANE ASHER	GBR	- 91	1:14.25	
2:23.11	07-05-92	USA	DONALD HILL	200	M.	FREE	CLARA WALKER	USA	08-28-88	2:50.03	
5:05.54	08-18-91	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	
31.66	10-04-92	JPN	HITOSHI KATO	50	M.	FLY	JANE ASHER	GBR	- 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 5-1-93)

***** M E N *****			***** 65-69 *****			***** W O M E N *****		
28.94	- -91	GER	B SCHLURIKE	50	M. FREE	CLARA WALKER	USA	07-05-92 34.75
1:08.15	08-28-83	USA	JAMES WELCH	100	M. FREE	CLARA WALKER	USA	07-05-92 1:16.84
2:32.90	06-21-87	USA	PETER POWLISON	200	M. FREE	CLARA WALKER	USA	07-05-92 2:48.51
5:38.79	08-28-83	USA	JAMES WELCH	400	M. FREE	CLARA WALKER	USA	08-18-91 6:05.22
11:35.97	- -91	AUS	R. HARTLEY	800	M. FREE	CLARA WALKER	USA	07-05-92 12:27.60
22:29.32	08-02-92	USA	WIN WILSON	1500	M. FREE	CLARA WALKER	USA	08-02-92 24:07.05
35.47	08-20-89	USA	GEORGE GANDSEY	50	M. BACK	CLARA WALKER	USA	08-23-92 39.85
1:20.74	07-05-92	USA	ROGER FRANKS	100	M. BACK	DORIS STEADMAN	USA	08-20-90 1:31.58
2:55.46	07-05-92	USA	ROGER FRANKS	200	M. BACK	DORIS STEADMAN	USA	08-20-90 3:17.12
38.28	07-12-91	USA	JOSEPH KURTZMAN	50	M. BRST	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	MARGARET EVANS	GBR	- -89 3:45.71
33.34	- -87	GBR	JACK HALE	50	M. FLY	FLORENCE CARR	USA	08-20-90 43.35
1:20.59	08-23-92	USA	JOSEPH KURTZMAN	100	M. FLY	JUNE KRAUSER	USA	06-23-91 1:40.35
3:08.79	07-12-91	USA	JOSEPH KURTZMAN	200	M. FLY	JUNE KRAUSER	USA	07-05-92 3:42.61
				100	M. I.M.			
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	DOMEI SUZUKI	400	M. FREE	CATHERINE KERR	CAN	07-05-92 7:15.99
12:34.22	- -91	JPN	DOMEI SUZUKI	800	M. FREE	RITA SIMONTON	USA	08-14-88 15:04.91
23:59.01	08-18-91	JPN	DOMEI 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	BERYL ANDERSON	AUS	- -87 1:39.85
3:13.25	08-20-89	USA	RAY TAFT	200	M. BACK	BERYL ANDERSON	AUS	- -87 3:47.59
40.56	- -90	GER	WALTER MINNICH	50	M. BRST	INGEBORG FRITZE	GER	07-05-92 49.57
1:33.20	08-26-84	USA	BENNETT ALLEN	100	M. BRST	BETTY CHRISTIAN	USA	07-05-92 1:52.88
3:32.90	08-28-88	USA	ALDO DA ROSA	200	M. BRST	BETTY CHRISTIAN	USA	07-05-92 4:06.80
35.65	07-30-89	USA	RAY TAFT	50	M. FLY	CATHERINE KERR	CAN	07-05-92 46.55
1:32.85	08-20-90	USA	ANDREW HOLDEN	100	M. FLY	MARIA LENK	BRA	- -85 2:02.61
3:38.48	- -87	AUS	D JEFFREY	200	M. FLY	MAXINE MERLINO	USA	08-29-82 4:37.05
				100	M. I.M.			
3:11.42	08-20-89	USA	RAY TAFT	200	M. I.M.	CATHERINE KERR	CAN	07-05-92 3:51.91
6:59.24	08-20-89	USA	RAY TAFT	400	M. I.M.	EVA RAUNER	GER	- -90 8:33.57
***** M E N *****			***** 75-79 *****			***** W O M E N *****		
32.50	08-28-83	USA	LYLE COLLET	50	M. FREE	HATSUHO SUGAYA	JPN	- -91 40.85
1:14.86	08-24-87	USA	KELLEY LEMMON	100	M. FREE	UME WADA	JPN	- -86 1:39.28
2:53.73	08-24-87	USA	KELLEY LEMMON	200	M. FREE	V. CHERRIMAN	GBR	- -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	GBR	- -91 46.64
1:32.92	08-29-82	USA	ARTHUR HARGRAVE	100	M. BACK	WILLY VAN RYSEL	GBR	- -91 1:49.73
3:25.93	08-18-91	USA	EDWARD SHEA	200	M. BACK	MARIE WICKLUN	USA	08-20-89 4:07.44
42.58	- -90	JPN	HIROMU YOSHIMOTO	50	M. BRST	EMMI PAULI	GER	- -89 52.90
1:39.69	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	UME WADA	JPN	- -91 44.25
1:28.22	08-03-90	USA	GERSON SOBEL	100	M. FREE	UME WADA	JPN	- -91 1:39.30
3:31.79	08-28-83	USA	GUS LANGNER	200	M. FREE	UME WADA	JPN	- -92 3:44.00
7:23.09	08-28-83	USA	GUS LANGNER	400	M. FREE	UME WADA	JPN	- -91 8:23.50
15:48.62	- -90	JPN	TOSHIO TERA0	800	M. FREE	UME WADA	JPN	- -91 17:21.19
28:54.95	08-13-83	USA	GUS LANGNER	1500	M. FREE	UME WADA	JPN	11-15-92 33:59.65
45.69	08-08-87	USA	ART HARGRAVE	50	M. BACK	M WRIGHT	AUS	- -89 53.73
1:45.37	12-06-92	GER	R.REINSTADTLER	100	M. BACK	M WRIGHT	AUS	- -89 2:01.87
3:58.25	07-05-92	USA	CHARLES SALIE	200	M. BACK	M WRIGHT	AUS	- -89 4:22.89
46.59	- -91	GER	KARL WITTENBERG	50	M. BRST	UME WADA	JPN	07-12-92 1:04.36
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	GBR	- -88 1:13.71
2:21.06	07-14-91	USA	JESSE COON	100	M. FLY	MAXINE MERLINO	USA	08-01-92 2:37.32
5:11.48	- -89	AUS	FRANK GRIFFITHS	200	M. FLY	MAXINE MERLINO	USA	08-23-92 5:29.93
				100	M. I.M.			
4:20.72	- -89	AUS	FRANK GRIFFITHS	200	M. I.M.	MAXINE MERLINO	USA	08-23-92 4:47.02
9:47.72	- -88	AUS	FRANK GRIFFITHS	400	M. I.M.	MAXINE MERLINO	USA	08-23-92 10:05.13

WORLD RECORDS

LONG COURSE METERS (as of 5-1-93)

*****		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	DORIS VENNING	NZL	- -87	1:28.69			
2:18.92	- -91	JPN	SHOHEI YOSHIDA	100	M.	BRST	KATHERINE PELTON	USA	06-26-91	3:18.97			
5:09.86	- -91	JPN	SHOHEI YOSHIDA	200	M.	BRST	ELLA PECKHAM	USA	- -84	7:45.92			
59.50	- -91	JPN	SHOHEI 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	VERA FERNANCE	AUS	- -88	2:01.70			
3:19.14	07-05-92	USA	TOM LANE	100	M.	BACK	VERA FERNANCE	AUS	- -88	3:59.89			
8:59.53	07-22-90	USA	TONY LOPEZ	200	M.	BACK	PEARL MILLER	USA	07-16-89	10:47.76			
1:36.87	05-28-89	USA	TOM LANE	50	M.	BRST							
5:16.03	08-29-82	USA	LUDWIG MAGENER	100	M.	BRST							
				200	M.	BRST							
				50	M.	FLY							
				100	M.	FLY							
				200	M.	FLY							
				100	M.	I.M.							
				200	M.	I.M.							
				400	M.	I.M.							

WORLD RECORDS

LONG COURSE METERS (as of 5-1-93)

***** RELAY 200 M. FREE - WOMEN *****				***** RELAY 200 M. MEDLEY - WOMEN *****			
100	+ HOLMES-USA	08-28-88	1:53.20	100	+ HOLMES - USA	08-28-88	2:06.67
	MARY HOLMES	SUSAN HALFACRE			BETH MAUER	DEB WALKER	
	BETH MAUER	TISH BUCHER			TISH BUCHER	MARY HOLMES	
120	+ LONE STAR-USA	08-24-87	1:53.05	120	+ HOLMES - USA	- -88	2:08.21
	MONICA BURK	BRIGITTE HEUER					
	L. MORRISON-CASEY	JACKI HIRSTY					
160	+ D.C.MASTERS-USA	08-28-88	2:03.48	160	+ ROCKY MT. - USA	07-05-92	2:15.86
	JACKI HIRSTY	NANCY KIRKENDALL			SHARON LAHEY	CATHY DROZDA	
	ANN SVANSON	SUE HARRINGTON			JUDY REED	MARCY BULLOCK	
200	+ LOS ALTOS-USA	08-23-92	2:09.35	200	+ NEUK-GER	07-05-92	2:27.18
	CAROLYN BOAK	ARLENE PROEBSTING			BRIGITTE MERTEN	MONIKA SENFTLEBEN	
	DELLA SEHORN	LAURA VAL			HEIDI KAMPSCHULTE	MARGA SCHULZE	
240	+ HOLMES - USA	- -88	2:28.24	240	+ HOLMES - USA	- -88	2:51.82
280	+ HOLMES - USA	- -88	3:09.01	280	+ 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	08-11-90	1:37.40	100	+ POWERS-AUST	04-07-90	1:49.84
	JOSE SANTOS	JORGE FERNANDES			BRAD COOPER	NEIL GYNTHNER	
	M. GOLDENSTEIN	JOSE MOREIRA			ANKER BRODERSEN	ANGUS WADDELL	
120	+ LONE STAR	07-16-86	1:37.43	120	+ POWERS-AUST	04-07-90	1:49.84
	DAVID HAGUE	JAMES MONTGOMERY			BRAD COOPER	NEIL GYNTHNER	
	TRIP HEDRICK	BUCK SMITH			ANKER BRODERSEN	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	+ SHUEI-JPN	09-15-92	2:10.18	280	+ OREGON	08-23-92	2:34.57
	SHUICHI MURAYAMA	JUZO TSUBOTA			FLOYD ELIOTT	BOB MORRISON	
	ISAMU TAMURA	KEIJIRO NAKAMURA			ANDREW HOLDEN	GERALD HUESTIS	
320	+ LONG BEACH	08-02-92	2:59.65	320	+ LONG BEACH	08-02-92	3:58.14
	DON NEEFE	JOHN GLENN			DON NEEFE	JOHN GLENN	
	LIONEL PEREIRA	WOODY BOWERSOCK			WOODY BOWERSOCK	LIONEL PEREIRA	

***** RELAY 200 M. FREE - MIXED *****				***** RELAY 200 M. MEDLEY - MIXED *****			
100	+ HOLMES - USA	- -88	1:43.89	100	+ HOLMES - USA	08-28-88	1:56.58
					BETH MAUER	BRUCE HOWELL	
					SAM SEIPLE	MARY HOLMES	
120	+ HOLMES - USA	- -88	1:44.83	120	+ D.C. MASTERS	- -85	1:58.03
					THOMAS WOLF	MATTHEW KANZLER	
					SUSAN SKIFF	JACKI HIRSTY	
160	+ ROCKY MT. - USA	07-05-92	1:47.46	160	+ HOLMES - USA	- -88	2:02.10
	CATHY DROZDA	JUDY REED					
	TOM WHATLEY	RICHARD ABRAHAMS					
200	+ LOS ALTOS - USA	08-23-92	1:58.15	200	+ LOS ALTOS - USA	08-23-92	2:14.58
	EDWARD CAZALET	CAROLYN BOAK			EDWARD CAZALET	CAROLYN BOAK	
	ARLENE PROEBSTING	ROBERT PROEBSTING			ROBERT PROEBSTING	ARLENE PROEBSTING	
240	+ HOLMES - USA	- -88	2:09.67	240	+ NEW ENGLAND-USA	08-28-88	2:29.30
					CLARA WALKER	TED HAARTZ	
					WIN WILSON	DIANE REED	
280	+ OREGON	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

1993 Short Course Yards includes times performed between June 1, 1992 and May 31, 1993, reported by our LMSCs to our National Recorder, Walt Reid. Walt also includes our two National Championships, and times made by USMS registered swimmers in other approved competitions (National YMCA Championships, Senior Olympics, etc.) or other foreign competitions certified by a designated observer.

The indented time in each event is the current record. The symbol "NV" after an individual or relay time indicates the time is faster than the current record, but is currently "Not Verified" as a record. Either the record application has not yet been received or it is incomplete or there was not a minimum quality of electronic timing or three watches. Regardless of verification, the time still remains in the Top Ten List.

Next issue will be 1993 Long Course, mailed in December.

The Top Ten Crew—Walt Reid, Betsy Durrant, Dot Donnelly, and Gene Donner.

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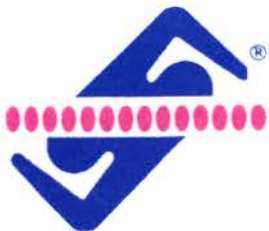
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