

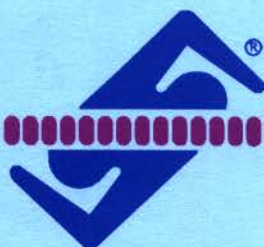
\$6.00

*United States
Masters Swimming, Inc.*

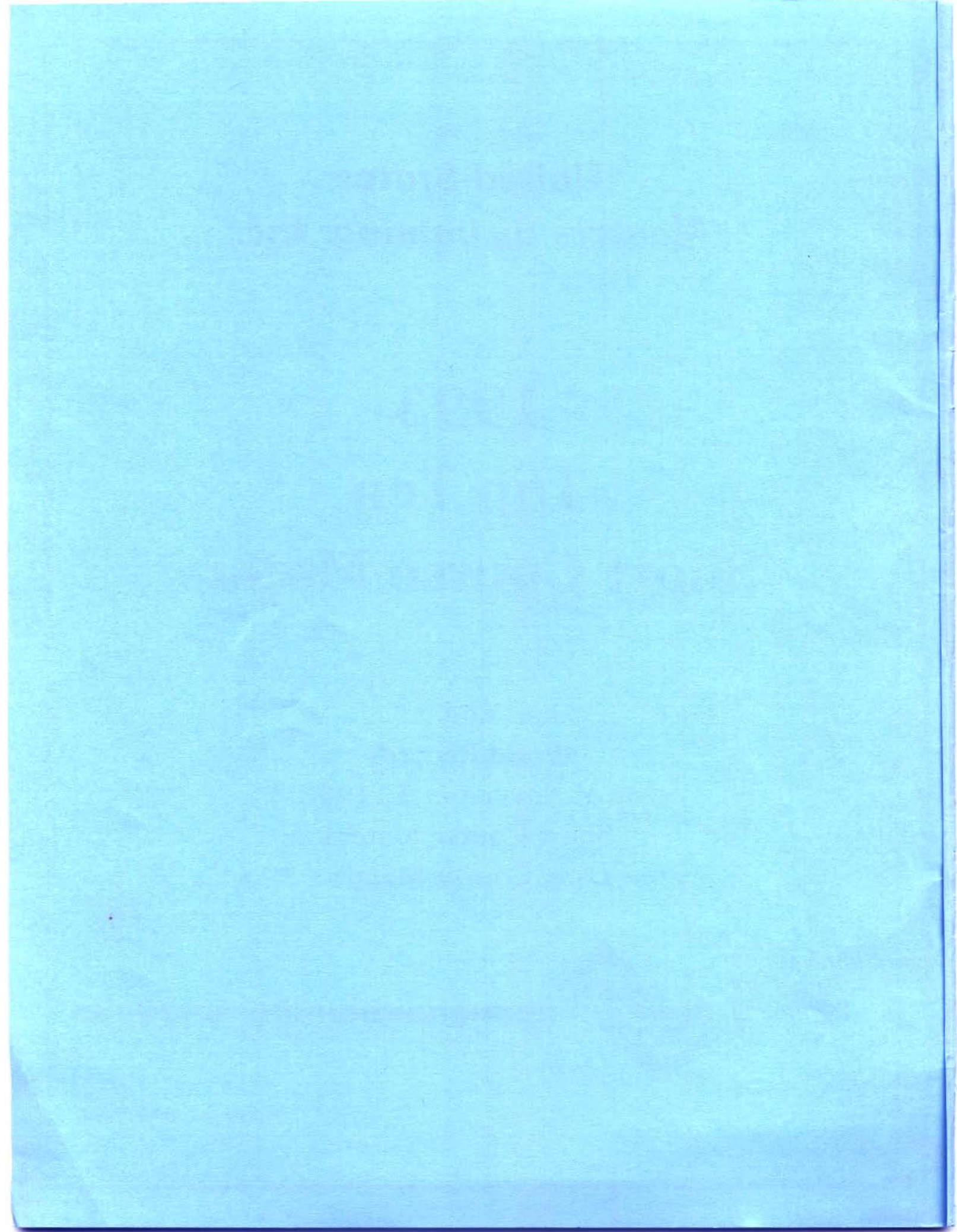
**1993
Top Ten
Short Course Meters**

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

**United States
Masters
Swimming**



Published April 1994



TOP TEN

SHORT COURSE METERS

50 M. FREE WOMEN 19-24	37.17 TERRI GOARD	23	1:12.13 AMY CHOROMANSKIS	24	2:06.47 DIANE GRANER	89
27.54 MICHELLE CHOW	38.29 JESS HULNIK	22	1:13.90 JILL ROODIN	22	2:12.31 SUSIE RABIAH	26
27.54 MICHELLE CHOW	38.76 DANIELLE SIRBU	19	1:14.88 CHRISTINE KOENIG	23	2:14.26 C.CHOROMANSKIS	25
28.37 AMANDA NICKOLOFF	100 M. BACK WOMEN 19-24		1:15.10 EMILY RAMIREZ	20	2:15.39 DIANNE GLEASON	28
28.62 M GARDNER	1:10.77 MIKO MCGINTY	93	1:26.36 JOAN VER HALEN	24	2:16.47 LIESA BENN	28
28.63 TRISH KLASMEIER	1:08.50 LAURA VITCENDA	22NV	1:27.58 DANA FRANKS	20	2:16.95 VICKY DAVIDSON	29
28.68 LOUISE KEOGH	1:10.77 MIKO MCGINTY	22	1:29.06 DANIELLE SIRBU	19	2:17.92 DIANNE WYGAL	27
28.91 LORI GANO-OVERWAY	1:12.83 TRACEY CRILLY	23	1:30.48 JESS HULNIK	22	2:18.19 NANCY BUCHHOLZ	26
29.05 URTE JACOBS	1:13.45 CHRIS. SHILKUNAS	24	200 M. FLY WOMEN 19-24		2:19.93 S.L. HELMBRECHT	29
29.06 JARA FATOUT	1:13.46 NINA RADOJEVICH	21	2:34.28 CHRISTINA PLANJE	91	2:20.01 LISA SHEEPER	29
29.14 LAURA VITCENDA	1:13.85 LORI GANO-OVERWAY	24	2:40.44 AMY CHOROMANSKIS	24	2:20.15 AMY KNOTT	25
29.15 MIKO MCGINTY	1:14.65 JILL MATTHEWS	21	2:45.12 CHRISTINE KOENIG	23	400 M. FREE WOMEN 25-29	
100 M. FREE WOMEN 19-24	1:15.79 ANNE PENNISTON	23	2:52.23 EMILY RAMIREZ	20	4:26.18 DIANE GRANER	89
1:00.14 MICHELLE CHOW	1:16.88 TINA ESSEX	23	3:26.29 DANA FRANKS	20	4:42.05 SUSIE RABIAH	26
1:00.14 MICHELLE CHOW	1:17.91 MARCELLE BACLASKI	24	100 M. I.M. WOMEN 19-24		4:49.25 LISA SHEEPER	29
1:01.10 LAURA VITCENDA	200 M. BACK WOMEN 19-24		1:09.25 MICHELLE CHOW	93	4:50.46 LIESA BENN	28
1:01.37 TRISH KLASMEIER	2:34.32 C. HARTZELL	88	1:09.25 MICHELLE CHOW	24	4:56.29 MARCIA CLEVELAND	29
1:02.92 AMANDA NICKOLOFF	2:31.29 LAURA VITCENDA	22NV	1:11.42 LAURA VITCENDA	22	4:56.38 DONNA JOHNSON	26
1:03.93 JARA FATOUT	2:35.99 MIKO MCGINTY	22	1:13.11 TRACEY CRILLY	23	4:59.88 AMY KNOTT	25
1:04.48 M GARDNER	2:44.96 AMANDA HALL	24	1:14.88 CHRISTINE SCHULTZ	22	5:01.04 GLORIA NEMET	29
1:05.06 MIKO MCGINTY	2:45.74 CHRISTINE KOENIG	23	1:15.43 URTE JACOBS	19	5:07.16 E HALOUZKA	29
1:06.04 ALISON JOZSI	2:58.42 JESS HULNIK	22	1:16.11 AMANDA HALL	24	5:07.85 LYNN UNDERWOOD	29
1:06.63 JENNY FREDRICKS	3:03.74 HELENE RIPA	22	1:17.25 HELEN HASTINGS	20	5:11.92 SARAH WILLIAMS	29
1:06.91 AMY CHOROMANSKIS	3:07.23 ALLISON LANDRY	23	1:17.38 CHERESE EDER	21	800 M. FREE WOMEN 25-29	
200 M. FREE WOMEN 19-24	3:40.66 KENRA GILLANDERS	21	1:18.18 TINA SCHMIDT	20	9:18.99 DIANE GRANER	90
2:15.34 STACY JONES	50 M. BRST WOMEN 19-24		1:18.21 PIPPI VAUGHAN	20	10:15.45 DIANNE GLEASON	28
2:16.95 TRISH KLASMEIER	36.05 PAMELA URBAS	92	200 M. I.M. WOMEN 19-24		10:20.35 GLORIA NEMET	29
2:17.29 LAURA VITCENDA	39.32 CHRISTINE SCHULTZ	22	2:34.20 LISA DIAL	92	10:30.78 LYNN UNDERWOOD	29
2:19.67 AMY CHOROMANSKIS	39.51 PIPPI VAUGHAN	20	2:31.59 LAURA VITCENDA	22NV	10:31.78 MARCIA CLEVELAND	29
2:21.29 JARA FATOUT	40.67 LINDSAY NATA	20	2:36.67 LOUISE KEOGH	24	10:55.70 BARTLEY PRATT	25
2:23.87 MIKO MCGINTY	40.95 KERRY WALLACE	23	2:36.70 AMANDA NICKOLOFF	20	11:02.34 KATHRYN WISEMAN	28
2:27.48 ANNE PENNISTON	41.52 SHERRI WELDON	22	2:37.87 TRACEY CRILLY	23	11:03.13 MARTHA MCLOUGHLIN	29
2:29.21 CHRIS. SHILKUNAS	41.53 STEPHANIE TETU	23	2:41.87 CHRISTINE SCHULTZ	22	11:08.80 RANE SMITH	29
2:35.27 JOAN VER HALEN	42.03 CARLA IWATA	23	2:41.96 JILL KEENAN	24	11:21.67 JENNIFER SAVAGE	28
2:38.07 TERESA FRIAS	42.05 URSULA GARCIA	19	2:42.59 CHRISTINE KOENIG	23	11:34.85 DEBBIE MARTEL	26
2:38.16 TINA SCHMIDT	42.28 KARA DECERB	23	2:44.80 ALISON JOZSI	22	1500 M. FREE WOMEN 25-29	
400 M. FREE WOMEN 19-24	42.88 MEREDITH MAY	22	2:46.80 TINA SCHMIDT	20	17:30.18 KAREN BURTON	91
4:43.50 LISA DIAL	100 M. BRST WOMEN 19-24		2:51.28 MONICA WEAVER	22	19:14.82 ANITA IRONS	29
4:58.94 HEATHER WOLFENDEN	1:16.61 LOUISE KEOGH	93	400 M. I.M. WOMEN 19-24		19:26.89 MARCIA CLEVELAND	29
4:59.07 AMY CHOROMANSKIS	1:16.61 LOUISE KEOGH	24	5:21.53 LISA DIAL	92	20:07.62 ANNETTE HOLMGREN	28
5:09.07 JENNY FREDRICKS	1:21.98 SIGRID GOBEL	24	5:37.40 CHRISTINE SCHULTZ	22	20:13.12 GLORIA NEMET	29
5:26.75 SIGRID GOBEL	1:22.04 AMANDA NICKOLOFF	20	5:45.38 AMANDA NICKOLOFF	19	20:22.84 DIANNE BATSON	25
5:30.58 LINDSAY NATA	1:22.18 TRISH KLASMEIER	23	5:50.99 DEBORAH HEIM	23	20:30.12 SUSIE BLAKE	28
5:42.39 TERESA FRIAS	1:24.00 CHRISTINE SCHULTZ	22	5:54.67 JILL ROODIN	22	20:34.53 MELINDA FINLEY	27
5:42.52 JESS HULNIK	1:24.18 URTE JACOBS	19	6:23.09 CARLA IWATA	23	20:38.97 BARTLEY PRATT	25
5:47.40 JENNIFER BATES	1:27.54 CHERESE EDER	21	*****		20:58.25 CHRISTINE WINN	27
5:56.40 ALLISON LANDRY	1:27.92 NINA RADOJEVICH	21	50 M. FREE WOMEN 25-29		20:59.89 CAROLINE BETHKE	29
5:58.78 DANIELLE SIRBU	1:28.73 LINDSAY NATA	19	26.93 LIZ FABRIZIO	89	50 M. BACK WOMEN 25-29	
800 M. FREE WOMEN 19-24	1:30.28 STEPHANIE TETU	23	27.18 DANA DUTCHER	25	30.63 DIANE GRANER	89
10:00.67 CHRISTINA PLANJE	200 M. BRST WOMEN 19-24		28.24 STACY JONES	27	32.13 VICKY DAVIDSON	29
10:37.39 CHERIE TAYLOR	2:44.74 LOUISE KEOGH	93	28.28 LIESA BENN	28	32.87 SUDI MILLER	26
11:10.66 DEBORAH HEIM	2:44.74 LOUISE KEOGH	24	28.38 SUDI MILLER	26	32.95 JANICE LESYNA	26
11:56.96 JESS HULNIK	2:55.29 AMANDA NICKOLOFF	20	28.39 CHRISTINE HOLMAN	28	33.31 SHELL BOTTA	27
12:17.44 KIRSTEN VIRNIG	2:56.96 CHRISTINE SCHULTZ	22	28.40 SARAH CLEMMITT	28	33.67 CHRISTINE HOLMAN	28
13:25.23 CHERILYN GARCIA	2:59.59 JILL KEENAN	24	28.52 NANCY BUCHHOLZ	26	33.83 AMY HOLLAND	25
1500 M. FREE WOMEN 19-24	3:07.71 CARLA IWATA	23	28.64 VICKY DAVIDSON	29	33.85 TERI ELLIS	25
18:54.01 KRISTIN HENSON	3:18.53 MEREDITH MAY	22	28.87 TRISHA SCHWERZLER	26	34.24 STACY JONES	27
20:32.09 CHRISTINE KOENIG	3:29.36 ALISON BENKE	22	28.88 ELLEN ATKINSON	29	35.04 SANDY GOLDING	28
21:24.00 LARA FORMAN	50 M. FLY WOMEN 19-24		100 M. FREE WOMEN 25-29		35.30 KARLA SAEY	28
21:25.77 LINDSAY NATA	29.66 MICHELLE CHOW	93	59.17 LIZ FABRIZIO	89	100 M. BACK WOMEN 25-29	
22:39.96 JESS HULNIK	29.66 MICHELLE CHOW	24	1:01.48 SUDI MILLER	26	1:04.66 DIANE GRANER	89
24:34.39 KATIE ELLIOTT	31.36 LAURA VITCENDA	22	1:02.27 LIESA BENN	28	1:09.73 JANICE LESYNA	26
26:30.83 NANCY KYLE	31.63 URTE JACOBS	19	1:02.31 C.CHOROMANSKIS	25	1:10.92 SUDI MILLER	26
50 M. BACK WOMEN 19-24	32.69 PIPPI VAUGHAN	20	1:02.56 VICKY DAVIDSON	29	1:11.02 SHELL BOTTA	27
33.30 N. WENGFOSKY	32.98 M GARDNER	23	1:02.79 NANCY BUCHHOLZ	26	1:11.02 VICKY DAVIDSON	29
33.36 MIKO MCGINTY	33.26 JILL ROODIN	22	1:02.82 DIANNE WYGAL	27	1:13.40 AIMEE LEHR	26
33.74 LORI GANO-OVERWAY	33.33 CHRISTINE SCHULTZ	22	1:03.49 KATHY STEELE	29	1:13.42 AMY HOLLAND	25
34.98 AMANDA HALL	33.43 CHERIE TAYLOR	24	1:03.56 TRISHA SCHWERZLER	26	1:13.46 CHRISTINE HOLMAN	28
35.15 KATHERINE NOOK	33.88 CHRIS. SHILKUNAS	24	1:04.10 DIANNE GLEASON	28	1:14.19 AMY KNOTT	25
35.30 MARCELLE BACLASKI	33.98 HEATHER WOLFENDEN	24	1:04.28 AMY KNOTT	25	1:14.22 MARCIA CLEVELAND	29
36.89 TINA ESSEX	100 M. FLY WOMEN 19-24		1:04.28 MICHELE HUYETTE	25	1:15.72 C LOCKMAN	28
36.89 LORI DELUCA	1:07.42 SARAJANE TUREK	90	200 M. FREE WOMEN 25-29		200 M. BACK WOMEN 25-29	

TOP TEN

SHORT COURSE METERS

2:20.66 DIANE GRANER 89	2:28.67 KAREN BURTON 91	200 M. FREE WOMEN 30-34	200 M. BACK WOMEN 30-34
2:32.66 SUDI MILLER 26	2:34.14 C.CHOROMANSKIS 25	2:06.83 SANDY NEILSON 87	2:24.16 KARLYN PIPES 93
2:32.79 JANICE LESYNA 26	2:36.42 SUSIE RABIAH 26	2:13.72 KARLYN PIPES 31	2:24.16 KARLYN PIPES 31
2:33.88 VICKY DAVIDSON 29	2:37.78 MARCIA CLEVELAND 29	2:19.68 DENISE WARE 31	2:30.57 SHEILA MORTELL 31
2:36.23 S.L. HELMBRECHT 29	2:38.30 S MUNATONES 29	2:20.15 LESLIE COOPER 33	2:30.92 ANDREA DEVIUONO 31
2:40.73 AMY HOLLAND 25	2:38.63 TRISHA SCHWERZLER 26	2:20.67 MARGUERITE MEYER 34	2:33.14 BARBARA MILANESE 30
2:41.54 MARCIA CLEVELAND 29	2:43.22 K.J. JOHNSON 28	2:21.19 LYNN FISCHER 33	2:36.79 AMY NEWELL 30
2:44.55 CAROLINE BETHKE 29	2:45.54 K.R.BRUNER-RAINEY 28	2:21.46 NANCY LEWIS 34	2:42.55 LUCILLE GLASSMAN 30
2:44.92 CHRISTINE HOLMAN 28	3:01.25 LESLIE RONACHER 28	2:23.88 LORI SCHMIDT 30	2:48.60 VICKI MARSH 31
2:46.89 KARLA SAEY 28	3:04.00 RANE SMITH 29	2:25.21 BETH SCHEIMANN 31	2:52.82 LISA BOVE 32
2:53.66 JANE ROCKWELL 28	3:09.09 F.CRANNELL 25	2:25.58 KATHY GARNIER 32	2:53.34 LISA DECK 33
50 M. BRST WOMEN 25-29	100 M. I.M. WOMEN 25-29	2:27.87 JEAN DYER 33	2:55.62 DEBRA HANSON 30
34.36 TRACY MCFARLANE 91	1:08.16 BETH O'CONNOR 88	400 M. FREE WOMEN 30-34	50 M. BRST WOMEN 30-34
35.70 SUDI MILLER 26	1:10.15 C.CHOROMANSKIS 25	4:31.88 BETH KNIGHT 90	35.25 VAL KERR-HAUGE 91
37.88 LISA SHEEPER 29	1:10.60 SUDI MILLER 26	4:48.46 BARBARA MILANESE 30	35.92 BETH SCHEIMANN 31
38.07 ELLEN ATKINSON 29	1:10.78 DANA DUTCHER 25	4:52.37 MARGUERITE MEYER 34	37.40 LESLIE COOPER 33
38.73 JENNIFER SAVAGE 27	1:13.85 TERI ELLIS 25	4:53.85 NANCY LEWIS 34	37.47 SUSAN RICHMOND 32
38.82 PAIGE HARPER 27	1:14.67 MICHELE HUYETTE 25	4:54.15 ANDREA DEVIUONO 31	38.12 LISA FLANAGAN 30
38.82 LISA KUMER 28	1:14.91 K.R.BRUNER-RAINEY 28	4:54.50 LESLIE COOPER 33	38.59 JACKIE COLLINS 30
38.84 KATHY STEELE 29	1:14.98 CARA JOY LOCKMAN 28	4:55.39 DENISE WARE 31	39.01 VICKI MARSH 31
39.45 ALLISON HAYES 29	1:15.14 ELLEN ATKINSON 29	4:57.82 AMY NEWELL 30	39.61 TONI ROSS 34
39.50 DIANNE BATSON 25	1:15.38 KATHY STEELE 29	4:59.47 LORI SCHMIDT 30	39.76 CATHERINE REDSON 31
39.59 LIESA BENN 28	1:15.94 CHRISTINE HOLMAN 28	5:00.92 AMY POPE 33	40.07 DIANE HOTZ 31
100 M. BRST WOMEN 25-29	200 M. I.M. WOMEN 25-29	5:01.98 MARIE-H. CHARLAP 33	40.38 DEBRA GOODWYNE 31
1:14.82 TRACY MCFARLANE 91	2:24.07 DIANE GRANER 89	800 M. FREE WOMEN 30-34	100 M. BRST WOMEN 30-34
1:19.68 SUDI MILLER 26	2:33.43 C.CHOROMANSKIS 25	9:17.55 BETH KNIGHT 90	1:17.43 BETH SCHEIMANN 93
1:21.77 LISA SHEEPER 29	2:33.88 SUSIE RABIAH 26	10:06.84 LESLIE COOPER 33	1:17.43 BETH SCHEIMANN 31
1:22.28 ELLEN ATKINSON 29	2:35.51 JANICE LESYNA 26	10:07.52 AMY POPE 33	1:20.36 LISA FLANAGAN 30
1:23.34 JENNIFER SAVAGE 27	2:39.26 K.R.BRUNER-RAINEY 28	10:18.42 MARIE-H. CHARLAP 33	1:21.72 SUSAN RICHMOND 32
1:25.11 KATHY STEELE 29	2:40.24 MARGARET MORTELL 29	10:27.84 LORI SCHMIDT 30	1:23.16 TONI ROSS 34
1:25.72 DIANNE BATSON 25	2:40.53 LIESA BENN 28	10:30.56 LISA FLANAGAN 31	1:24.58 DARBY ELLEMAN 33
1:26.18 CHERYL KUPAN 29	2:41.56 S MUNATONES 29	10:39.97 TESS TULLEY 33	1:24.87 JACKIE COLLINS 30
1:27.07 GLORIA NEMET 29	2:43.24 CHERYL KUPAN 29	10:43.30 JEAN DYER 33	1:25.10 VICKI MARSH 31
1:28.18 MELISSA KERKER 28	2:43.54 MICHELE HUYETTE 25	10:53.34 SUSAN KAN 31	1:27.21 DIANE HOTZ 31
1:29.75 M.MCCONNELL 25	2:43.58 DIANNE WYGAL 27	10:55.37 CYNTHIA MATTHEWS 33	1:27.93 DEBRA GOODWYNE 31
200 M. BRST WOMEN 25-29	400 M. I.M. WOMEN 25-29	11:00.37 EILEEN HARTLE 32	1:28.65 KASS OHRINER 32
2:47.08 GINA GATTI 89	5:18.02 KAREN BURTON 91	1500 M. FREE WOMEN 30-34	200 M. BRST WOMEN 30-34
2:55.88 LISA SHEEPER 29	5:39.43 S MUNATONES 29	18:10.81 BETH KNIGHT 92	2:50.96 KAREN MELICK 91
2:59.22 LISA KUMER 28	5:40.76 CHERYL KUPAN 29	18:10.81 BETH KNIGHT 33	2:51.90 E.SCHEIMANN 31
3:06.11 CHERYL KUPAN 29	5:42.36 JILL LEMONE 27	18:45.34 MARGUERITE MEYER 34	2:54.78 SUSAN RICHMOND 32
3:06.21 GLORIA NEMET 29	5:44.58 K.R.BRUNER-RAINEY 28	19:07.05 AMY POPE 33	2:55.16 LISA FLANAGAN 30
3:07.75 KATHY STEELE 29	5:46.01 GLORIA NEMET 29	19:21.95 LESLIE COOPER 33	3:00.91 TONI ROSS 34
3:10.15 STEPHANIE DENNING 25	6:01.46 DIANNE BATSON 25	19:50.57 MARIE-H. CHARLAP 33	3:05.90 ELAINE PORTER 30
3:11.25 MELISSA KERKER 28	6:03.16 J.L.VAN DER MOLEN 26	20:36.06 LEZLIE GRUENLER 30	3:05.93 LUCILLE GLASSMAN 30
3:14.00 CHRISTINE WINN 27	6:06.13 JENNIFER SAVAGE 28	20:45.52 KATHLEEN WILSON 30	3:10.36 DIANE HOTZ 31
3:16.54 M.MCCONNELL 25	6:07.77 K.J. JOHNSON 28	20:49.02 EILEEN HARTLE 32	3:12.50 NANCY SMITH 33
3:17.09 DEANNA THOMPSON 29	6:13.01 LYNN UNDERWOOD 29	21:03.00 AMY GROSSMAN 32	3:15.00 MARCIA LEWIS 31
50 M. FLY WOMEN 25-29	*****	21:14.02 JEANNIE JOHNSON 32	3:16.91 REBECCA JACKMAN 30
29.13 BETH O'CONNOR 88	50 M. FREE WOMEN 30-34	50 M. BACK WOMEN 30-34	50 M. FLY WOMEN 30-34
30.09 SUDI MILLER 26	26.46 ANNA PETTIS-SCOTT93	32.24 L. HASSELQUIST 89	30.20 S. NEILSON-BELL 88
30.54 DANA DUTCHER 25	26.46 ANNA PETTIS-SCOTT 30	32.83 SHEILA MORTELL 31	31.10 LIZ HOBBS 32
31.62 ELLEN ATKINSON 29	26.88 CAROL CARR 30	32.94 KARLYN PIPES 31	32.08 CATHERINE REDSON 31
31.76 VICKY DAVIDSON 28	28.31 KATHY GARNIER 32	33.24 SARAH GENGLER 30	32.10 ROSALIE CRETIN 30
31.94 JENNIFER SAVAGE 27	28.48 SARAH GENGLER 30	33.62 ANDREA DEVIUONO 31	32.11 GINA AGUILAR 34
31.99 K.R.BRUNER-RAINEY 28	28.73 SHEILA MORTELL 31	34.36 JILL BLACK 30	32.74 ANDREA DEVIUONO 31
32.15 JANICE LESYNA 26	28.79 GINA AGUILAR 34	34.98 DIANE DUNN 32	32.81 JEANNIE JOHNSON 32
32.16 MICHELE HUYETTE 25	28.81 LORI PAYNE 34	36.28 LIZ HOBBS 32	32.84 BARBARA NATHAN 33
32.16 SARAH CLEMMITT 28	28.82 BETH SCHEIMANN 31	36.29 JENNIFER GITTINS 31	33.54 SHARON BEENE 31
32.21 DIANNE WYGAL 27	29.02 DARBY ELLEMAN 33	36.52 KATHY BEHAN 30	33.55 DIANE HOTZ 31
100 M. FLY WOMEN 25-29	29.30 EILEEN HARTLE 32	36.58 GINA AGUILAR 34	33.58 LESLIE COOPER 33
1:06.31 DIANE GRANER 89	100 M. FREE WOMEN 30-34	100 M. BACK WOMEN 30-34	100 M. FLY WOMEN 30-34
1:08.29 C.CHOROMANSKIS 25	57.35 S. NEILSON-BELL 88	1:08.23 KARLYN PIPES 93	1:07.34 TAMMY BENNETT 88
1:09.94 JANICE LESYNA 26	59.00 LORI SCHMIDT 30	1:08.23 KARLYN PIPES 31	1:10.59 SHEILA MORTELL 31
1:10.95 K.R.BRUNER-RAINEY 28	1:01.37 SARAH GENGLER 30	1:08.92 ANDREA DEVIUONO 31	1:12.09 CATHERINE REDSON 31
1:10.96 TRISHA SCHWERZLER 26	1:01.54 LIZ HOBBS 32	1:09.74 SHEILA MORTELL 31	1:12.46 ROSALIE CRETIN 30
1:11.17 DIANNE WYGAL 27	1:01.69 BETH KNIGHT 33	1:10.88 SARAH GENGLER 30	1:12.99 LESLIE COOPER 33
1:11.48 CHERYL KUPAN 29	1:02.88 BETH SCHEIMANN 31	1:12.55 BARBARA MILANESE 31	1:14.97 ANDREA DEVIUONO 31
1:12.06 C LOCKMAN 28	1:03.25 LORI PAYNE 34	1:13.69 AMY NEWELL 30	1:15.43 MARGARET LLOYD 31
1:14.10 MARCIA CLEVELAND 29	1:03.59 KATHY GARNIER 32	1:16.39 CATHERINE REDSON 31	1:16.34 KATIE PITKIN 30
1:14.95 E HALOUZKA 29	1:03.95 EILEEN HARTLE 32	1:18.16 KATHY BEHAN 30	1:16.42 LEZLIE GRUENLER 30
1:15.07 K.J. JOHNSON 28	1:04.24 BARBARA MILANESE 31	1:18.54 MARGARET LLOYD 31	1:16.65 NANCY LEWIS 34
200 M. FLY WOMEN 25-29	1:04.49 GINA AGUILAR 34	1:20.27 KASS OHRINER 32	1:16.79 DIANE HOTZ 31

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SHORT COURSE METERS

200 M. FLY WOMEN 30-34	1:07.19 ANITA CALLAHAN 35	1:20.17 SUSAN BLATTNER 36	1:20.66 IRENA JARVIS 37
2:26.98 NANCY MITCHELL 91	200 M. FREE WOMEN 35-39	200 M. BACK WOMEN 35-39	200 M. FLY WOMEN 35-39
2:31.94 KARLYN PIPES 31	2:12.69 JACKI HIRSTY 89	2:35.03 KAREN FARNSWORTH 91	2:28.96 LAURA VAL 91
2:43.01 CATHERINE REDSON 31	2:22.76 KAREN FARNSWORTH 37	2:39.51 KAREN FARNSWORTH 37	2:30.04 MARIA VELIKONJA 35
2:44.95 BARBARA MILANESE 30	2:25.35 VERONICA HIBBEN 37	2:40.43 LISA AKERMAN 35	2:52.48 JOANNE WAINWRIGHT 38
2:45.91 NANCY LEWIS 34	2:27.11 D.D DOLAN-EVANS 35	2:46.68 CATHY COOLEY 36	2:57.04 JULIE PAQUE 35
2:46.62 TORI FENCIL 30	2:28.40 MARILYN S FINK 38	2:47.20 JEAN RUEFF 35	2:57.81 J D'AMBROSIA 37
3:04.82 PATRICIA ROHNER 33	2:30.71 PAM DRAFTS 36	2:49.14 MARILYN AS FINK 39	2:59.98 JOANNE BOWSER 38
3:05.81 CAROL LEVIN 32	2:31.49 KATHI BULLOCK 39	2:50.72 P BOWDITCH 35	3:03.74 REBECCA PYLE 37
3:06.27 KATHLEEN WILSON 30	2:31.61 JULIE PAQUE 35	2:52.74 JOANNE WAINWRIGHT 38	3:04.65 ANITA CALLAHAN 35
3:10.11 KAREN FORTOUL 32	2:32.57 CATHY NEVILLE 36	2:55.78 JOANNE BOWSER 39	3:04.69 TERI HENDRYX 39
3:10.90 PAM HAEBERLIN 30	2:33.84 LISA AKERMAN 35	2:57.19 JEAN BENSON 36	3:06.36 CATHY NEVILLE 36
100 M. I.M. WOMEN 30-34	2:33.91 MIRA DABROWSKI 35	2:57.74 KATHI BULLOCK 39	3:13.05 IRENA JARVIS 38
1:07.78 S. NEILSON-BELL 88	400 M. FREE WOMEN 35-39	50 M. BRST WOMEN 35-39	100 M. I.M. WOMEN 35-39
1:10.61 KARLYN PIPES 31	4:46.93 MARIA VELIKONJA 93	34.63 LESLIE OSBORNE 89	1:08.15 S. NEILSON-BELL 92
1:13.17 ANDREA DEVIUONO 31	4:46.93 MARIE VELIKONJA 35	37.87 WENDY RYAN 35	1:13.85 S.NEILSON-BELL 37
1:15.22 CATHERINE REDSON 31	5:02.05 KAREN FARNSWORTH 37	38.66 EILEEN WALL 35	1:13.90 CAROLE SHIGAKI 38
1:15.79 JACKIE COLLINS 30	5:09.77 D.D DOLAN-EVANS 35	38.95 CAROLE SHIGAKI 38	1:14.56 MELINDA SCHMITT 35
1:16.69 LISA FLANAGAN 30	5:15.19 JEAN RUEFF 35	39.08 LISA BENNETT 37	1:16.94 CYNTHIA MALTRY 38
1:16.71 GINA AGUILAR 34	5:16.06 WANDA BROWN 36	39.40 PAM DRAFTS 36	1:16.98 WENDY RYAN 35
1:17.82 ELAINE PORTER 30	5:17.37 DIANE DAGOSTA 36	39.44 KATIE MCNAMARA 38	1:17.20 PAM DRAFTS 36
1:17.97 BARBARA NATHAN 33	5:30.77 MO CHAMBERS 35	40.88 SUE HARRINGTON 35	1:17.22 MARILYN AS FINK 39
1:18.00 SHARON BEENE 31	5:33.58 PAM DRAFTS 36	40.92 ERIN CHILDS 35	1:17.37 R.J. SEAMAN 35
1:18.14 TONI ROSS 34	5:35.41 J D'AMBROSIA 37	41.24 MARILYN BRADSHAW 37	1:17.65 EILEEN WALL 35
200 M. I.M. WOMEN 30-34	5:37.10 MARIAH NELSON 36	41.66 CYNTHIA MALTRY 38	1:18.24 KATIE MCNAMARA 38
2:27.11 SANDY NEILSON 87	100 M. FREE WOMEN 35-39	100 M. BRST WOMEN 35-39	200 M. I.M. WOMEN 35-39
2:30.61 KARLYN PIPES 31	9:46.95 LAURA VAL 87	1:16.70 LESLIE OSBORNE 89	2:31.39 S. NEILSON-BELL 92
2:34.59 ANDREA DEVIUONO 31	10:20.71 KAREN FARNSWORTH 37	1:22.38 EILEEN WALL 35	2:36.99 S.NEILSON-BELL 37
2:37.64 SHEILA MORTELL 31	10:32.83 CATHERINE CHAY 37	1:24.35 WENDY RYAN 35	2:41.08 KAREN FARNSWORTH 37
2:39.26 LORI PAYNE 34	10:41.30 WANDA BROWN 36	1:24.92 CAROLE SHIGAKI 38	2:42.31 CAROLE SHIGAKI 38
2:40.08 BARBARA MILANESE 31	10:44.31 JEAN RUEFF 35	1:25.61 R.J. SEAMAN 35	2:44.53 CATHY COOLEY 36
2:40.25 CATHERINE REDSON 31	10:47.20 KATHI BULLOCK 39	1:26.02 KATIE MCNAMARA 38	2:50.28 EILEEN WALL 35
2:44.61 ELAINE PORTER 30	11:48.96 JANET SHERMAN 37	1:26.72 PAM DRAFTS 36	2:51.29 CATHY NEVILLE 36
2:45.96 LISA FLANAGAN 30	11:56.61 SHARON MAYO 36	1:27.20 CATHY COOLEY 36	2:52.37 LISA BENNETT 37
2:46.15 JILL BLACK 30	12:02.84 NAN WITCHER 38	1:28.63 D.D DOLAN-EVANS 35	2:53.19 D.D DOLAN-EVANS 35
2:47.83 TONI ROSS 34	12:19.96 WENDY MEDLEY 39	1:28.72 LISA BENNETT 37	2:53.80 KATIE MCNAMARA 38
400 M. I.M. WOMEN 30-34	12:25.19 LAURA SKOTNICKI 39	1:28.85 MELINDA GREIG 36	2:53.98 KATHI BULLOCK 39
5:13.84 BONNIE RHODES 91	1500 M. FREE WOMEN 35-39	200 M. BRST WOMEN 35-39	400 M. I.M. WOMEN 35-39
5:17.04 KARLYN PIPES 31	18:27.71 LAURA VAL 87	2:50.93 LESLIE OSBORNE 89	5:30.35 KAREN FARNSWORTH 91
5:18.79 ANDREA DEVIUONO 31	19:05.17 SUZANNE HEIM 35	2:55.70 EILEEN WALL 35	5:41.22 KAREN FARNSWORTH 37
5:43.73 LISA FLANAGAN 30	20:13.42 JEAN RUEFF 35	3:04.50 WENDY RYAN 35	5:43.15 SUZANNE HEIM 35
5:45.07 MARGUERITE MEYER 34	21:16.23 DIANE DAGOSTA 36	3:10.50 LISA BENNETT 37	5:55.02 EILEEN WALL 35
5:52.56 ELAINE PORTER 30	23:09.32 WENDY MEDLEY 39	3:13.83 MO CHAMBERS 35	5:55.43 CATHERINE CHAY 37
5:56.83 LUCILLE GLASSMAN 30	23:10.30 LISA WATSON 39	3:15.59 WANDA BROWN 36	6:06.93 KATHI BULLOCK 39
6:00.43 TONI ROSS 34	23:28.29 SHANNON SULLIVAN 39	3:19.71 MEG SMATH 37	6:08.87 MO CHAMBERS 35
6:06.21 TORI FENCIL 30	23:33.63 KATHY HULL 36	3:20.23 JOANNE BOWSER 38	6:09.39 CATHY NEVILLE 36
6:11.75 LISA BOVE 32	23:39.51 NICOLA MERVICH 35	3:21.29 ERIN CHILDS 35	6:14.38 JOANNE BOWSER 39
6:21.01 REBECCA JACKMAN 30	25:02.94 SUSAN MURRAY 37	3:22.66 PAM ALLEN 37	6:18.24 TERI HENDRYX 39
*****	25:45.04 ROSEMARY HUTZLEY 39	3:23.45 JO ANN HARRELSON 37	6:27.13 MARGARET HAIR 37
50 M. FREE WOMEN 35-39	50 M. BACK WOMEN 35-39	50 M. FLY WOMEN 35-39	*****
26.24 S. NEILSON-BELL 93	32.50 LAURA VAL 91	30.05 LAURA VAL 91	50 M. FREE WOMEN 40-44
26.24 S.NEILSON-BELL 37	33.61 S.NEILSON-BELL 37	31.14 S.NEILSON-BELL 37	27.76 LAURA VAL 93
29.06 MELINDA SCHMITT 35	35.65 JOANNE WAINWRIGHT 38	31.16 MARIA VELIKONJA 35	27.76 LAURA VAL 41
29.24 WENDY BOGLIOLI 38	35.70 KAREN FARNSWORTH 37	31.67 WENDY BOGLIOLI 38	29.43 DANIELLE OGIER 41
29.45 PAM DRAFTS 36	35.80 MARILYN S FINK 38	32.78 VERONICA HIBBEN 37	29.60 KARLENE WISE 40
29.55 WENDY RYAN 35	36.61 CYNTHIA MALTRY 38	32.86 MELINDA SCHMITT 35	30.52 SUSAN MARINZEL 40
29.80 VERONICA HIBBEN 37	37.15 NANCY SUDDOVAL 39	33.25 CATHY NEVILLE 36	30.69 R.BRITTINGHAM 42
29.84 MARILYN S FINK 38	37.20 JEAN RUEFF 35	33.55 ROBIN YEAGER 35	31.14 FRAN HARE 43
30.08 R.J. SEAMAN 35	37.63 MORRI SPANG 37	33.85 CYNTHIA MALTRY 38	31.23 REBECCA BENSON 40
30.17 JULIE PAQUE 35	37.91 R.J. SEAMAN 35	34.08 JULIE PAQUE 35	31.53 DEBORAH WALKER 42
30.27 MARILYN BRADSHAW 37	38.05 SUSAN BLATTNER 36	34.17 KELLI DOLE 35	31.92 VALERIE DUNN 43
100 M. FREE WOMEN 35-39	100 M. BACK WOMEN 35-39	100 M. FLY WOMEN 35-39	32.20 KATHRYN WINE 41
59.39 S. NEILSON-BELL 93	1:12.14 LAURA VAL 91	1:07.28 MARIA VELIKONJA 93	100 M. FREE WOMEN 40-44
59.39 S.NEILSON-BELL 37	1:14.01 S.NEILSON-BELL 37	1:07.28 MARIA VELIKONJA 35	1:00.68 LAURA VAL 93
1:03.93 MELINDA SCHMITT 35	1:14.10 LISA AKERMAN 35	1:09.93 S.NEILSON-BELL 37	1:00.68 LAURA VAL 41
1:04.18 PAM DRAFTS 36	1:14.93 CAROLE SHIGAKI 38	1:15.23 CATHY NEVILLE 36	1:05.03 DANIELLE OGIER 41
1:04.27 WENDY BOGLIOLI 38	1:15.36 KAREN FARNSWORTH 37	1:15.41 SUZANNE HEIM 35	1:05.63 KARLENE WISE 40
1:04.68 VERONICA HIBBEN 37	1:17.30 JEAN RUEFF 35	1:15.64 VERONICA HIBBEN 37	1:06.71 C.STONESIFER 41
1:04.95 MARILYN S FINK 38	1:18.16 JOANNE WAINWRIGHT 38	1:17.09 KAREN FARNSWORTH 37	1:07.71 SALLY KARRASCH 40
1:06.42 WENDY RYAN 35	1:18.53 P BOWDITCH 35	1:18.39 JULIE PAQUE 35	1:08.49 BARBARA DUNBAR 44
1:06.66 JULIE PAQUE 35	1:19.06 MARILYN S FINK 38	1:19.47 TERI HENDRYX 39	1:08.87 DENISE EVERITT 40
1:07.14 MARILYN BRADSHAW 37	1:19.93 CATHY NEVILLE 36	1:19.67 ANITA CALLAHAN 35	1:10.26 KATHRYN WINE 41

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SHORT COURSE METERS

1:12.89 BETSY FOSTER 40	1:31.29 H.CARLING-SMITH 42	1:28.86 PATRICIA LIEGEY 40	200 M. FREE WOMEN 45-49
1:13.12 CANDY KANE 41	1:32.37 MAUREEN MARKS 40	1:31.42 LINDA MARIZ 44	2:28.69 ARDETH MUELLER 87
200 M. FREE WOMEN 40-44	200 M. BACK WOMEN 40-44	200 M. FLY WOMEN 40-44	2:33.50 CAROLYN BOAK 48
2:14.32 LAURA VAL 92	2:38.22 MARYANN STEVENS 93	2:29.19 LAURA VAL 93	2:35.14 ANN LYTTLE 45
2:14.55 LAURA VAL 41	2:38.22 MARY ANN STEVENS 40	2:29.19 LAURA VAL 41	2:36.51 KRISTINA KING 46
2:21.77 DANIELLE OGIER 41	2:48.71 JAN PESAVENTO 41	2:39.55 BARBARA DUNBAR 44	2:40.13 LUCY JOHNSON 46
2:27.81 BARBARA DUNBAR 44	2:50.36 KARLENE WISE 40	2:50.46 DENISE EVERITT 40	2:46.12 JUDY REED 48
2:35.55 KATHRYN WINE 41	3:03.77 CANDY KANE 41	3:04.21 R.BRITTINGHAM 42	2:50.81 J.R. MITCHELL 46
2:35.99 JAN PESAVENTO 41	3:11.01 SUSAN BEHLER 42	3:14.58 VIKI ALTOMONTE 42	2:51.54 VICKI BUCCINO 47
2:36.39 FRAN HARE 43	3:14.23 KATHERINE BASS 41	3:44.90 C.STEERMAN 40	2:55.21 DONNA DUNN 45
2:43.95 GAIL GREENWOOD 41	3:14.27 PHYLLIS SPRINGER 44	3:55.64 MARIE VELLUCCI 44	2:57.70 KATHY CONTE 47
2:46.62 CANDY KANE 41	3:15.26 CATHERINE BROOKS 44	4:03.05 BETSY OWENS 42	2:58.58 PAMELA HIMSTREET 49
2:47.96 VIKI ALTOMONTE 42	3:17.56 LINDA MARIZ 44	4:06.64 LAURA MELDRUM 40	400 M. FREE WOMEN 45-49
2:51.30 TERRY BUKSAR 41	3:19.91 H.CARLING-SMITH 42	6:28.93 M CONOMOS 43	5:08.62 ARDETH MUELLER 90
400 M. FREE WOMEN 40-44	50 M. BRST WOMEN 40-44	100 M. I.M. WOMEN 40-44	5:24.09 KRISTINA KING 46
4:50.68 BARBARA DUNBAR 92	37.79 GAYLE BENTY 92	1:11.65 LAURA VAL 92	5:30.71 SUE DILLS 48
4:56.27 DANIELLE OGIER 41	39.18 KRISSY MACCUDY 40	1:14.82 KRISSY MACCUDY 40	5:32.99 ANN LYTTLE 45
4:58.50 BARBARA DUNBAR 44	39.92 JAN PESAVENTO 41	1:15.13 DANIELLE OGIER 41	5:35.89 LUCY JOHNSON 46
5:17.17 DENISE EVERITT 40	40.66 REBECCA BENSON 40	1:15.75 C.STONESIFER 41	5:36.31 ANN SVANSON 47
5:21.39 KARLENE WISE 40	40.69 SUZANNE COOPER 43	1:17.32 DEBORAH WALKER 42	5:57.05 VICKI BUCCINO 47
5:27.26 FRAN HARE 43	41.16 DIANE ROTHENBERG 40	1:17.88 JAN PESAVENTO 41	6:01.31 JUDY GILLIES 45
5:32.10 GAIL GREENWOOD 41	42.35 MEEGAN WILSON 44	1:17.91 BARBARA DUNBAR 44	6:03.90 MARY POHLMANN 48
5:34.73 PAM GEIGER 40	42.75 NANCY MILLER 43	1:20.34 KARLENE WISE 40	6:04.18 KAY TURNER 46
5:41.89 SUZANNE RAGUE 42	42.88 MARY LIOTTA 41	1:22.70 KATHRYN WINE 41	6:11.48 CATHERINE BROOKS 45
5:50.92 VIKI ALTOMONTE 42	43.10 LINDA WILSON 44	1:23.26 BETSY FOSTER 40	800 M. FREE WOMEN 45-49
5:55.50 PHYLLIS SPRINGER 44	43.26 KATHRYN WINE 41	1:24.77 JUDY LEE 43	11:04.43 JANE KATZ 91
800 M. FREE WOMEN 40-44	100 M. BRST WOMEN 40-44	200 M. I.M. WOMEN 40-44	11:15.49 KRISTINA KING 45
10:04.16 BARBARA DUNBAR 91	1:22.19 GAYLE BENTY 92	2:33.89 LAURA VAL 92	11:27.81 ANN LYTTLE 45
10:07.81 BARBARA DUNBAR 44	1:23.34 DEBORAH WALKER 42	2:40.58 DANIELLE OGIER 41	11:45.99 ANN SVANSON 47
10:19.01 DANIELLE OGIER 41	1:27.34 DANIELLE OGIER 40	2:40.68 MARY ANN STEVENS 40	12:17.55 MARY POHLMANN 48
10:45.73 DENISE EVERITT 40	1:28.43 DIANE ROTHENBERG 40	2:46.19 BARBARA DUNBAR 44	12:31.39 VICKI BUCCINO 47
11:13.72 KARLENE WISE 40	1:28.63 C.STONESIFER 41	2:47.44 JAN PESAVENTO 41	12:33.39 DONNA DUNN 45
11:22.18 KATHRYN WINE 41	1:30.87 DENISE EVERITT 40	2:50.93 DENISE EVERITT 40	12:53.85 KATHY CONTE 46
11:31.76 FRAN HARE 43	1:31.24 MEEGAN WILSON 44	2:56.84 KATHRYN WINE 41	13:00.39 EDITH JACOBSEN 46
11:35.76 PAM GEIGER 40	1:32.60 LINDA WILSON 44	3:06.85 CANDY KANE 41	13:27.02 FREDERICKA RAPP 48
11:51.45 SUZANNE RAGUE 42	1:33.78 NANCY MILLER 43	3:12.07 CATHERINE BROOKS 44	13:51.64 LOIS GOODMAN 46
12:35.81 M.MARCANTONIO 43	1:34.79 KATHERINE BASS 41	3:12.45 SUZANNE RAGUE 42	1500 M. FREE WOMEN 45-49
12:42.95 SANDRA CATHEY 44	1:35.61 P. PAGLIARULO 43	3:14.49 SANDRA CATHEY 44	21:16.14 F.WILLIAMSON 93
1500 M. FREE WOMEN 40-44	200 M. BRST WOMEN 40-44	400 M. I.M. WOMEN 40-44	21:16.14 F.WILLIAMSON 46
19:00.81 BARBARA DUNBAR 90	2:54.12 GAYLE BENTY 92	5:32.53 LAURA VAL 92	21:27.36 KRISTINA KING 46
19:14.25 BARBARA DUNBAR 44	3:04.35 DANIELLE OGIER 40	5:44.93 DANIELLE OGIER 41	22:38.69 ANN SVANSON 47
19:27.80 DANIELLE OGIER 41	3:10.61 DIANE ROTHENBERG 40	6:11.29 DENISE EVERITT 40	23:45.32 VICKI BUCCINO 47
20:27.84 DENISE EVERITT 40	3:12.10 CATHY SCHULBACH 40	6:55.71 SANDRA CATHEY 44	23:53.64 KAY TURNER 46
20:54.49 SHERRY KITTRELL 41	3:14.58 DENISE EVERITT 40	7:05.23 MEEGAN WILSON 44	24:21.83 KATHY CONTE 47
20:56.58 CATHY SCHULBACH 40	3:22.41 MEEGAN WILSON 44	7:24.23 C.STEERMAN 40	26:12.57 LOIS GOODMAN 46
20:58.01 GAIL GREENWOOD 41	3:24.05 KATHERINE BASS 41	7:25.37 JESSICA SEATON 40	26:34.97 MARTHA CUTLER 45
21:04.15 KARLENE WISE 40	3:31.45 JESSICA SEATON 40	7:38.30 BETSY OWENS 42	26:57.19 OPAL OLSON 47
21:19.75 FRAN HARE 43	3:32.53 P. PAGLIARULO 43	*****	27:53.57 FREDERICKA RAPP 49
21:45.66 PAM GEIGER 40	3:34.65 SANDRA CATHEY 44	50 M. FREE WOMEN 45-49	50 M. BACK WOMEN 45-49
22:14.03 R.BRITTINGHAM 42	3:41.75 MARILYN CAVALLO 40	30.05 NANCY RIDOUT 89	36.61 MIMI FRANK 93
50 M. BACK WOMEN 40-44	50 M. FLY WOMEN 40-44	30.47 JUDY REED 48	36.61 MIMI FRANK 46
31.55 LAURA VAL 93	30.18 LAURA VAL 92	30.66 SHARON WISE 46	38.73 JEANNIE MITCHELL 47
31.55 LAURA VAL 41	30.42 LAURA VAL 41	30.89 SUSAN ROY 45	40.81 JUDY REED 48
35.42 CAROL SOUSA 40	32.55 C.STONESIFER 41	32.01 ANN LYTTLE 45	41.06 GINGER PIERSON 47
36.15 SALLY KARRASCH 40	33.49 BARBARA DUNBAR 44	32.06 LINDA MC HENRY 46	41.17 B.EDELMAIER 46
36.55 JAN PESAVENTO 41	33.57 KARLENE WISE 40	32.41 KATHRINE CASEY 45	41.59 LINDA MC HENRY 46
37.22 KARLENE WISE 40	34.06 R.BRITTINGHAM 42	32.89 MARSHA HEINIG 46	41.69 DONNA DUNN 45
37.87 SUZANNE COOPER 43	34.18 CAROL SOUSA 40	33.38 JANET PANZA 47	42.49 MARY POHLMANN 48
38.07 DEBORAH WALKER 42	34.58 SUSAN MARINZEL 40	33.61 SANDI ROUSSEAU 45	42.51 JAN LEVINRAD 46
39.31 CANDY KANE 41	35.00 SUZANNE COOPER 43	33.99 JAN LEVINRAD 46	42.80 JANET PANZA 47
39.75 CATHERINE FITCH 41	35.05 JUDY LEE 43	100 M. FREE WOMEN 45-49	100 M. BACK WOMEN 45-49
39.76 KATHRYN WINE 41	35.06 JAN PESAVENTO 41	1:06.64 SHARON WISE 92	1:20.40 JEANNIE MITCHELL 92
100 M. BACK WOMEN 40-44	100 M. FLY WOMEN 40-44	1:07.92 F.WILLIAMSON 46	1:21.76 MIMI FRANK 46
1:10.94 LAURA VAL 92	1:06.86 LAURA VAL 93	1:10.39 ANN LYTTLE 45	1:24.79 JEANNIE MITCHELL 47
1:14.55 MARY ANN STEVENS 40	1:06.86 LAURA VAL 41	1:10.86 JUDY REED 48	1:27.16 MARY POHLMANN 48
1:15.78 JAN PESAVENTO 41	1:12.44 BARBARA DUNBAR 44	1:12.33 LUCY JOHNSON 46	1:27.35 GINGER PIERSON 47
1:19.18 KARLENE WISE 40	1:15.69 DENISE EVERITT 40	1:12.52 KRISTINA KING 46	1:28.59 ANN SVANSON 47
1:19.98 CAROL SOUSA 40	1:16.63 KARLENE WISE 40	1:16.59 ANNE TESCHER 45	1:29.85 B.EDELMAIER 46
1:24.59 CANDY KANE 41	1:16.65 C.STONESIFER 41	1:17.33 J.R. MITCHELL 46	1:31.32 CATHERINE BROOKS 45
1:26.02 KATHRYN WINE 41	1:21.68 R.BRITTINGHAM 42	1:18.57 MARSHA HEINIG 46	1:33.10 JAN LEVINRAD 46
1:27.68 KATHERINE BASS 41	1:22.56 JUDY LEE 43	1:19.73 VICKI BUCCINO 47	1:34.71 KATE SPENCER 46
1:27.93 DENISE EVERITT 40	1:28.54 SUZANNE RAGUE 42	1:20.96 JAN LEVINRAD 46	1:34.76 DONNA DUNN 45

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SHORT COURSE METERS

200 M. BACK WOMEN 45-49	2:37.88 ARDETH MUELLER 87	2:28.85 ARDETH MUELLER 91	2:48.88 ARDETH MUELLER 91
2:56.06 BETTY BENNETT 89	3:07.84 GINGER PIERSON 47	2:40.42 NANCY RIDOUT 51	3:01.81 SARAH BROUGHER 51
3:04.93 MARY POHLMANN 48	3:18.24 SUE DILLS 48	2:49.68 JAYNE LAMBKE 54	3:07.87 JANE KATZ 50
3:05.88 JEANNIE MITCHELL 47	3:30.02 EDITH JACOBSEN 46	2:52.10 JANE KATZ 50	3:17.80 BARBARA FRID 50
3:10.18 GINGER PIERSON 47	3:34.85 KRISTI LOONEY 45	2:55.84 CHARLOTTE JENKINS 54	3:25.75 CEIL BLACKWELL 53
3:11.69 ANN SVANSON 47	3:43.30 MARY POHLMANN 48	2:57.59 PAT WHITE MALEY 50	3:27.81 PAT WHITE MALEY 50
3:14.30 CAROLYN KENT 47	3:54.48 VICKI BUCCINO 47	3:00.71 LOUISE MURRAY 52	3:33.13 PINKY WALKER 50
3:22.28 FREDERICKA RAPP 49	4:27.44 FREDERICKA RAPP 49	3:05.13 SANDRA KINGDON 54	3:36.49 MARYLOU SCHULZ 53
3:22.94 KATE SPENCER 46	4:45.43 MAUREEN LINDSEY 46	3:11.67 MARYLOU SCHULZ 53	3:46.49 SHIRLEY HARDIN 52
3:24.01 EDITH JACOBSEN 46	5:32.10 CAROL HALL 45	3:11.74 NANCY LOWDEN 51	3:53.36 MARILYN RAMEY 53
3:34.54 VICKI BUCCINO 47	100 M. I.M. WOMEN 45-49	3:13.04 FRANCESCA DRUM 51	3:59.99 PATRICIA ARNOLD 54
4:03.07 NELIA TALION 47	1:14.41 ARDETH MUELLER 87	400 M. FREE WOMEN 50-54	50 M. BRST WOMEN 50-54
50 M. BRST WOMEN 45-49	1:17.06 CAROLYN BOAK 48	5:12.43 ARDETH MUELLER 91	40.51 LEILICH/BROMWICH 93
38.46 CAROLYN BOAK 93	1:17.95 SUSAN ROY 45	5:42.29 JANE KATZ 50	40.51 ELAINE BROMWICH 50
38.46 CAROLYN BOAK 48	1:20.45 SHARON WISE 46	5:47.80 BARBARA FRID 50	42.78 JOANN LEILICH 54
38.66 SUSAN ROY 45	1:21.75 KATHRINE CASEY 45	5:59.55 JAYNE LAMBKE 54	43.41 NANCY RIDOUT 51
39.85 GINGER PIERSON 47	1:22.21 GINGER PIERSON 47	6:03.15 PAT WHITE MALEY 50	46.72 SARAH BROUGHER 51
41.14 CHRISTIE SLIMAK 45	1:23.72 F.WILLIAMSON 46	6:12.43 CHARLOTTE JENKINS 54	46.79 ELIZABETH JOHNSON 53
42.34 KATHRINE CASEY 45	1:26.10 CHRISTIE SLIMAK 45	6:22.29 PINKY WALKER 50	47.51 CAROLYN BEHSE 50
43.17 BEA HACKETT 49	1:28.75 SANDI ROUSSEAU 45	6:29.04 SANDRA KINGDON 54	47.78 FRANCESCA DRUM 51
44.72 M PETTIJOHN 46	1:29.73 J.R. MITCHELL 46	6:41.50 NANCY LOWDEN 51	48.84 CHRIS GILLIGAN 50
44.82 CECILY MCNEIL 48	1:30.21 CATHERINE BROOKS 45	6:44.35 MARY ANN MCCLAIN 52	50.25 MARILYN RAMEY 53
45.09 CANDY CHRISTENSON 46	200 M. I.M. WOMEN 45-49	6:48.89 CAROLYN BEHSE 50	51.62 P CRAMER 52
45.67 SANDI ROUSSEAU 45	2:42.88 ARDETH MUELLER 87	800 M. FREE WOMEN 50-54	100 M. BRST WOMEN 50-54
100 M. BRST WOMEN 45-49	3:02.67 GINGER PIERSON 47	11:20.21 NANCY RIDOUT 92	1:28.51 JOANN LEILICH 89
1:23.49 CAROLYN BOAK 92	3:05.97 SUE DILLS 48	11:31.96 JANE KATZ 50	1:32.46 JOANN LEILICH 54
1:23.86 SUSAN ROY 45	3:10.57 ANN SVANSON 47	12:25.45 PAT WHITE MALEY 50	1:40.82 CAROLYN BEHSE 50
1:26.70 GINGER PIERSON 47	3:13.57 B.EDELMAIER 46	12:27.15 JAYNE LAMBKE 54	1:44.69 CHRIS GILLIGAN 50
1:31.81 KATHRINE CASEY 45	3:15.55 MARY POHLMANN 48	12:35.70 ELAINE BROMWICH 50	1:45.89 FRANCESCA DRUM 51
1:32.00 CHRISTIE SLIMAK 45	3:17.40 CATHERINE BROOKS 45	14:02.08 MARY ANN MCCLAIN 52	1:46.21 AMY JOHNSON 51
1:37.98 BEA HACKETT 49	3:23.05 KRISTI LOONEY 45	14:28.93 SANDY ETNYRE 51	1:48.99 ELIZABETH JOHNSON 54
1:38.40 M PETTIJOHN 46	3:23.08 KAY TURNER 46	14:37.13 J DESBARATS 50	1:51.29 MARILYN RAMEY 53
1:41.77 JANET PANZA 47	3:28.89 KATE SPENCER 46	15:15.81 P.STRICKLAND 53	1:52.77 MARY PUDIM 53
1:42.36 DANIELA BARNEA 49	3:29.31 DAWN YOUNG 45	15:18.02 MARILYN RAMEY 53	1:52.79 SANDY ETNYRE 51
1:42.48 JUDY GILLIES 45	400 M. I.M. WOMEN 45-49	15:49.86 JOANN DENNIS 51	1:55.36 SANDY STEER 54
1:45.37 VICKI BUCCINO 47	5:55.35 ARDETH MUELLER 87	1500 M. FREE WOMEN 50-54	200 M. BRST WOMEN 50-54
200 M. BRST WOMEN 45-49	6:07.75 CAROLYN BOAK 48	21:44.35 LAVELLE STAINOFF 87	3:09.57 ELAINE BROMWICH 93
3:04.75 GINGER PIERSON 91	6:27.59 GINGER PIERSON 47	21:47.48 JANE KATZ 50	3:09.57 ELAINE BROMWICH 50
3:07.03 SUSAN ROY 45	6:34.45 LUCY JOHNSON 46	21:56.10 NANCY RIDOUT 51	3:17.81 JOANN LEILICH 54
3:07.61 GINGER PIERSON 47	6:49.33 LINDA MC HENRY 46	23:33.93 PAT WHITE MALEY 50	3:35.89 CAROLYN BEHSE 50
3:09.15 CAROLYN BOAK 48	6:54.46 CAROLYN KENT 47	24:17.71 CHARLOTTE JENKINS 54	3:45.70 FRANCESCA DRUM 51
3:22.96 KATHRINE CASEY 45	6:55.11 MARY POHLMANN 48	25:22.21 SANDRA KINGDON 54	3:46.92 P CRAMER 52
3:36.46 CATHERINE BROOKS 45	7:11.49 PAMELA HIMSTREET 49	25:33.82 RUTH WINN 50	3:47.94 RUTH WINN 50
3:39.34 BEA HACKETT 49	7:17.46 KAY TURNER 46	26:12.03 NANCY LOWDEN 51	3:52.97 AMY JOHNSON 51
3:41.71 JUDY GILLIES 45	7:33.99 DAWN YOUNG 45	27:31.48 ELIZABETH JOHNSON 54	3:54.31 MARILYN RAMEY 53
3:42.33 KATE SPENCER 46	7:39.01 VICKI BUCCINO 47	27:33.33 J.DESBARATS 50	3:54.79 MARY PUDIM 53
3:44.57 HEIDI BOERSTLER 46	*****	28:05.96 P CRAMER 52	4:15.47 SANDY STEER 54
3:58.88 PENNY POTTER 46	50 M. FREE WOMEN 50-54	50 M. BACK WOMEN 50-54	50 M. FLY WOMEN 50-54
50 M. FLY WOMEN 45-49	30.48 NANCY RIDOUT 92	37.59 BETSY JORDAN 91	34.37 SARAH BROUGHER 92
33.17 SHARON WISE 92	31.83 NANCY RIDOUT 51	40.00 BARBARA FRID 50	36.81 NANCY RIDOUT 51
33.71 SHARON WISE 46	34.02 LESLIE SMITH 51	40.32 SARAH BROUGHER 51	39.03 JAYNE LAMBKE 54
34.62 LUCY JOHNSON 46	34.13 JAYNE LAMBKE 54	40.86 JANE KATZ 50	42.10 JANE KATZ 50
35.00 JUDY REED 48	37.82 CEIL BLACKWELL 53	40.98 NANCY RIDOUT 51	44.62 AMY JOHNSON 51
35.97 SANDI ROUSSEAU 45	37.97 LOUISE MURRAY 52	42.66 CHRIS GILLIGAN 50	45.72 MARY PUDIM 53
36.62 GINGER PIERSON 47	38.43 CAROLE BORLAND 50	43.04 PINKY WALKER 50	46.12 SANDY CATTARIN 53
38.01 B.EDELMAIER 46	40.16 PAT WHITE MALEY 50	44.02 LESLIE SMITH 51	46.84 CEIL BLACKWELL 53
38.54 KRISTINA KING 46	40.36 P CRAMER 52	44.40 CEIL BLACKWELL 53	47.39 CAROLE BORLAND 50
40.17 LINDA MC HENRY 46	40.41 MARY PUDIM 53	46.06 REBECCA HERRERO 50	47.78 P CRAMER 52
40.32 JAN LEVINRAD 46	40.82 SUSAN HEWETT 50	49.20 MARILYN RAMEY 53	50.36 PRUDENCE HALL 54
40.44 JANET PANZA 47	100 M. FREE WOMEN 50-54	100 M. BACK WOMEN 50-54	100 M. FLY WOMEN 50-54
100 M. FLY WOMEN 45-49	1:06.41 ARDETH MUELLER 91	1:20.50 ARDETH MUELLER 91	1:12.66 ARDETH MUELLER 91
1:17.96 DIANA TODD 92	1:15.77 JAYNE LAMBKE 54	1:27.72 BARBARA FRID 50	1:33.77 JAYNE LAMBKE 54
1:22.94 LUCY JOHNSON 46	1:18.69 CHARLOTTE JENKINS 54	1:28.63 SARAH BROUGHER 51	1:34.91 JANE KATZ 50
1:25.77 GINGER PIERSON 47	1:22.79 LOUISE MURRAY 52	1:29.87 JANE KATZ 50	1:47.51 SANDY CATTARIN 54
1:26.15 SANDI ROUSSEAU 45	1:24.67 JANE KATZ 50	1:31.97 CHRIS GILLIGAN 50	2:00.17 MARY MEAD 52
1:30.12 CAROLYN KENT 47	1:24.71 SANDRA KINGDON 54	1:36.73 CEIL BLACKWELL 53	2:03.88 PATRICIA ARNOLD 54
1:35.91 KRISTI LOONEY 45	1:24.93 PAT WHITE MALEY 50	1:37.56 PINKY WALKER 50	2:05.30 P CRAMER 52
1:39.41 PAMELA HIMSTREET 49	1:26.66 CEIL BLACKWELL 53	1:44.20 MARYLOU SCHULZ 53	2:16.68 MARGIE HUTINGER 53
1:51.09 VICKI BUCCINO 47	1:27.14 MARY ANN MCCLAIN 51	1:44.69 REBECCA HERRERO 50	2:19.32 KITTY KESSLER 50
1:55.79 KATHERINE WATSON 45	1:27.80 NANCY LOWDEN 51	1:45.74 CAROLE BORLAND 50	200 M. FLY WOMEN 50-54
2:10.70 CAROLE MAWSON 49	1:28.81 FRANCESCA DRUM 51	1:47.11 MARILYN RAMEY 53	3:11.83 SPERRY RADEMAKER 89
200 M. FLY WOMEN 45-49	200 M. FREE WOMEN 50-54	200 M. BACK WOMEN 50-54	3:20.74 ELAINE BROMWICH 50

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4:08.73 ELIZABETH JOHNSON 54	3:22.78 BARBARA BOWER 55	4:02.20 CHAYA AMIAD 55	7:51.04 KAY MARTIN 56
4:13.05 MARYLOU SCHULZ 53	3:27.77 PRUDY HALL 55	4:19.50 SANDRA KREMER 57	100 M. I.M. WOMEN 55-59
4:20.53 INGRID STINE 54	400 M. FREE WOMEN 55-59	50 M. BRST WOMEN 55-59	1:24.19 JAYNE BRUNER 89
5:12.92 MARGIE HUTINGER 53	5:34.32 LAVELLE STOINOFF 89	40.69 JAYNE BRUNER 91	1:27.27 BETSY JORDAN 56
100 M. I.M. WOMEN 50-54	5:57.43 BETSY JORDAN 56	45.49 ANNE MCGUIRE 59	1:34.09 BEVERLY MYERS 57
1:18.05 ARDETH MUELLER 91	5:58.06 SUSAN BRADLEY-COX 56	45.74 MARGIT JEBE 55	1:35.70 ANNE MCGUIRE 59
1:24.67 NANCY RIDOUT 51	6:09.38 RONNIE KAMPHAUSEN 59	46.29 SALLY NEWELL 56	1:37.39 MARGIT JEBE 55
1:30.04 JAYNE LAMBKE 54	6:30.20 ANNE MCGUIRE 59	46.37 BETSY JORDAN 56	1:37.43 ANN KAY 59
1:34.90 CEIL BLACKWELL 53	6:37.04 SUSAN SPRINGER 55	47.03 ALICE JONES 55	1:38.46 DORIS KLITZKE 58
1:35.22 CHRIS GILLIGAM 50	6:44.64 PATRICIA TULLMAN 56	47.28 BEVERLY MYERS 57	1:42.23 ALICE JONES 55
1:39.44 ELIZABETH JOHNSON 53	7:01.61 BARBARA BOWER 55	48.37 CAROL MACPHERSON 55	1:45.68 SUSAN SPRINGER 55
1:40.31 SANDY ETNYRE 51	7:09.96 SYLVIA GLENN 55	48.82 ANN JOHNSEN 57	1:46.20 SYLVIA GLENN 55
1:41.34 P CRAMER 52	7:16.09 DAWN STROUPE 55	48.94 B.CULBERTSON 56	1:47.68 JEAN STERLING 56
1:41.68 AMY JOHNSON 51	7:23.77 ADRIENNE PIPES 59	49.61 ANN CHAMP 58	200 M. I.M. WOMEN 55-59
1:42.56 REBECCA HERRERO 50	800 M. FREE WOMEN 55-59	100 M. BRST WOMEN 55-59	3:05.53 BETSY JORDAN 92
1:44.13 MARY PUDIM 53	11:29.99 LAVELLE STOINOFF 89	1:30.31 JAYNE BRUNER 91	3:13.03 BETSY JORDAN 56
200 M. I.M. WOMEN 50-54	12:08.00 BETSY JORDAN 56	1:38.75 MARGIT JEBE 55	3:22.31 SUSAN BRADLEY-COX 56
3:04.26 NANCY RIDOUT 92	12:31.39 SUSAN BRADLEY-COX 56	1:40.17 ANNE MCGUIRE 59	3:24.09 RONI KAMPHAUSEN 59
3:08.22 JANE KATZ 50	13:24.03 BARBARA ZAREMSKI 56	1:42.66 BEVERLY MYERS 57	3:30.85 ANNE MCGUIRE 59
3:10.74 ELAINE BROMWICH 50	13:51.88 PATRICIA TULLMAN 56	1:43.32 ALICE JONES 55	3:46.54 ANN JOHNSEN 57
3:31.53 PAT WHITE MALEY 50	14:34.27 SYLVIA GLENN 55	1:43.43 SALLY NEWELL 56	3:47.93 DOT WERRY 57
3:34.59 CEIL BLACKWELL 53	14:42.22 DONNA MONROE 59	1:44.42 BETSY JORDAN 56	3:49.22 DAWN STROUPE 55
3:36.31 SANDY ETNYRE 51	14:42.26 PRUDY HALL 55	1:47.53 ANN JOHNSEN 57	3:51.59 JANET MOELLER 58
3:36.51 MARYLOU SCHULZ 53	15:05.38 MARIANNE BROGAN 58	1:47.86 DAWN STROUPE 55	3:54.08 JEAN STERLING 56
3:41.82 LOUISE MURRAY 52	15:14.27 BARBARA BOWER 55	1:47.94 BARBARA ZAREMSKI 56	3:54.13 SYLVIA GLENN 55
3:45.76 ELIZABETH JOHNSON 54	15:32.81 B.J. TUCKER 58	1:48.81 JEAN STERLING 56	400 M. I.M. WOMEN 55-59
3:55.20 P CRAMER 52	1500 M. FREE WOMEN 55-59	200 M. BRST WOMEN 55-59	6:39.90 BETSY JORDAN 92
4:00.93 PATRICIA ARNOLD 54	21:35.84 LAVELLE STOINOFF 89	3:23.08 JAYNE BRUNER 91	6:57.33 BETSY JORDAN 56
400 M. I.M. WOMEN 50-54	23:20.91 SUSAN BRADLEY-COX 56	3:33.12 ANNE MCGUIRE 59	7:17.80 RONNIE KAMPHAUSEN 59
5:56.24 ARDETH MUELLER 91	23:46.51 BETSY JORDAN 56	3:41.79 ALICE JONES 55	7:18.36 ANNE MCGUIRE 59
6:36.91 JANE KATZ 50	26:02.91 ANNE MCGUIRE 59	3:45.05 BETSY JORDAN 56	8:26.59 JANET MOELLER 58
7:36.18 MARYLOU SCHULZ 53	26:35.53 SUSAN SPRINGER 55	3:46.75 SALLY NEWELL 56	8:37.39 MARIANNE BROGAN 58
7:55.18 ELIZABETH JOHNSON 54	26:43.57 SYLVIA GLENN 55	3:50.19 ANN JOHNSEN 57	11:42.68 TRICH HUNTER 59
7:57.82 LOUISE MURRAY 52	27:43.26 PRUDY HALL 55	3:51.15 DAWN STROUPE 55	13:05.33 KAY MARTIN 56
8:20.95 INGRID STINE 54	28:26.24 MARIANNE BROGAN 58	3:51.35 J.G. PIPER 56	*****
8:22.78 PATRICIA ARNOLD 54	28:26.52 BARBARA BOWER 55	4:01.25 SANDRA KREMER 57	50 M. FREE WOMEN 60-64
9:42.53 MARGIE HUTINGER 53	29:31.43 JANET MOELLER 58	4:11.08 DORA COFFELT 56	34.87 MARGARET TIMMINS 93
*****	30:10.67 NANCY WAITE 59	4:14.64 PRUDY HALL 55	34.87 MARGARET TIMMINS 63
50 M. FREE WOMEN 55-59	50 M. BACK WOMEN 55-59	50 M. FLY WOMEN 55-59	35.17 ROXANNE MOTTER 61
31.83 JAYNE BRUNER 89	37.92 BETSY JORDAN 92	37.50 BETSY JORDAN 92	35.40 LAVELLE STOINOFF 60
35.34 BETSY JORDAN 56	38.16 BETSY JORDAN 56	39.27 BETSY JORDAN 56	38.19 BARBARA CALLISON 60
36.08 CAROL MACPHERSON 55	43.29 ANN KAY 59	40.54 RONI KAMPHAUSEN 59	40.01 MARYANN STONE 60
36.33 SUSAN BRADLEY-COX 56	43.88 BEVERLY MYERS 58	42.69 BEVERLY MYERS 58	40.24 GAY COLLINS 63
36.69 ANN KAY 59	44.63 ANN CHAMP 58	42.92 ANN KAY 59	41.22 JACQUELINE DUNLOP 62
38.06 ANN MCDONNELL 55	45.73 DORIS KLITZKE 58	43.25 DORIS KLITZKE 58	41.29 CAROL FERGUSON 62
38.07 BEVERLY MYERS 58	47.39 SCOTTIE HOLLIDAY 59	43.63 ANNE MCGUIRE 59	41.59 NANCY MACBETH 64
38.30 SALLY NEWELL 56	47.80 SUSAN SPRINGER 55	44.03 SUSAN BRADLEY-COX 56	41.81 MALCHIA OLSHAN 62
38.35 NANCY WAITE 59	48.40 MARY SPENCER 57	46.45 MARGIT JEBE 55	100 M. FREE WOMEN 60-64
38.98 DORIS KLITZKE 58	49.11 ANN JOHNSEN 57	48.12 ALICE JONES 55	1:16.63 LAVELLE STOINOFF 93
39.59 SUSAN SPRINGER 55	49.80 CHAYA AMIAD 55	48.91 ANN MCDONNELL 55	1:16.63 LAVELLE STOINOFF 60
100 M. FREE WOMEN 55-59	100 M. BACK WOMEN 55-59	100 M. FLY WOMEN 55-59	1:17.85 ROXANNE MOTTER 61
1:11.63 JAYNE BRUNER 89	1:21.90 BETSY JORDAN 92	1:27.95 BETSY JORDAN 92	1:20.99 MARGARET TIMMINS 63
1:19.32 BETSY JORDAN 56	1:24.70 BETSY JORDAN 56	1:28.34 BETSY JORDAN 56	1:24.12 DENA MANN 61
1:26.00 ALICE JONES 55	1:33.20 ANN CHAMP 58	1:39.00 ANNE MCGUIRE 59	1:27.30 MARYANN STONE 60
1:27.03 BARBARA ZAREMSKI 56	1:42.45 SUSAN SPRINGER 55	1:51.86 DOT WERRY 57	1:30.36 ANN PISCIOтта 62
1:27.97 SUSAN SPRINGER 55	1:48.00 SYLVIA GLENN 55	1:53.30 ADRIENNE PIPES 59	1:31.40 CAROL FERGUSON 62
1:28.23 SALLY NEWELL 56	1:49.95 MARY SPENCER 57	1:59.09 SUSAN SPRINGER 55	1:31.98 BARBARA CALLISON 60
1:31.25 SYLVIA GLENN 55	1:51.27 BARBARA BOWER 55	2:00.80 JANET MOELLER 58	1:32.84 MALCHIA OLSHAN 62
1:31.30 BARBARA BOWER 55	1:57.78 DOT WERRY 57	2:02.40 DONNA MONROE 59	1:34.07 GAY COLLINS 63
1:31.60 PRUDY HALL 55	1:59.74 B.CULBERTSON 56	2:12.38 CAROLYN BALDWIN 58	200 M. FREE WOMEN 60-64
1:31.88 NANCY WAITE 59	2:00.23 CHAYA AMIAD 55	2:16.41 MARIANNE BROGAN 58	2:39.92 LAVELLE STOINOFF 93
1:33.69 DOT WERRY 57	2:01.35 NANCY WAITE 58	2:36.12 JOYCE VOIT 59	2:39.92 LAVELLE STOINOFF 60
200 M. FREE WOMEN 55-59	200 M. BACK WOMEN 55-59	200 M. FLY WOMEN 55-59	2:56.34 ROXANNE MOTTER 61
2:40.27 LAVELLE STOINOFF 89	3:00.66 BETSY JORDAN 92	3:20.43 GAIL ROPER 86	3:03.23 DENA MANN 61
2:50.55 BETSY JORDAN 56	3:03.59 BETSY JORDAN 56	3:32.33 BETSY JORDAN 56	3:11.64 ANN PISCIOтта 62
2:51.44 RONI KAMPHAUSEN 59	3:20.17 ANN CHAMP 58	3:33.78 ANNE MCGUIRE 59	3:20.42 MALCHIA OLSHAN 62
2:52.69 SUSAN BRADLEY-COX 56	3:23.75 RONI KAMPHAUSEN 59	3:57.22 RONNIE KAMPHAUSEN 59	3:20.61 BARBARA CALLISON 60
3:07.10 ANNE MCGUIRE 59	3:35.51 CAROL MACPHERSON 55	4:26.73 MARY CLARE HANS 56	3:25.19 MARYANN STONE 60
3:07.84 ANN MCDONNELL 55	3:40.47 ANN MCDONNELL 55	4:38.26 MARIANNE BROGAN 58	3:27.82 DONNA MONROE 60
3:11.31 SUSAN SPRINGER 55	3:46.75 SYLVIA GLENN 55	5:45.97 JOYCE VOIT 59	3:33.37 JOY ROSS 60
3:17.71 ALICE JONES 55	3:54.64 SCOTTIE HOLLIDAY 59	6:00.43 NANCY WAITE 59	3:37.50 GAY COLLINS 63
3:19.92 SYLVIA GLENN 55	3:56.58 BARBARA BOWER 55	6:16.48 TRICH HUNTER 59	400 M. FREE WOMEN 60-64

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5:38.06 LAVELLE STOINOFF 93	45.39 CAROL TAYLOR 89	1:38.31 NANCY MACBETH 64	6:47.05 PATRICIA DOTSON 66
5:38.06 LAVELLE STOINOFF 60	46.85 ANN PISCIOTTA 62	1:47.98 CAROL FERGUSON 62	6:51.63 FLORENCE CARR 68
6:44.33 ANN PISCIOTTA 62	47.21 CAROL FERGUSON 62	1:51.46 MARYANN STONE 60	7:09.62 EDIE GRUENDER 65
6:53.15 MALCHIA OLSHAN 62	47.53 LILLY KRON 61	1:52.35 LILLY KRON 61	7:16.44 GRACE ALTUS 69
6:53.87 MARYANN STONE 60	47.77 CAROL TAYLOR 64	1:54.74 PHYLLIS WILSON 61	7:19.82 ANITA HAZEN 65
7:09.37 DONNA MONROE 60	52.36 NANCY MACBETH 64	1:55.95 JOAN CAMPBELL 63	7:52.77 NAN BLACKLEDGE 68
7:15.13 BARBARA OWENS 64	52.63 JACQUELINE DUNLOP 62	1:57.36 MAXINE NELLEN 61	8:19.81 HEDY ESPOSITO 65
7:40.14 ANN SHENCK DALLAM 63	53.08 MAXINE NELLEN 60	200 M. I.M. WOMEN 60-64	800 M. FREE WOMEN 65-69
7:51.38 DORTHEA SCRAK 62	57.69 ANN SHENCK DALLAM 63	3:14.28 CLARA WALKER 90	12:35.26 CLARA WALKER 92
7:55.49 DOLLY HINCKLEY 63	58.84 MALCHIA OLSHAN 62	3:30.96 ANN PISCIOTTA 62	13:12.30 JUNE KRAUSER 67
8:08.88 RUTH FARNHAM 63	1:01.68 BETTY KAKOS 62	3:36.64 BARBARA CALLISON 60	13:53.71 FLORENCE CARR 68
800 M. FREE WOMEN 60-64	100 M. BRST WOMEN 60-64	3:37.28 NANCY MACBETH 64	14:27.64 BETTY RUSS 66
11:30.55 LAVELLE STOINOFF 93	1:37.78 ANN PISCIOTTA 92	3:49.74 CAROL FERGUSON 62	14:43.85 EDIE GRUENDER 65
11:30.55 LAVELLE STOINOFF 60	1:41.46 ANN PISCIOTTA 62	3:52.44 CAROL TAYLOR 64	15:00.80 GRACE ALTUS 69
14:05.82 MALCHIA OLSHAN 62	1:44.96 LILLY KRON 61	3:53.97 JOY ROSS 60	15:40.79 FAY BECK 67
15:00.71 NANCY DURSTEIN 64	1:46.52 CAROL FERGUSON 62	3:55.04 MALCHIA OLSHAN 62	16:59.57 MATHILDE HUBER 65
16:59.96 RUTH FARNHAM 63	1:50.58 CAROL TAYLOR 64	4:00.53 JACQUELINE DUNLOP 62	17:25.41 NANCY REED 66
17:38.52 FLAVIA MC BRIDE 60	1:57.12 BARBARA OWENS 64	4:05.10 NANCY DURSTEIN 64	17:42.21 CLARA SOTAK 69
18:21.36 MARY WILLIAMS 61	2:02.30 JOY ROSS 60	4:07.02 JOAN CAMPBELL 63	20:17.19 JEANE GRUENDER 65
19:13.24 ELFRIEDE LEHTO 60	2:02.32 MALCHIA OLSHAN 62	400 M. I.M. WOMEN 60-64	1500 M. FREE WOMEN 65-69
20:02.32 BETTINA BUTTS-HE 63	2:03.56 MARYANN STONE 60	6:58.97 CLARA WALKER 91	23:38.44 CLARA WALKER 92
20:08.27 V.ENGSTROM-HEG 63	2:05.58 JOAN CAMPBELL 63	7:32.00 ANN PISCIOTTA 62	23:58.25 CLARA WALKER 66
22:12.26 MARY BOAZ 64	2:08.96 STEFANENA KYSOR 63	7:43.06 LILLY KRON 61	25:02.50 JUNE KRAUSER 67
1500 M. FREE WOMEN 60-64	200 M. BRST WOMEN 60-64	7:44.63 NANCY MACBETH 64	27:15.74 FLORENCE CARR 68
23:28.15 CLARA WALKER 90	3:36.01 ANN PISCIOTTA 91	8:11.81 MARIA YUNGEL 61	27:32.73 BETTY RUSS 66
26:08.91 MALCHIA OLSHAN 62	3:36.20 ANN PISCIOTTA 62	8:12.92 MALCHIA OLSHAN 62	27:43.82 GRACE ALTUS 69
26:24.48 MARGARET TIMMINS 63	3:36.73 LILLY KRON 61	8:16.67 BARBARA OWENS 64	28:45.09 ANITA HAZEN 65
27:40.06 MARIA YUNGEL 61	3:51.09 CAROL FERGUSON 62	8:22.30 DONNA MONROE 60	29:40.21 FAY BECK 67
28:49.85 RUTH AARON 64	4:06.56 CAROL TAYLOR 64	8:49.97 RUTH AARON 64	30:34.27 NAN BLACKLEDGE 68
31:08.41 DORTHEA SCRAK 63	4:23.39 MALCHIA OLSHAN 62	9:05.99 MARY JANE MULLINS 62	31:13.33 R.I TURCOTTE 65
32:04.76 RUTH FARNHAM 63	4:30.14 JOAN CAMPBELL 63	*****	32:20.17 NANCY REED 66
35:27.65 MARY WILLIAMS 61	4:40.81 NANCY DURSTEIN 64	50 M. FREE WOMEN 65-69	50 M. BACK WOMEN 65-69
35:34.36 ELFRIEDE LEHTO 60	4:46.81 ALYCE VOGEL 61	35.76 CLARA WALKER 91	40.48 DORIS STEADMAN 89
38:48.20 MAXINE BLECHMAN 64	5:02.03 ELFRIEDE LEHTO 60	37.80 CYNTHIA BRUCE 65	43.34 CYNTHIA BRUCE 65
42:58.59 MARY BOAZ 64	5:22.71 ANNE MARSTON 63	38.55 FLORENCE CARR 68	47.12 DELLA SEHORN 66
50 M. BACK WOMEN 60-64	50 M. FLY WOMEN 60-64	38.74 JEAN TROY 66	49.82 FLORENCE CARR 68
39.60 CLARA WALKER 89	39.64 ANNE ADAMS 89	40.78 JUNE KRAUSER 67	50.22 JUNE KRAUSER 67
41.77 ROXANNE MOTTER 61	40.68 ROXANNE MOTTER 61	41.17 JEAN SCHNORBUS 67	50.78 M.J.AMSBARY 68
45.08 MARGARET TIMMINS 63	43.39 BARBARA CALLISON 60	42.53 ELLA CARMICHAEL 69	51.15 LOIS NOCHMAN 68
47.63 NANCY MACBETH 64	45.51 NANCY MACBETH 64	42.83 S.HASSELBACHER 67	53.14 JEAN SCHNORBUS 67
47.93 DENA MANN 61	47.58 ANN PISCIOTTA 62	42.89 KATIE BURRELL 65	53.36 NANCY SCHOEPPERLE 68
48.63 ANN PISCIOTTA 62	49.95 GAY COLLINS 63	43.42 EDIE GRUENDER 65	53.50 R.I TURCOTTE 66
49.95 PHYLLIS WILSON 60	50.93 MALCHIA OLSHAN 62	43.56 NANCY REED 66	54.48 JUDITH YOUNG 67
50.27 GAY COLLINS 63	51.84 CAROL TAYLOR 64	100 M. FREE WOMEN 65-69	100 M. BACK WOMEN 65-69
51.20 MARY JANE MULLINS 62	52.98 PHYLLIS WILSON 61	1:20.80 CLARA WALKER 91	1:30.41 DORIS STEADMAN 89
54.31 CAROL FERGUSON 62	53.15 CAROL FERGUSON 62	1:25.81 FLORENCE CARR 68	1:37.08 CYNTHIA BRUCE 65
55.62 MARIAN BRENNER 62	54.20 BARBARA OWENS 64	1:25.97 JEAN TROY 66	1:44.27 DELLA SEHORN 66
100 M. BACK WOMEN 60-64	100 M. FLY WOMEN 60-64	1:26.32 CYNTHIA BRUCE 65	1:47.99 JUNE KRAUSER 67
1:29.13 CLARA WALKER 89	1:36.95 PAT DOTSON 87	1:27.06 JUNE KRAUSER 67	1:50.99 BETTY RUSS 66
1:34.10 ROXANNE MOTTER 61	1:44.46 BARBARA CALLISON 60	1:31.27 CLARA WALKER 66	1:51.52 NANCY REED 66
1:39.25 DENA MANN 61	1:46.60 ANN PISCIOTTA 62	1:36.37 JEAN SCHNORBUS 67	1:52.71 M. AMSBARY 67
1:44.92 NANCY MACBETH 64	1:47.44 NANCY MACBETH 64	1:38.65 GRACE ALTUS 69	1:55.95 LOIS NOCHMAN 68
1:45.48 ANN PISCIOTTA 62	1:57.49 MALCHIA OLSHAN 62	1:40.92 R.I TURCOTTE 66	1:56.26 NAN BLACKLEDGE 68
1:48.89 MARY JANE MULLINS 62	1:59.87 DONNA MONROE 60	1:41.65 ELLA CARMICHAEL 69	1:56.29 ALICIA COLEMAN 67
1:49.37 PHYLLIS WILSON 60	2:02.88 MARY JANE MULLINS 62	1:45.30 JUDITH YOUNG 67	1:56.75 PEGGY SANBORN 66
1:51.25 JACQUELINE DUNLOP 62	2:03.11 GAY COLLINS 63	200 M. FREE WOMEN 65-69	200 M. BACK WOMEN 65-69
1:51.52 GAY COLLINS 63	2:17.19 JOAN CAMPBELL 63	3:03.63 PETEY SMITH 91	3:15.72 DORIS STEADMAN 89
1:53.09 STEFANENA KYSOR 63	2:22.07 ANGIE SINACORE 63	3:06.61 JEAN TROY 66	3:45.98 DELLA SEHORN 66
1:54.15 JOY ROSS 60	200 M. FLY WOMEN 60-64	3:07.61 JUNE KRAUSER 67	3:47.42 JUNE KRAUSER 67
200 M. BACK WOMEN 60-64	3:32.29 JUNE KRAUSER 90	3:09.16 CLARA WALKER 66	3:54.02 CYNTHIA BRUCE 65
3:16.14 DORIS STEADMAN 88	3:50.14 ANN PISCIOTTA 62	3:10.86 FLORENCE CARR 68	4:01.22 M.J.AMSBARY 68
3:23.53 ROXANNE MOTTER 61	4:05.04 LILLY KRON 61	3:34.09 GRACE ALTUS 69	4:03.05 PEGGY SANBORN 66
3:48.96 MARY JANE MULLINS 62	4:17.33 MALCHIA OLSHAN 62	3:35.24 CYNTHIA BRUCE 65	4:05.42 FLORENCE CARR 68
3:49.65 JOY ROSS 60	4:21.57 BARBARA OWENS 64	3:36.03 ELLA CARMICHAEL 69	4:05.83 ALICIA COLEMAN 68
3:53.67 ANN PISCIOTTA 62	4:22.37 NANCY DURSTEIN 64	3:40.21 KATIE BURRELL 65	4:08.77 LOIS NOCHMAN 68
3:58.03 STEFANENA KYSOR 63	4:22.38 DONNA MONROE 60	3:42.00 R.I TURCOTTE 66	4:13.03 NANCY SCHOEPPERLE 68
4:04.05 GAY COLLINS 63	4:35.74 RUTH HOSKINSON 63	3:53.00 HEDY ESPOSITO 65	4:13.69 ESTELLE SHUER 66
4:08.49 NANCY DURSTEIN 64	100 M. I.M. WOMEN 60-64	400 M. FREE WOMEN 65-69	50 M. BRST WOMEN 65-69
4:16.21 JOAN CAMPBELL 63	1:27.50 CLARA WALKER 89	6:13.42 CLARA WALKER 92	47.39 BETTY CHRISTIAN 89
4:24.87 LOUISE KUTSCHER 63	1:33.68 ROXANNE MOTTER 61	6:23.47 JUNE KRAUSER 67	50.62 M.J.AMSBARY 68
4:28.22 SHIRLEY BAIRD 62	1:37.36 ANN PISCIOTTA 62	6:24.49 CLARA WALKER 66	51.03 ALICIA COLEMAN 67
50 M. BRST WOMEN 60-64	1:38.27 BARBARA CALLISON 60	6:34.43 JEAN TROY 66	51.41 JUNE KRAUSER 67

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SHORT COURSE METERS

52.30 FLORENCE CARR	68	2:02.90 HEDY ESPOSITO	65	8:51.15 BETTY KENDALL	73	2:01.99 PATSY WEISS	70
56.50 LOIS NOCHMAN	68	200 M. I.M. WOMEN 65-69		9:08.95 MARY WIXTED	71	2:05.75 BETTY CUMMISKY	70
57.15 HEDY ESPOSITO	65	3:18.77 CLARA WALKER	91	800 M. FREE WOMEN 70-74		2:05.89 JAE HOWELL	70
58.15 S.HASSELBACHER	67	3:33.10 JUNE KRAUSER	67	14:29.66 MARGERY MEYER	92	2:11.76 MARGERY MEYER	71
58.68 NAN BLACKLEDGE	68	3:45.41 DELLA SEHORN	66	16:31.10 SUSANNA MARVEL	73	2:15.32 JEAN BEERS	71
1:00.61 GLADYS OLSEN	67	3:46.19 JEAN TROY	66	16:35.68 JEAN BEERS	71	2:20.44 AGOTA FROHS	72
1:01.72 JUDY KELLY	68	3:52.63 BETTY RUSS	66	16:41.85 JEANNE MERRYMAN	70	2:21.68 MARY CULHANE	72
100 M. BRST WOMEN 65-69		3:55.38 FLORENCE CARR	68	17:09.02 PAULINE STANGEL	71	2:28.24 EDITH GLUSAC	74
1:46.82 REGAN KENNER	90	3:57.80 EDIE GRUENDER	65	18:00.72 BETTY KENDALL	73	200 M. BRST WOMEN 70-74	
1:50.37 JUNE KRAUSER	67	4:19.66 BETTY DUNN	68	18:00.73 JUNE REYNOLDS	71	4:05.63 BETTY CHRISTIAN	93
1:54.23 FLORENCE CARR	68	4:25.91 GLADYS OLSEN	67	18:12.25 ZADA TAFT	74	4:05.63 BETTY CHRISTIAN	71
1:54.95 M.J.AMSBARY	68	4:27.14 HEDY ESPOSITO	65	18:53.25 MARY WIXTED	71	4:05.74 REGAN KENNER	70
1:56.27 ALICIA COLEMAN	67	4:28.55 R.I TURCOTTE	65	19:45.95 A.HOTTINGER	71	4:30.09 JAE HOWELL	71
2:04.31 LOIS NOCHMAN	68	400 M. I.M. WOMEN 65-69		21:28.54 KATE BRAZIL	73	4:46.31 JEAN BEERS	71
2:06.15 GLADYS OLSEN	67	7:19.42 JUNE KRAUSER	91	1500 M. FREE WOMEN 70-74		4:50.55 JUNE REYNOLDS	71
2:07.52 HEDY ESPOSITO	65	7:19.63 JUNE KRAUSER	67	28:28.86 MARGERY MEYER	93	5:22.53 GERTRUDE BOX	71
2:14.78 ESTELLE SHUER	66	7:53.26 JEAN TROY	66	28:28.86 MARGERY MEYER	71	6:03.91 LIVIA WALKER	71
2:17.49 NANCY REED	66	8:07.98 BETTY RUSS	66	31:37.45 JEANNE MERRYMAN	70	50 M. FLY WOMEN 70-74	
2:28.24 JUDY ANN KELLY	68	8:20.30 FLORENCE CARR	68	32:56.57 MARJORIE NEWMAN	70	51.96 GERTRUD ZINT	89
200 M. BRST WOMEN 65-69		8:32.27 EDIE GRUENDER	65	36:59.73 ZADA TAFT	74	54.26 DIANA SILVA	71
3:48.71 REGAN KENNER	90	8:45.51 ALICIA COLEMAN	67	50 M. BACK WOMEN 70-74		59.94 JAE HOWELL	71
3:56.68 JUNE KRAUSER	67	8:51.09 MARIAN WOLLE	65	47.04 MARGERY MEYER	93	1:00.23 SYLVIA HILL	72
4:07.33 FLORENCE CARR	68	9:15.21 BETTY DUNN	68	47.04 MARGERY MEYER	71	1:00.83 JUNE REYNOLDS	71
4:14.61 ALICIA COLEMAN	68	9:24.66 GLADYS OLSEN	67	50.27 REGAN KENNER	70	1:01.45 SUE MCGAUGHEY	71
4:18.74 M.J.AMSBARY	68	9:43.79 GRACE ALTS	69	52.04 PATSY WEISS	70	1:01.74 H.HUGGINS	71
4:20.07 GLADYS OLSEN	67	*****		52.36 DIANA SILVA	71	1:02.98 JEAN BEERS	71
4:41.41 MARIAN WOLLE	65	50 M. FREE WOMEN 70-74		53.93 H.HUGGINS	71	1:03.28 ZADA TAFT	74
4:54.07 MATHILDE HUBER	65	39.13 DOROTHY DONNELLY	92	54.36 NANCY PHILLIPS	72	1:09.17 ROSEMARY KARIKER	74
5:07.56 JEANE GRUENDER	65	40.06 DOROTHY DONNELLY	71	56.72 IRENE SANDAHL	71	1:10.41 WINNIE WALTER	72
5:39.62 BARBARA EBERLE	65	40.63 MARGERY MEYER	71	57.27 RUTH BAAR	70	100 M. FLY WOMEN 70-74	
6:04.43 M.R. NEWMAN	69	41.77 RUTH BAAR	70	57.59 ANNALOU CARRIER	73	2:04.25 GERTRUD ZINT	88
50 M. FLY WOMEN 65-69		42.44 SUSANNA MARVEL	73	57.85 SUSANNA MARVEL	73	2:07.00 DIANA SILVA	71
43.93 FLORENCE CARR	90	43.49 DIANA SILVA	71	100 M. BACK WOMEN 70-74		2:13.05 JAE HOWELL	71
44.60 JUNE KRAUSER	67	44.85 JEAN BEERS	71	1:45.58 REGAN KENNER	93	2:14.89 JUNE REYNOLDS	71
45.78 FLORENCE CARR	68	46.75 JUNE REYNOLDS	71	1:45.58 REGAN KENNER	70	2:17.94 IRENE SANDAHL	71
47.04 DELLA SEHORN	66	46.91 NANCY PHILLIPS	72	1:47.31 PATSY WEISS	70	2:38.99 ROSEMARY KARIKER	74
48.95 EDIE GRUENDER	65	47.16 MAURINE KORNFELD	72	1:47.51 MARGERY MEYER	71	2:42.54 ZADA TAFT	74
50.06 BETTY RUSS	66	48.77 SYLVIA HILL	72	1:50.84 BETTY CHRISTIAN	71	2:50.81 MARJORIE NEWMAN	70
52.13 BETTY DUNN	68	100 M. FREE WOMEN 70-74		1:57.78 DIANA SILVA	71	4:44.10 MARION CHADWICK	71
54.49 ALICIA COLEMAN	67	1:29.76 MARGERY MEYER	92	1:58.89 H.HUGGINS	71	200 M. FLY WOMEN 70-74	
57.65 S.HASSELBACHER	67	1:33.19 DOROTHY DONNELLY	71	2:00.66 NANCY PHILLIPS	71	4:36.96 MAXINE MERLINO	86
59.54 GRACE ALTS	69	1:35.76 RUTH BAAR	70	2:05.90 ANNALOU CARRIER	73	4:47.58 JAE HOWELL	71
1:05.87 LAINAY DOOMAN	67	1:39.10 SUSANNA MARVEL	73	2:10.52 JAE HOWELL	70	4:51.66 JUNE REYNOLDS	71
100 M. FLY WOMEN 65-69		1:42.72 DIANA SILVA	71	2:12.58 MARY CULHANE	72	5:54.14 ROSEMARY KARIKER	74
1:38.32 JUNE KRAUSER	93	1:47.56 JEAN BEERS	71	200 M. BACK WOMEN 70-74		100 M. I.M. WOMEN 70-74	
1:38.32 JUNE KRAUSER	67	1:49.16 DORIS PETERS	70	3:52.20 REGAN KENNER	93	1:50.32 GERTRUD ZINT	88
1:44.03 DELLA SEHORN	66	1:49.18 SYLVIA HILL	72	3:52.20 REGAN KENNER	70	1:52.07 MARGERY MEYER	71
1:54.32 BETTY RUSS	66	1:50.24 NANCY PHILLIPS	72	3:56.14 MARGERY MEYER	71	1:54.00 PATSY WEISS	70
1:55.34 FLORENCE CARR	68	1:51.41 PAULINE STANGEL	71	4:18.08 NANCY PHILLIPS	72	1:59.69 DIANA SILVA	71
2:01.12 EDIE GRUENDER	65	1:53.43 H.HUGGINS	71	4:32.34 H.HUGGINS	71	2:02.99 JAE HOWELL	70
2:02.31 ALICIA COLEMAN	68	200 M. FREE WOMEN 70-74		4:41.72 MAURINE KORNFELD	72	2:04.07 NANCY PHILLIPS	72
2:02.67 BETTY DUNN	68	3:18.51 MARGERY MEYER	92	4:50.35 M.STEINBISS	73	2:05.61 JEAN BEERS	71
2:23.09 GLADYS OLSEN	67	3:25.38 DOROTHY DONNELLY	71	4:51.01 ANNALOU CARRIER	73	2:05.62 JUNE REYNOLDS	71
200 M. FLY WOMEN 65-69		3:34.00 BETTY CHRISTIAN	71	4:51.32 MAXINE CARLSON	72	2:09.39 H.HUGGINS	71
3:36.03 JUNE KRAUSER	91	3:45.57 SUSANNA MARVEL	73	5:03.42 ZADA TAFT	74	2:10.77 DORIS PETERS	70
3:36.36 JUNE KRAUSER	67	3:49.78 JEAN BEERS	71	5:38.41 RUTH WUNDERLICH	74	2:14.08 PAULINE STANGEL	71
4:07.31 BETTY RUSS	66	3:49.89 SYLVIA HILL	72	50 M. BRST WOMEN 70-74		200 M. I.M. WOMEN 70-74	
4:09.94 FLORENCE CARR	68	3:51.23 NANCY PHILLIPS	72	50.95 GERTRUD ZINT	87	4:01.01 DOROTHY DONNELLY	92
4:14.62 EDIE GRUENDER	65	4:05.45 MAURINE KORNFELD	71	51.24 BETTY CHRISTIAN	71	4:09.13 DOROTHY DONNELLY	71
4:51.16 GLADYS OLSEN	67	4:05.73 BETTY KENDALL	73	51.30 REGAN KENNER	70	4:28.34 JAE HOWELL	70
6:12.82 M.R. NEWMAN	69	4:08.46 H.HUGGINS	71	55.98 JAE HOWELL	71	4:33.77 JUNE REYNOLDS	71
100 M. I.M. WOMEN 65-69		4:31.65 A.HOTTINGER	71	58.30 DOROTHY DONNELLY	71	4:34.08 H.HUGGINS	71
1:37.84 FLORENCE CARR	90	400 M. FREE WOMEN 70-74		1:01.57 JEAN BEERS	71	4:47.27 JEAN BEERS	71
1:39.75 JUNE KRAUSER	67	6:54.54 MARGERY MEYER	92	1:03.14 EDITH GLUSAC	74	5:16.84 ZADA TAFT	74
1:39.75 FLORENCE CARR	68	7:52.66 DIANA SILVA	71	1:03.39 MARY CULHANE	72	5:29.40 AGOTA FROHS	72
1:40.54 CYNTHIA BRUCE	65	7:58.54 SYLVIA HILL	72	1:03.78 PAULINE STANGEL	71	5:35.73 WINNIE WALTER	72
1:42.25 DELLA SEHORN	66	8:03.54 SUSANNA MARVEL	73	1:05.20 AGOTA FROHS	72	5:45.83 GERTRUDE BOX	71
1:53.44 ALICIA COLEMAN	68	8:08.18 MAURINE KORNFELD	71	1:05.62 PAT POIRE	71	5:48.36 RUTH WUNDERLICH	74
1:59.15 S.HASSELBACHER	67	8:15.29 JEAN BEERS	71	100 M. BRST WOMEN 70-74		400 M. I.M. WOMEN 70-74	
1:59.28 ELLA CARMICHAEL	69	8:18.91 AGNES ZYDINSKY	71	1:52.44 REGAN KENNER	93	8:34.79 RITA SIMONTON	88
2:01.44 BETTY DUNN	68	8:21.00 NANCY PHILLIPS	72	1:52.44 REGAN KENNER	70	9:02.42 DIANA SILVA	71
2:02.03 M.J.AMSBARY	68	8:22.39 REGAN KENNER	70	1:53.62 BETTY CHRISTIAN	71	9:10.29 JAE HOWELL	71

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SHORT COURSE METERS

9:32.95 JANE DOUGHERTY 72	57.35 LOUISE DONOVAN 75	1:09.11 JEAN DURSTON 79	35:07.91 MAXINE MERLINO 92
9:55.01 JUNE REYNOLDS 71	58.28 GERTRUD ZINT 76	1:16.01 PAT MATTHIESEN 77	NO SWIMMERS
11:43.33 ROSEMARY KARIKER 74	1:01.73 KAY SCHIMPF 76	1:20.59 RUTH WUNDERLICH 75	50 M. BACK WOMEN 80-84
*****	1:03.59 MARGARET NAGLE 76	1:20.72 NANCY CLARK 79	59.47 MAXINE MERLINO 92
50 M. FREE WOMEN 75-79	1:04.72 NANCY CLARK 79	1:25.03 ROBERTA SUGDEN 75	1:09.24 MARION MUELLER 81
42.50 LOUISE DONOVAN 93	1:05.50 MARY LATHRAM 77	1:47.22 BUZ CATLIN 79	1:10.88 ELSA MATTILA 82
42.50 LOUISE DONOVAN 75	1:08.89 PAT MATTHIESEN 76	2:01.47 ANNE LUFT 76	1:12.94 WIN KENNEDY 80
48.06 ANNE WALKER 77	1:08.99 F.E. CICHANSKI 76	100 M. FLY WOMEN 75-79	1:13.61 MADELEINE MILLER 83
48.70 GERTRUD ZINT 76	100 M. BACK WOMEN 75-79	2:12.17 MAXINE MERLINO 88	1:14.91 EDITH HENDRY 82
49.95 KAY SCHIMPF 76	1:53.00 ANNE WALKER 91	2:18.50 GERTRUD ZINT 76	1:35.37 SALLY RYCKMAN 80
50.38 MARGARET NAGLE 76	1:53.69 ANNE WALKER 77	2:27.15 KAY SCHIMPF 76	1:53.16 ELIZABETH DZIADUS 83
50.45 Y FRISCHHERTZ 76	2:01.01 MARIE WICKLUN 79	2:31.80 JEAN DURSTON 79	100 M. BACK WOMEN 80-84
50.57 NANCY CLARK 79	2:01.52 Y FRISCHHERTZ 76	3:18.80 HILDA BUEL 79	2:15.14 MAXINE MERLINO 92
54.54 V.R. SULLIVAN 76	2:10.90 GERTRUD ZINT 76	3:42.18 HELENA HOFFMAN 77	2:06.12 ESTHER GRAFRATH 80NV
59.94 PAT MATTHIESEN 77	2:14.69 KAY SCHIMPF 76	200 M. FLY WOMEN 75-79	2:21.92 MAXINE MERLINO 81
1:02.42 MARY LATHRAM 77	2:18.64 SALLY JOY 76	4:48.50 MAXINE MERLINO 88	2:26.46 MARION MUELLER 81
100 M. FREE WOMEN 75-79	2:26.78 MARY LATHRAM 77	5:22.24 KAY SCHIMPF 76	2:48.28 EDITH HENDRY 82
1:38.34 RITA SIMONTON 93	2:30.99 JEAN DURSTON 79	6:13.71 PAT MATTHIESEN 77	3:25.91 GERALDINE TURNER 82
1:38.34 RITA SIMONTON 75	2:36.48 LOIS ELLERT 78	7:54.47 HELENA HOFFMAN 77	200 M. BACK WOMEN 80-84
1:38.85 LOUISE DONOVAN 75	2:44.76 GENEVA KAHRIS 79	100 M. I.M. WOMEN 75-79	4:38.53 MAXINE MERLINO 92
1:47.38 ANNE WALKER 77	200 M. BACK WOMEN 75-79	1:58.06 GERTRUD ZINT 93	5:14.17 MARION MUELLER 81
1:47.93 GERTRUD ZINT 76	4:01.89 MARIE WICKLUN 89	1:58.06 GERTRUD ZINT 76	5:14.83 ELSA MATTILA 82
1:48.79 NANCY CLARK 79	4:06.23 ANNE WALKER 77	2:10.40 KAY SCHIMPF 76	5:51.25 MADELEINE MILLER 83
1:52.39 Y FRISCHHERTZ 76	4:11.84 Y FRISCHHERTZ 76	2:15.13 ANNE WALKER 77	6:13.82 EDITH HENDRY 82
1:55.28 KAY SCHIMPF 76	4:16.74 MARIE WICKLUN 79	2:16.60 SALLY JOY 76	50 M. BRST WOMEN 80-84
1:55.81 MARIE WICKLUN 79	4:41.99 KAY SCHIMPF 76	2:17.41 Y FRISCHHERTZ 76	1:05.64 MAXINE MERLINO 92
1:55.81 MARGARET NAGLE 76	4:55.66 SALLY JOY 76	2:27.73 NANCY CLARK 79	1:05.99 HELMI MEISE 81
2:02.74 SALLY JOY 76	5:07.23 MARY LATHRAM 77	2:33.58 PAT MATTHIESEN 77	1:13.61 MAXINE MERLINO 81
200 M. FREE WOMEN 75-79	5:18.74 LOIS ELLERT 78	2:36.60 HELEN ROUMASSET 78	1:14.81 ELSA MATTILA 82
3:33.90 RITA SIMONTON 93	5:33.72 FRANCES BELL 75	2:46.59 V.R. SULLIVAN 76	1:29.41 ANNE WILDER 80
3:33.90 RITA SIMONTON 75	5:43.77 GENEVA KAHRIS 79	2:47.12 RUTH WUNDERLICH 75	1:49.73 SALLY RYCKMAN 80
3:44.95 LOUISE DONOVAN 75	6:22.25 HILDA BUEL 79	200 M. I.M. WOMEN 75-79	100 M. BRST WOMEN 80-84
4:02.93 Y FRISCHHERTZ 76	50 M. BRST WOMEN 75-79	4:17.89 MAXINE MERLINO 88	2:21.80 MAXINE MERLINO 92
4:08.55 KAY SCHIMPF 76	53.94 GERTRUD ZINT 93	4:27.25 GERTRUD ZINT 76	2:31.53 MAXINE MERLINO 81
4:09.82 MARIE WICKLUN 79	53.94 GERTRUD ZINT 76	4:47.43 KAY SCHIMPF 76	2:57.49 MADELEINE MILLER 83
4:13.21 NANCY CLARK 79	1:01.94 SALLY JOY 76	5:08.03 JEAN DURSTON 79	200 M. BRST WOMEN 80-84
4:15.13 ANNE WALKER 77	1:05.16 KAY SCHIMPF 76	5:37.75 SALLY JOY 76	5:00.63 MAXINE MERLINO 92
4:40.92 PAT MATTHIESEN 77	1:14.56 IRENE ADAMS 78	5:49.68 RUTH WUNDERLICH 75	6:43.11 MADELEINE MILLER 83
5:10.61 MARY LATHRAM 77	1:16.75 Y FRISCHHERTZ 76	6:38.17 HELENA HOFFMAN 77	7:00.76 ANNE WILDER 80
5:11.40 LOIS ELLERT 78	1:19.75 BETH HANKS 76	7:04.37 FRANCES BELL 75	50 M. FLY WOMEN 80-84
400 M. FREE WOMEN 75-79	1:20.75 BUZ CATLIN 79	400 M. I.M. WOMEN 75-79	1:05.04 MAXINE MERLINO 92
7:23.29 RITA SIMONTON 93	1:23.77 HELEN ROUMASSET 78	9:07.66 MAXINE MERLINO 88	1:18.95 ANNE WILDER 80
7:23.29 RITA SIMONTON 75	1:30.36 ROBERTA SUGDEN 75	9:41.36 GERTRUD ZINT 76	1:22.02 ELSA MATTILA 82
7:47.94 LOUISE DONOVAN 75	1:34.37 ANNE LUFT 76	10:04.81 KAY SCHIMPF 76	1:23.34 WIN KENNEDY 80
8:24.60 EDNA LAFLIN 75	100 M. BRST WOMEN 75-79	12:10.66 RUTH WUNDERLICH 75	100 M. FLY WOMEN 80-84
8:33.49 KAY SCHIMPF 76	2:02.29 GERTRUD ZINT 93	13:11.67 HILDA BUEL 75	2:30.84 MAXINE MERLINO 92
8:41.84 Y FRISCHHERTZ 76	2:02.29 GERTRUD ZINT 76	14:02.90 HELENA HOFFMAN 77	3:02.95 ELSA MATTILA 82
8:59.74 MARIE WICKLUN 79	2:16.83 KAY SCHIMPF 76	*****	3:05.52 ANNE WILDER 80
9:03.34 GERTRUD ZINT 76	2:22.28 SALLY JOY 76	50 M. FREE WOMEN 80-84	200 M. FLY WOMEN 80-84
9:51.01 HELEN ROUMASSET 78	2:39.80 HELEN ROUMASSET 78	48.76 JULIA DOLCE 89	5:22.65 MAXINE MERLINO 92
9:54.01 PAT MATTHIESEN 76	2:40.28 JEAN DURSTON 79	1:06.06 EDITH HENDRY 82	6:43.80 ELSA MATTILA 82
10:50.13 GENEVA KAHRIS 79	2:45.84 HILDA BUEL 79	1:06.47 HELMI MEISE 81	6:48.58 ANNE WILDER 80
800 M. FREE WOMEN 75-79	2:47.12 Y FRISCHHERTZ 76	1:08.16 MADELEINE MILLER 83	100 M. I.M. WOMEN 80-84
15:28.60 RITA SIMONTON 93	2:47.60 PAT MATTHIESEN 76	1:11.48 PEARL SOBEL 81	2:07.52 MAXINE MERLINO 92
15:28.60 RITA SIMONTON 75	2:57.52 BUZ CATLIN 79	100 M. FREE WOMEN 80-84	3:07.33 MADELEINE MILLER 83
18:25.66 KAY SCHIMPF 76	3:15.87 BETH HANKS 77	1:54.23 JULIA DOLCE 89	4:14.29 GERALDINE TURNER 82
18:40.65 JEAN DURSTON 79	200 M. BRST WOMEN 75-79	2:02.41 MAXINE MERLINO 81	200 M. I.M. WOMEN 80-84
19:31.09 EDNA LAFLIN 75	4:32.71 GERTRUD ZINT 93	2:32.18 MADELEINE MILLER 83	4:45.93 MAXINE MERLINO 92
21:58.02 MARY LATHRAM 77	4:32.71 GERTRUD ZINT 76	2:46.29 EDITH HENDRY 82	NO SWIMMERS
22:16.47 RUTH WUNDERLICH 75	4:39.95 RITA SIMONTON 75	200 M. FREE WOMEN 80-84	400 M. I.M. WOMEN 80-84
26:06.32 ROSE STEWARD 75	4:53.66 KAY SCHIMPF 76	4:17.73 JULIA DOLCE 89	9:50.43 MAXINE MERLINO 92
1500 M. FREE WOMEN 75-79	5:08.01 SALLY JOY 76	4:32.37 MAXINE MERLINO 81	NO SWIMMERS
29:30.30 RITA SIMONTON 93	5:50.36 HELEN ROUMASSET 78	5:54.81 SALLY RYCKMAN 80	*****
29:30.20 RITA SIMONTON 75NV	6:00.79 HILDA BUEL 79	400 M. FREE WOMEN 80-84	50 M. FREE WOMEN 85-89
34:39.75 KAY SCHIMPF 76	6:11.23 PAT MATTHIESEN 76	8:48.24 MAXINE MERLINO 92	1:03.78 MARIAN MCKECHNIE 89
37:43.55 EDNA LAFLIN 75	6:56.22 HELENA HOFFMAN 77	12:12.96 MARION MUELLER 81	NO SWIMMERS
42:27.84 RUTH WUNDERLICH 75	8:47.85 MARY SIEBOLD 77	12:48.00 SALLY RYCKMAN 80	100 M. FREE WOMEN 85-89
43:02.83 GENEVA KAHRIS 79	50 M. FLY WOMEN 75-79	15:44.43 GERALDINE TURNER 82	3:01.15 ANNA BAUSCHER 89
50 M. BACK WOMEN 75-79	56.53 GERTRUD ZINT 93	800 M. FREE WOMEN 80-84	NO SWIMMERS
52.11 MARIE WICKLUN 89	56.53 GERTRUD ZINT 76	18:14.52 MAXINE MERLINO 92	200 M. FREE WOMEN 85-89
52.13 ANNE WALKER 77	1:00.68 KAY SCHIMPF 76	NO SWIMMERS	5:33.83 MARIAN MCKECHNIE 89
56.62 Y FRISCHHERTZ 76	1:06.60 SALLY JOY 76	1500 M. FREE WOMEN 80-84	NO SWIMMERS

TOP TEN

SHORT COURSE METERS

800 M. FREE WOMEN 85-89	54.51 BRIAN MEADE	22	1:09.70 BENJAMIN ROYE	22	1:06.58 JIM ANDEL	23
24:05.34 MARIAN MCKECHNIE 89	55.43 DAN KUTLER	23	1:10.27 JEFF RHYNE	23	1:07.93 NOAH BIRMEIN	19
NO SWIMMERS	55.70 BRENDAN HALFFMAN	24	1:12.70 DEREK LEE	24	200 M. FLY M E N 19-24	
50 M. BACK WOMEN 85-89	56.38 STEVE ROBLING	23	1:13.86 KELLY MEARS	22	2:07.64 JEFF POPPELL	93
1:13.57 MARIAN MCKECHNIE 89	56.48 KEN NICKEL	20	1:15.16 MATT DUKE	22	2:07.64 JEFF POPPELL	23
1:31.84 M.B. MCKECHNIE 89	56.82 DAVIE MATTHEW	24	1:16.65 HARLAN LAWSON	22	2:15.52 SERGEY MARINIUK	24
100 M. BACK WOMEN 85-89	56.88 TYRANO DIAZ	19	200 M. BACK M E N 19-24		2:21.15 TYRANO DIAZ	19
2:52.17 ANNA BAUSCHER 89	57.13 JOHN SPEER	23	2:08.81 SERGEY MARINIUK	93	2:24.91 GEORGE FASTRICH	23
NO SWIMMERS	200 M. FREE M E N 19-24		2:08.81 SERGEY MARINIUK	24	2:46.28 MATT TRENER	22
200 M. BACK WOMEN 85-89	1:56.27 JEFF POPPELL	93	2:10.62 JEFF POPPELL	23	2:53.25 ROBERT VALENTIN	23
6:00.16 MARIAN MCKECHNIE 89	1:56.27 JEFF POPPELL	23	2:27.72 MICHAEL BELL	24	100 M. I.M. M E N 19-24	
NO SWIMMERS	2:03.40 BRIAN MEADE	22	2:38.35 MICHAEL MAHONEY	24	1:00.93 GREG MACKEM	91
50 M. BRST WOMEN 85-89	2:07.48 BRENDAN HALFFMAN	24	2:39.74 MATT DUKE	22	1:02.08 DAN KUTLER	23
1:37.05 KATHERINE PELTON 90	2:08.32 WADE RIDDICK	24	3:02.34 JORGE SELF	21	1:06.31 BRIAN CRILLY	24
NO SWIMMERS	2:10.11 JIM ANDEL	23	50 M. BRST M E N 19-24		1:07.25 NEIL LANCE	22
100 M. BRST WOMEN 85-89	2:10.41 NEIL LANCE	22	31.68 MIKE EWING	91	1:08.98 HARLAN LAWSON	22
3:09.62 KATHERINE PELTON 90	2:13.02 DAVIE MATTHEW	24	32.88 KEN NICKEL	20	1:09.20 ANDY FARRELL	23
NO SWIMMERS	2:13.34 BRIAN CRILLY	24	32.97 ANDREW GEISZLER	24	1:09.45 ROBERT HARMS	23
50 M. FLY WOMEN 85-89	2:14.10 JEFF RHYNE	23	33.25 TYRANO DIAZ	19	1:09.46 ANDREW GEISZLER	24
1:24.53 KATHERINE PELTON 90	2:15.03 KIRK OLDHAM	23	33.97 RANDY ROTH	24	1:10.67 NOAH BIRMEIN	19
NO SWIMMERS	400 M. FREE M E N 19-24		34.00 NEIL LANCE	22	1:10.67 KEN STUMP	24
100 M. FLY WOMEN 85-89	4:05.72 SERGEY MARINIUK	93	34.53 WADE RIDDICK	23	1:11.20 DAKE GONZALEZ	22
3:29.58 KATHERINE PELTON 90	4:05.72 SERGEY MARINIUK	24	34.56 PETER MULLEN	24	200 M. I.M. M E N 19-24	
NO SWIMMERS	4:08.28 JEFF POPPELL	23	35.39 ZAC MONTGOMERY	22	2:08.88 SERGEY MARINIUK	93
200 M. FLY WOMEN 85-89	4:37.42 BRENDAN HALFFMAN	24	35.56 KEN STUMP	24	2:08.88 SERGEY MARINIUK	24
7:15.07 KATHERINE PELTON 90	4:37.95 WADE RIDDICK	24	37.10 ALAN LEVY	24	2:11.25 JEFF POPPELL	23
NO SWIMMERS	4:43.76 KEN KOPPENHAVER	24	100 M. BRST M E N 19-24		2:21.38 GEORGE FASTRICH	23
100 M. I.M. WOMEN 85-89	4:48.04 ANDREW GEISZLER	24	1:06.74 SERGEY MARINIUK	93	2:33.12 ALEXANDER HALL	22
3:00.23 KATHERINE PELTON 90	4:53.13 ROBERT VALENTIN	23	1:06.74 SERGEY MARINIUK	24	2:36.78 MICHAEL MAHONEY	24
NO SWIMMERS	4:54.01 DANA DELSIGNORE	24	1:12.37 ANDREW GEISZLER	24	2:37.53 DAKE GONZALEZ	22
200 M. I.M. WOMEN 85-89	4:55.04 MICHAEL BRADY	24	1:12.43 NEIL LANCE	22	2:39.70 MATT TRENER	22
9:49.36 ANNA BAUSCHER 89	4:57.04 JOHN SPEER	23	1:13.38 HARLAN LAWSON	22	2:59.93 ROBERT LOWE	22
NO SWIMMERS	800 M. FREE M E N 19-24		1:16.91 ALEXANDER HALL	22	3:00.75 ALAN LEVY	24
400 M. I.M. WOMEN 85-89	8:39.19 JEFF POPPELL	93	1:17.95 TROY REYNOLDS	22	3:17.76 DENNIS CALLAHAN	21
15:34.06 KATHERINE PELTON 91	8:39.19 JEFF POPPELL	23	1:18.12 KEN STUMP	24	400 M. I.M. M E N 19-24	
NO SWIMMERS	9:37.77 WADE RIDDICK	24	1:19.50 RANDY ROTH	24	4:28.54 SERGEY MARINIUK	93
*****	9:58.37 ROBERT VALENTIN	23	1:19.70 TODD HARAMINAC	24	4:28.54 SERGEY MARINIUK	24
50 M. FREE WOMEN 90-94	10:01.60 KEN KOPPENHAVER	24	1:20.72 GIOVANNI ROXAS	22	4:44.27 JEFF POPPELL	23
1:36.77 ANNA BAUSCHER 93	10:03.80 DANA DELSIGNORE	24	200 M. BRST M E N 19-24		5:10.44 GEORGE FASTRICH	23
1:36.77 ANNA BAUSCHER 91	10:15.64 JOHN SPEER	23	2:25.50 SERGEY MARINIUK	93	5:17.11 TYRANO DIAZ	19
100 M. FREE WOMEN 90-94	10:41.13 ROSS REICHARD	22	2:25.50 SERGEY MARINIUK	24	5:24.92 ALEXANDER HALL	22
3:24.13 ANNA BAUSCHER 93	14:14.66 BYRON DERRINGER	22	2:40.10 ANDREW GEISZLER	24	5:28.68 ROBERT VALENTIN	23
3:24.13 ANNA BAUSCHER 91	1500 M. FREE M E N 19-24		2:41.00 EUGENE ATANASIO	22	5:37.79 JASON BROWN	23
200 M. FREE WOMEN 90-94	16:15.25 JEFF POPPELL	93	2:41.64 GEORGE FASTRICH	23	5:38.78 BRIAN CRILLY	24
7:01.11 ANNA BAUSCHER 93	16:15.25 JEFF POPPELL	23	2:47.18 ALEXANDER HALL	22	5:39.45 MICHAEL MAHONEY	24
7:01.11 ANNA BAUSCHER 91	18:36.77 BRENDAN HALFFMAN	24	2:47.87 ROBERT VALENTIN	23	5:49.87 MATT TRENER	22
400 M. FREE WOMEN 90-94	18:51.34 ROBERT VALENTIN	23	2:53.78 HARLAN LAWSON	22	*****	
14:16.35 ANNA BAUSCHER 93	19:00.78 WADE RIDDICK	23	3:01.33 MICHAEL MAHONEY	24	50 M. FREE M E N 25-29	
14:16.35 ANNA BAUSCHER 91	19:17.45 DANA DELSIGNORE	24	3:05.20 CHRIS SLAYMAN	22	22.48 ROBERT PEEL	93
800 M. FREE WOMEN 90-94	19:44.81 EUGENE ATANASIO	22	3:23.39 HAMID SABET	19	22.48 ROBERT PEEL	28
28:45.45 ANNA BAUSCHER 93	20:34.04 JORGE SELF	21	50 M. FLY M E N 19-24		23.41 TROY DALBEY	25
28:45.45 ANNA BAUSCHER 91	20:34.64 MATT TRENER	22	26.94 JEFFREY RODDIN	92	23.52 MOOK RHODENBAUGH	28
50 M. FLY WOMEN 90-94	20:40.69 ROSS REICHARD	22	27.00 TODD TRAPPE	24	23.76 WINSTON RITCHEY	25
NO RECORD	21:12.50 CHRISTOPHER SELBY	19	27.11 BRIAN MEADE	22	23.94 JOHN MIRANDA	28
4:45.13 ANNA BAUSCHER 90NV	50 M. BACK M E N 19-24		27.11 JEFFREY RODDIN	24	23.95 ERIK OSBORN	25
*****	29.62 KIRK CLEAR	91	27.25 TYRANO DIAZ	19	24.74 PAUL ROBINSON	26
50 M. FREE M E N 19-24	29.69 TROY REYNOLDS	22	27.44 KEN NICKEL	20	24.89 BERT BERGEN	26
24.54 TODD TRAPPE 93	31.00 ANDY FARRELL	23	27.78 TROY REYNOLDS	22	24.91 NEIL HARPER	28
24.54 TODD TRAPPE 24	31.28 MICHAEL BELL	24	27.86 KEITH SHIELDS	23	25.04 JACK MCKEAN	29
24.57 BRIAN MEADE 22	32.18 MICHAEL MAHONEY	24	27.94 BENJAMIN ROYE	22	100 M. FREE M E N 25-29	
24.78 JEFFREY RODDIN 24	32.43 TAZ GREINER	21	28.46 RANDY ROTH	24	52.29 MARK NOETZEL	90
24.79 TYRANO DIAZ 19	32.60 BRENDAN HALFFMAN	24	28.49 KEVIN WOOD	23	52.55 TROY DALBEY	25
25.13 BRENDAN HALFFMAN 24	33.22 JEFF RHYNE	23	100 M. FLY M E N 19-24		52.76 WINSTON RITCHEY	25
25.15 STEVE ROBLING 23	33.94 SANDY SACHS	23	57.54 JEFF POPPELL	93	53.09 PAUL ROBINSON	26
25.19 ALBERT VAN DIJK 22	34.05 MICHAEL BRADY	24	57.54 JEFF POPPELL	23	54.75 NEIL HARPER	28
25.26 ANDREW FERRELL 23	34.34 TYRANO DIAZ	19	59.21 TYRANO DIAZ	19	54.93 BERT BERGEN	26
25.35 TROY REYNOLDS 22	100 M. BACK M E N 19-24		59.46 JEFFREY RODDIN	24	55.39 MATTHEW HUNT	25
25.39 KEN NICKEL 20	1:00.67 JEFF POPPELL	93	1:01.94 KEITH SHIELDS	23	55.58 ALAN GREENWOOD	27
100 M. FREE M E N 19-24	1:00.67 JEFF POPPELL	23	1:03.31 BRIAN CRILLY	24	55.75 ROBERT O'DELL	27
53.12 JEFF POPPELL 93	1:01.94 JEFFREY RODDIN	24	1:03.47 EUGENE ATANASIO	22	56.09 DANIEL HAYES	29
53.12 JEFF POPPELL 23	1:06.52 ANDY FARRELL	23	1:03.62 GEORGE FASTRICH	23	56.81 DAVID VAUGHN	28
54.22 TODD TRAPPE 24	1:08.81 MICHAEL BELL	24	1:05.80 KEVIN WOOD	23	200 M. FREE M E N 25-29	

TOP TEN

SHORT COURSE METERS

1:54.00 BRAD WELLS 89	2:09.12 BRAD WELLS 89	2:10.91 TOM O'BRIEN 88	200 M. FREE M E N 30-34
1:57.15 PAUL ROBINSON 26	2:10.95 PAUL ROBINSON 26	2:20.21 RANDALL EICKHOFF 28	1:53.66 DAN STEPHENSON 89
1:59.30 WINSTON RITCHEY 25	2:21.40 MATHEW ROTH 26	2:25.66 BRIAN ELLIS 25	2:00.12 CRIS WILLIAMS 32
2:06.25 DAVID VAUGHN 28	2:23.37 DAVID KASTIGAR 29	2:27.05 MICHAEL COLLINS 27	2:00.53 BRUCE HAYES 30
2:06.78 BERT BERGEN 26	2:25.37 MICHAEL GIVOT 26	2:29.55 PATRICK BRUNDAGE 26	2:02.79 ALAN VOISARD 33
2:07.21 ALAN GREENWOOD 27	2:27.21 PATRICK BRUNDAGE 26	2:33.35 RONALD MURLIN 26	2:03.28 JOHN BLACK 30
2:08.03 KIRK CORSELLO 26	2:28.36 DAVID NICHOLS 27	2:34.06 IZHAR HARPAZ 25	2:03.76 MICHAEL MOORE 30
2:08.25 MARK MACDONALD 25	2:29.00 MICHAEL CAYWOOD 29	2:35.64 PAUL SHERMAN 29	2:05.24 GORDON ANDREWS 33
2:08.37 PATRICK BRUNDAGE 26	2:29.22 JAMES RHYNE 28	2:37.04 DAVID KASTIGAR 29	2:05.30 PAUL O'BRIEN 30
2:08.56 MARTY SARUSSI 28	2:29.67 GLEN STEWART 29	2:49.61 ERIC NEILSEN 27	2:07.10 MICKAEL ORN 31
2:10.23 IZHAR HARPAZ 25	2:37.07 JIM IACOMETTI 29	3:00.08 TERENCE YOUNG 28	2:08.23 TONY MINNA 30
400 M. FREE M E N 25-29	50 M. BRST M E N 25-29	100 M. I. M. M E N 25-29	2:08.24 AL JAEGRS 31
4:07.81 ROB MACKLE 92	29.08 JOHN WALDMAN 89	58.82 JAMES LILLEY 89	400 M. FREE M E N 30-34
4:10.40 PAUL ROBINSON 26	29.77 JAMES PARRACK 26	1:02.20 NEIL HARPER 28	4:13.61 DAN GOERKE 89
4:22.14 MICHAEL COLLINS 27	31.13 DEWEY WYATT 29	1:03.96 WINSTON RITCHEY 25	4:18.64 GERRY RODRIGUES 31
4:23.19 WINSTON RITCHEY 25	31.48 DANIEL TOM 29	1:04.10 BORIS TALAN 25	4:21.63 CRIS WILLIAMS 32
4:30.62 RANDALL EICKHOFF 28	31.65 ROBERT FRITSCHER 25	1:04.21 MATTHEW HUNT 28	4:27.97 CAMERON REID 33
4:35.22 DAVID VAUGHN 28	31.85 JASON TIMMONS 26	1:04.32 JOHN MIRANDA 28	4:31.39 ANDE RASMUSSEN 30
4:35.29 KEITH SZOT 28	32.40 ERIC JOHNSON 26	1:04.34 ERIC JOHNSON 26	4:32.79 LARRY LANCASTER 31
4:39.03 JOHN DISALLE 28	32.56 BORIS TALAN 28	1:04.37 MARK SUTTON 25	4:33.52 STEVEN SHTAB 32
4:41.68 MICHAEL CAYWOOD 29	32.64 CHUCK DARDEN 25	1:05.51 MARK MACDONALD 25	4:34.04 DON MORAVEC 32
4:41.82 ALAN GREENWOOD 27	32.64 WINSTON RITCHEY 25	1:05.95 JAMES PARRACK 26	4:34.30 AL JAEGRS 31
4:45.37 IAIN ANDERSON 28	32.72 KEVIN DUGAN 27	1:06.02 CLAY DAUGHTREY 25	4:34.51 GORDON ANDREWS 33
800 M. FREE M E N 25-29	100 M. BRST M E N 25-29	200 M. I. M. M E N 25-29	4:40.42 JAMES MATYSEK 33
8:41.80 PAUL ROBINSON 93	1:05.09 JOHN WALDMAN 89	2:12.28 CLAY BRITT 89	800 M. FREE M E N 30-34
8:41.80 PAUL ROBINSON 26	1:07.08 JAMES PARRACK 26	2:13.96 PAUL ROBINSON 26	8:34.26 DAN STEPHENSON 89
9:32.98 PATRICK CASEY 27	1:10.68 JASON TIMMONS 26	2:20.06 MATHEW ROTH 26	9:07.32 CRIS WILLIAMS 32
9:36.19 CHARLES PIKE 25	1:10.79 TIM SHAW 26	2:20.77 MICHAEL COLLINS 26	9:13.18 LARRY LANCASTER 31
9:47.28 MATHEW ROTH 26	1:11.05 NEIL HARPER 28	2:20.91 JASON TIMMONS 27	9:24.76 BRUCE HAYES 30
9:56.86 DAVID KASTIGAR 29	1:11.29 ERIC JOHNSON 26	2:22.71 RANDALL EICKHOFF 28	9:33.59 AL JAEGRS 31
10:13.40 TONY BATHEY 29	1:11.43 BORIS TALAN 28	2:22.84 DAVID KASTIGAR 29	9:36.24 STEVEN SHTAB 32
10:21.57 W.VOLCKENING 27	1:11.76 TOM NORTHCUTT 28	2:23.51 TOM NORTHCUTT 28	9:38.21 MATTHEW FETTERS 32
10:34.49 DOUG DICKERSON 26	1:11.77 HENRY MATHER 28	2:25.94 ERIC JOHNSON 26	9:38.96 THOMAS KEATING 32
10:50.08 BILL WALLACE 28	1:11.91 LUKE SALERNO 26	2:26.63 GLEN STEWART 29	9:59.17 MATTHEW O'GRADY 33
10:51.64 JOHNNY MORA 29	1:13.27 KEVIN DUGAN 27	2:27.29 CLAY DAUGHTREY 25	10:05.75 THOMAS SHOEMAKER 31
1500 M. FREE M E N 25-29	200 M. BRST M E N 25-29	400 M. I. M. M E N 25-29	10:06.35 FRED MUNSON 34
16:23.21 ROB MACKLE 92	2:24.68 PETER MCCLAFFERTY 89	4:42.88 DAVID SWENSON 92	1500 M. FREE M E N 30-34
17:29.11 RANDALL EICKHOFF 28	2:25.36 JAMES PARRACK 26	4:52.77 PAUL ROBINSON 26	17:05.25 STEVEN FISHER 92
18:03.59 CHARLES PIKE 25	2:32.39 JASON TIMMONS 26	4:58.30 PATRICK BRUNDAGE 26	17:25.00 LARRY LANCASTER 31
18:53.69 DAVID KASTIGAR 29	2:38.42 LUKE SALERNO 26	5:06.70 MICHAEL COLLINS 27	17:28.38 GERRY RODRIGUES 30
19:01.88 ALAN GREENWOOD 27	2:38.55 F.CHARMFOROOSH 27	5:06.79 MATHEW ROTH 26	18:23.54 DON MORAVEC 32
19:53.10 W.VOLCKENING 27	2:39.04 ERIC JOHNSON 26	5:10.71 RANDALL EICKHOFF 28	18:31.52 THOMAS KEATING 32
19:59.30 DOUG DICKERSON 26	2:41.97 JIM IACOMETTI 29	5:20.21 DAVID KASTIGAR 29	18:45.59 MATTHEW O'GRADY 33
20:25.73 HENRY MATHER 28	2:46.10 TOM NORTHCUTT 28	5:26.83 ALAN GREENWOOD 27	18:53.94 THOMAS SHOEMAKER 31
20:33.08 JOHN LAPP 25	2:46.34 PATRICK BRUNDAGE 26	5:28.81 F.CHARMFOROOSH 27	18:56.05 JACK STAVROS 33
20:41.64 BILL WALLACE 28	2:47.96 KEVIN DUGAN 27	5:29.38 DAVID STUMP 25	19:49.15 TODD COOPER 31
20:42.57 BRIAN COLEY 26	2:50.16 MATHEW ROTH 26	5:32.18 KENTON JONES 25	20:22.71 PAUL TRICARICO 32
50 M. BACK M E N 25-29	50 M. FLY M E N 25-29	*****	20:39.72 KENNETH LEADER 34
26.85 MOOK RHODENBAUGH 92	25.77 JAMES LILLEY 89	50 M. FREE M E N 30-34	50 M. BACK M E N 30-34
26.97 MOOK RHODENBAUGH 28	25.73 TROY DALBEY 25NV	23.59 ROBERT KILLEEN 93	27.05 JAY YARID 93
28.49 NEIL HARPER 28	26.23 JACK MCKEAN 29	23.59 ROBERT KILLEEN 31	27.05 JAY YARID 30
29.26 MICHAEL GIVOT 26	26.76 WINSTON RITCHEY 25	23.62 JOHN SMITH 30	29.36 ALAN VOISARD 33
29.87 JACK MCKEAN 29	26.78 NEIL HARPER 28	24.18 JOHN BLACK 30	29.41 CHRIS SHAW 30
30.12 DAVID KASTIGAR 29	27.70 CHUCK DARDEN 25	24.41 BOBBY PATTEN 30	29.70 JOHN MONTESI 33
30.37 BERT BERGEN 26	27.74 MARK SUTTON 25	24.45 CLAY BRITT 32	29.77 TOM ROTH 30
30.54 TOM NORTHCUTT 28	27.77 STUART BARTON 25	24.91 CRAIG MALLERY 31	29.78 CLAY BRITT 32
30.71 CLAY DAUGHTREY 25	27.81 DANIEL HAYES 29	25.13 DAVID MALSBURY 31	30.06 DAVID MALSBURY 31
31.14 GRANT PALMER 29	27.90 RONALD MURLIN 26	25.20 ALAN VOISARD 33	30.48 MARK MORRIS 34
31.20 RICHARD BLANC 27	27.92 ALAN GREENWOOD 27	25.20 ANDE RASMUSSEN 30	30.50 M.T. SHEPARDSON 33
100 M. BACK M E N 25-29	100 M. FLY M E N 25-29	25.24 CHRISTOPHER SHAW 30	30.81 STEFAN JONSSON 30
58.42 CLAY BRITT 89	57.07 BRAD WELLS 89	100 M. FREE M E N 30-34	100 M. BACK M E N 30-34
1:02.06 PAUL ROBINSON 26	58.43 TODD ROBINSON 26	51.86 JAMES MONTGOMERY 89	56.83 JAY YARID 93
1:03.68 MICHAEL GIVOT 26	1:01.38 NEIL HARPER 28	53.62 JOHN BLACK 30	56.83 JAY YARID 30
1:04.42 MATTHEW HUNT 25	1:01.45 MARTY SARUSSI 28	54.74 ALAN VOISARD 33	59.83 CLAY BRITT 32
1:05.07 JAMES RHYNE 28	1:01.62 WINSTON RITCHEY 25	55.45 CRAIG MALLERY 31	1:04.17 ALAN VOISARD 33
1:05.43 DAVID KASTIGAR 29	1:01.98 PAUL ROBINSON 26	55.84 GERRY RODRIGUES 30	1:05.53 GORDON ANDREWS 33
1:05.46 TOM NORTHCUTT 28	1:02.50 STUART BARTON 25	55.98 MICKAEL ORN 31	1:08.06 JOHN BLACK 30
1:06.03 BERT BERGEN 26	1:02.70 RANDALL EICKHOFF 28	56.07 ROBERT FORGIT 33	1:08.50 TOM BRIGHAM 30
1:06.75 MICHAEL CAYWOOD 29	1:02.84 JOHN DISALLE 28	56.17 GORDON ANDREWS 33	1:09.21 AL JAEGRS 31
1:07.05 NEIL HARPER 28	1:03.16 KEN DORY 28	56.36 DON MORAVEC 32	1:09.90 BILL BACKETT 34
1:07.51 TONY MEINDL 25	1:03.99 MICHAEL GIVOT 26	56.39 PAUL O'BRIEN 30	1:10.50 TOM GITTINS 31
200 M. BACK M E N 25-29	200 M. FLY M E N 25-29	56.57 TONY MINNA 30	1:10.62 SCOTT MORGAN 32

TOP TEN

SHORT COURSE METERS

200 M. BACK M E N 30-34	200 M. FLY M E N 30-34	58.48 DANIEL PICK	36	1:09.75 BRUCE HATTON	36
2:04.63 JAY YARID	2:13.62 MARK SCHUMAM	200 M. FREE M E N 35-39		200 M. BACK M E N 35-39	
2:04.63 JAY YARID	2:21.61 CAMERON REID	1:59.38 LARRY WOOD	89	2:10.01 WILLIAM SPECHT	93
2:18.45 CAMERON REID	2:29.56 BOB DUGAN	1:59.91 L.J. MEISENHEIMER	36	2:10.01 WILLIAM SPECHT	35
2:21.95 GORDON ANDREWS	2:29.97 JEFF REILLY	2:03.17 LARRY WOOD	39	2:27.18 DARRELL RUCKER	35
2:23.01 JOHN MONTESE	2:31.07 JAMES CANDELARIA	2:04.00 DOUGLAS SCHLAK	37	2:27.39 JOHN ZELL	36
2:27.31 TED KRUCKEL	2:34.97 PAUL SHERMAN	2:10.64 ROB COPELAND	37	2:27.60 PAUL FETTERS	39
2:29.64 JOHN BLACK	2:36.84 DAVID MAAS	2:10.68 DANIEL PICK	36	2:28.44 STEVE KRISTEK	35
2:29.94 MARK MORRIS	2:39.56 CHARLES HARTJE	2:11.16 TOM BLISS	39	2:30.50 JOHN TUBRIDY	36
2:34.53 DREW FITZMORRIS	2:58.32 MARK CLEVINGER	2:11.53 JON RIGGS	35	2:30.94 BRUCE HATTON	36
2:34.76 JAKE GULICK	2:59.16 KEVIN VALLELY	2:11.60 WILLIAM MRAZEK	39	2:31.67 TERRY JAYNES	38
2:36.29 JOEL NORGAARD	2:59.97 STEPHEN WRIGHT	2:11.83 CLIFFORD AMSDEN	36	2:33.14 SCOTT MCMILLEN	39
50 M. BRST M E N 30-34	100 M. I.M. M E N 30-34	2:12.04 MICHAEL HEATHER	39	2:33.51 PAUL CISKE	37
29.62 GREG RHODENBAUGH	59.95 J. CLAY BRITT	400 M. FREE M E N 35-39		50 M. BRST M E N 35-39	
29.62 GREG RHODENBAUGH	1:02.65 ALAN VOISARD	4:18.22 ROB COPELAND	91	31.57 BENN DOYLE	93
29.73 DAVID GUTHRIE	1:02.65 CHRISTOPHER SHAW	4:28.13 LARRY WOOD	39	31.57 BENN DOYLE	35
31.29 CHRIS SHAW	1:03.84 MICKAEL ORN	4:30.51 L.J. MEISENHEIMER	36	31.88 RUSS MARSH	37
31.63 BEN DOYLE	1:03.96 STEFAN JONSSON	4:35.33 NED MAGGIORA	38	32.34 KARL KAZMAIER	37
31.76 MIKE GIROD	1:04.15 ROBERT HUDEK	4:41.13 DARRELL RUCKER	35	32.42 RON SCHAFFER	36
32.34 DAVID MALSBUY	1:04.25 M.T. SHEPARDSON	4:41.85 GARY QUINN	35	33.12 BRUCE HOWELL	37
32.55 PETER LAITI	1:04.49 GERRY RODRIGUES	4:42.32 JIM STITES	36	33.17 JACK GROSELLE	39
32.69 MICKAEL ORN	1:04.55 JOHN BLACK	4:42.47 WILLIAM REEVES	39	33.98 GREG BORDES	36
32.84 PHILIPPE CALAIS	1:04.99 PAUL O'BRIEN	4:42.50 DANIEL PICK	36	33.99 JAMIE LOUIE	36
32.99 MIKE WINTERBAUER	1:05.81 BRIAN VAILE	4:45.20 PETER NUNAN	35	34.12 KENNETH FARRAR	35
100 M. BRST M E N 30-34	200 M. I.M. M E N 30-34	4:47.60 BILL FENNER	37	34.25 DAVE RUBENSTEIN	39
1:04.33 DAVID GUTHRIE	2:12.33 TOBY WEISSERT	800 M. FREE M E N 35-39		100 M. BRST M E N 35-39	
1:04.33 DAVID GUTHRIE	2:22.11 AL JAEGER	8:58.83 WILLIAM SPECHT	93	1:08.40 STUART CORLISS	92
1:09.74 BEN DOYLE	2:23.54 CRIS WILLIAMS	8:58.83 WILLIAM SPECHT	35	1:10.45 RON SCHAFFER	35
1:11.63 MIKE WINTERBAUER	2:27.11 JOHN BLACK	9:23.28 ROB COPELAND	37	1:10.93 BENN DOYLE	35
1:11.90 PHILIPPE CALAIS	2:27.79 JEFF REILLY	9:32.67 LARRY WOOD	39	1:12.54 RUSS MARSH	37
1:12.52 PETER LAITI	2:28.58 CHRIS SHAW	9:41.49 JOHN ZELL	36	1:13.41 KARL KAZMAIER	37
1:12.80 CHRIS SHAW	2:29.21 DON MORAVEC	9:43.12 WILLIAM REEVES	39	1:13.57 JAMIE LOUIE	36
1:12.91 JAMES MATYSEK	2:29.50 TED KRUCKEL	9:48.49 DANIEL PICK	36	1:13.93 MATTHEW CLARK	37
1:13.11 LANCE VERNON	2:29.90 SCOTT MORGAN	9:56.62 ROBERT WRIGHT	39	1:15.90 KENNETH FARRAR	35
1:14.40 GERRY RODRIGUES	2:30.52 TODD STULTZ	9:57.95 RICHARD WIENECKE	35	1:16.30 MAURO BORDOVSKY	36
1:14.56 L ESPINOSA	2:32.49 J PARKS WESSOM	9:58.41 DARRELL RUCKER	35	1:16.43 FRED FARLEY	39
200 M. BRST M E N 30-34	400 M. I.M. M E N 30-34	9:58.78 JIM STITES	36	1:16.60 BARTON COBB	39
2:30.18 JOSEPH SHORE	4:44.78 ALLAN JAEGER	1500 M. FREE M E N 35-39		200 M. BRST M E N 35-39	
2:34.66 BEN DOYLE	4:50.66 BRUCE HAYES	17:25.79 ROB COPELAND	91	2:28.35 GREGORY HARRISON	89
2:40.11 JAMES MATYSEK	4:56.87 CAMERON REID	17:55.28 LARRY WOOD	39	2:35.57 MATTHEW CLARK	37
2:40.97 MIKE WINTERBAUER	5:00.70 GERRY RODRIGUES	18:27.48 DARRELL RUCKER	35	2:42.83 RON SCHAFFER	36
2:42.24 GERRY RODRIGUES	5:08.11 CRIS WILLIAMS	19:24.50 FRED MUNSON	35	2:44.39 JAMIE LOUIE	36
2:44.80 CAMERON REID	5:22.14 MATTHEW O'GRADY	19:37.39 DONALD UHLIR	36	2:47.85 CHRIS PACKARD	35
2:45.48 DAVID STEVENS	5:39.03 CHARLES HARTJE	19:38.44 RON FINLEY	35	2:47.91 FRED FARLEY	39
2:49.03 JOHN STENROOS	5:43.83 PAUL TRICARICO	19:52.22 MARK STOUT	38	2:49.29 JOHN NIXON	38
2:50.09 DAVE KRUSE	5:57.33 STEPHEN SULLIVAN	20:01.68 LARRY BLACK	35	2:49.51 WILLIAM MATSON	38
2:52.99 PATRICK RYAN	6:10.90 ALBERT WINSLOW	20:03.67 JAMES DALY	35	2:50.15 PAUL CISKE	37
2:54.34 CRAIG SIHNER	6:13.82 M.CECATIELLO	20:10.61 BUCK BROKER	37	2:52.71 RANDY SKALSKI	36
50 M. FLY M E N 30-34	*****	20:16.64 DAVID SAPPER	39	2:53.07 KEVIN GRIFFIN	39
25.06 MICHAEL BOTTOM	50 M. FREE M E N 35-39	50 M. BACK M E N 35-39		50 M. FLY M E N 35-39	
25.99 BOBBY PATTEN	23.82 BRUCE STAHL	27.54 WILLIAM SPECHT	93	25.89 WILLIAM SPECHT	93
26.03 ROBERT KILLEEN	23.82 BRUCE STAHL	27.54 WILLIAM SPECHT	35	25.89 WILLIAM SPECHT	35
26.74 CLAY BRITT	24.49 RICHARD HESS	29.76 JAMES BALLARD	36	26.80 CHARLIE NORELLI	37
27.30 STEFAN JONSSON	24.56 JIM MONTGOMERY	30.26 DAVID BARNES	38	27.14 JAMES BALLARD	36
27.57 CRAIG MALLERY	24.71 KIRK KOZLOWSKI	30.83 TERRY JAYNES	38	27.62 DAVID BARNES	38
27.63 TOM ROTH	24.86 TIM MCGINNIS	31.04 JOHN RIGGS	35	27.99 CHRIS DIXON	36
27.80 JOHN BLACK	25.17 PETER NUNAN	31.62 SCOTT MCMILLEN	39	28.05 L.J. MEISENHEIMER	36
28.04 ALAN VOISARD	25.30 L.J. MEISENHEIMER	31.66 JOHN SIMM	37	28.17 JOHN CRAIG	39
28.32 ERIN ERONEMO	25.43 JACK GROSELLE	31.71 JEFF HUMPHREYS	38	28.35 TERRY JAYNES	38
28.41 DAVID MALSBUY	25.81 EDWARD WEST	31.84 JOHN TUBRIDY	36	28.47 TOM REUDY	39
100 M. FLY M E N 30-34	25.84 JOE SHAKE	31.95 JACK BRETHWAITE	39	28.59 ROBERT FORT	35
56.43 MICHAEL BOTTOM	100 M. FREE M E N 35-39	100 M. BACK M E N 35-39		100 M. FLY M E N 35-39	
1:00.03 BOBBY PATTEN	53.94 BILL VICKERY	1:00.65 WILLIAM SPECHT	93	57.02 WILLIAM SPECHT	93
1:00.26 CLAY BRITT	54.09 BRUCE STAHL	1:00.65 WILLIAM SPECHT	35	57.02 WILLIAM SPECHT	35
1:01.89 JOHN BLACK	54.79 L.J. MEISENHEIMER	1:07.22 JOHN RIGGS	35	1:00.51 CHARLIE NORELLI	37
1:02.12 ERIN ERONEMO	55.24 KIRK KOZLOWSKI	1:07.63 DARRELL RUCKER	35	1:02.11 DAVID BARNES	38
1:02.20 CRAIG MALLERY	56.25 PETER NUNAN	1:07.75 GARY QUINN	35	1:02.73 JOHN CRAIG	39
1:02.21 JAN LORANT	56.84 JACK GROSELLE	1:08.52 JOHN TUBRIDY	36	1:03.48 MICHAEL HEATHER	39
1:03.89 TOM ULLRICH	57.02 LARRY WOOD	1:08.70 JOHN ZELL	36	1:03.52 TERRY JAYNES	38
1:04.22 KURT SMITH	57.54 JOE SHAKE	1:08.86 TERRY JAYNES	38	1:03.93 TOM BLISS	39
1:04.32 SCOTT MORGAN	57.63 TIM MCGINNIS	1:08.91 PAUL FETTERS	39	1:04.30 TOM HIEBER	36
1:04.46 STEFAN JONSSON	58.08 KARL JOYCE	1:08.92 STEVE KRISTEK	35	1:05.29 JIM GRUBBS	39

TOP TEN

SHORT COURSE METERS

1:05.70 STEVE KRISTEK 35	59.12 JOHN NEEDHAM 40	1:12.47 DAVID OWEN 41	1:08.65 RICHARD MARCHANT 42
200 M. FLY M E N 35-39	59.52 DAVID CASTO 40	1:15.03 LARRY CHASE 44	1:09.31 TOM COFFEY 42
2:06.97 WILLIAM SPECHT 93	200 M. FREE M E N 40-44	200 M. BACK M E N 40-44	200 M. FLY M E N 40-44
2:06.97 WILLIAM SPECHT 35	1:59.27 TIMOTHY BRODERICK92	2:22.17 TOD SPIEKER 89	2:16.15 BOO GALLAS 89
2:20.33 DAVID VANDAM 37	2:07.43 ROBERT STRAUSS 41	2:27.08 B.RANSOM-NELSON 40	2:27.75 DAVE TANNER 43
2:20.45 KERRY O'BRIEN 36	2:10.82 JOHN NEEDHAM 40	2:28.34 FRANK THOMPSON 41	2:31.06 KEITH BELL 44
2:25.28 ROBERT WRIGHT 39	2:11.23 B.RANSOM-NELSON 40	2:31.57 BILL DOW 42	2:33.49 BRUCE JOHNSON 42
2:27.92 MICHAEL HEATHER 39	2:11.64 FRANK THOMPSON 41	2:33.59 STEVE HECK 44	2:41.24 FRANK THOMPSON 41
2:29.15 STEVE KRISTEK 35	2:12.21 GARY HALL 42	2:34.03 LARRY CHASE 44	2:42.40 CRAIG SAINT-AMOUR 40
2:29.37 JIM MONTGOMERY 38	2:13.48 SHELDON FINCH 41	2:34.31 DAVID OWEN 41	2:46.10 WAYNE METHNER 40
2:29.45 JOHN CULHANE 37	2:14.15 LARRY CHASE 44	2:35.11 WILLIAM TINGLEY 43	2:51.06 FABIO ASTUDILLO 41
2:32.33 JIM STITES 36	2:14.24 EDWARD BELL 40	2:36.13 ROBERT STRAUSS 41	2:51.99 PAUL MCCLINTOCK 42
2:33.33 TOM HIEBER 36	2:14.96 PETER HUISVELD 42	2:44.87 JON EINSIDLER 42	2:52.80 TODD CONNELLY 42
100 M. I.M. M E N 35-39	2:14.98 DAVID OWEN 41	2:46.01 DAN KORNBLATT 43	2:53.25 CHRIS WEBB 42
1:00.79 RICHARD HESS 92	400 M. FREE M E N 40-44	50 M. BRST M E N 40-44	100 M. I.M. M E N 40-44
1:01.09 RICHARD HESS 38	4:18.45 KEVIN POLANSKY 89	30.80 C MILTENBERGER 93	1:02.30 RIC COOLEY 89
1:04.64 TOM REUDY 39	4:18.70 JIM MCCONICA 43	30.80 C.D. MILTENBERGER 42	1:04.46 C.D. MILTENBERGER 42
1:06.42 RUSS MARSH 37	4:42.45 FRANK THOMPSON 41	33.12 WAYNE MC CAULEY 44	1:05.99 STEVE HECK 44
1:06.82 BENN DOYLE 35	4:44.61 JOHN NEEDHAM 40	33.37 ALLEN STARK 44	1:06.44 BOB RUTH 40
1:07.25 ANDREW PETERS 36	4:44.76 PETER HUISVELD 42	33.44 BOB RUTH 40	1:07.98 LARRY CHASE 44
1:08.01 LARRY WOOD 39	4:45.75 DAVID OWEN 41	33.90 ROBERT PUELS 41	1:08.86 MARK CHATFIELD 40
1:08.05 JACK GROSELLE 38	4:47.39 PAUL DANIELS 44	34.26 CHUCK FISCHER 41	1:09.03 ROBERT PUELS 41
1:08.07 TERRY JAYNES 38	4:47.45 B.RANSOM-NELSON 40	34.27 RICHARD ENRIGHT 40	1:09.45 JOEL STAGER 40
1:08.15 JOE SHAKE 35	4:49.60 BRUCE JOHNSON 42	34.32 DAVID WESLEY 41	1:09.55 WAYNE KING 40
1:08.45 KARL JOYCE 37	4:57.06 PAUL SWEENEY 42	34.38 GREG HARRISON 40	1:10.02 BILL DOW 42
200 M. I.M. M E N 35-39	5:03.81 JERRY SCHEIBNER 40	34.40 STEVE HECK 44	1:10.45 LARRY LEMAIRE 40
2:15.67 CLAY EVANS 89	800 M. FREE M E N 40-44	100 M. BRST M E N 40-44	200 M. I.M. M E N 40-44
2:17.60 MATTHEW CLARK 37	8:52.23 JIM MCCONICA 93	1:07.98 C MILTENBERGER 93	2:18.73 JOHN CALVERT 89
2:20.70 DAVID BARNES 38	8:52.23 JIM MCCONICA 43	1:07.98 C.D. MILTENBERGER 42	2:26.98 STEVE HECK 43
2:21.69 TOM REUDY 39	9:43.22 FRANK THOMPSON 41	1:12.81 BOB RUTH 40	2:27.72 BOB RUTH 40
2:25.27 WILLIAM SPECHT 35	9:46.20 ROBERT STRAUSS 41	1:12.93 GREG HARRISON 40	2:31.00 GREG HARRISON 40
2:25.43 GARY QUINN 35	9:46.99 BRUCE JOHNSON 42	1:13.38 ALLEN STARK 44	2:32.64 LARRY CHASE 44
2:25.59 DAVID VANDAM 37	9:55.33 JOHN NEEDHAM 40	1:13.68 WAYNE MC CAULEY 44	2:33.23 FRANK THOMPSON 41
2:28.95 WILLIAM REEVES 39	10:00.19 DAVID OWEN 41	1:15.05 MARK CHATFIELD 40	2:34.22 TOM COFFEY 42
2:29.33 DARRELL RUCKER 35	10:01.01 PAUL SWEENEY 42	1:15.78 STEVE HECK 44	2:35.57 STEPHEN WILDER 43
2:29.70 BRUCE HATTON 36	10:03.70 DAVE TANNER 43	1:15.87 DAVID WESLEY 41	2:37.23 PETER HUISVELD 42
2:30.43 TERRY JAYNES 38	10:07.42 KEITH BELL 44	1:17.80 BOB LIOTTA 42	2:38.50 BRUCE FISHER 44
400 M. I.M. M E N 35-39	10:09.88 BRUCE FISHER 44	1:17.93 DAVE HILDEBRANDT 42	2:38.57 RICHARD MARCHANT 42
4:53.16 CLAY EVANS 89	1500 M. FREE M E N 40-44	200 M. BRST M E N 40-44	400 M. I.M. M E N 40-44
4:53.44 MATTHEW CLARK 37	17:38.17 DAVID GRAY 87	2:31.37 GREGORY HARRISON 93	5:00.76 JOHN CALVERT 89
5:10.28 LARRY WOOD 39	18:21.93 ROBERT STRAUSS 41	2:31.37 GREG HARRISON 40	5:23.51 STEVE HECK 43
5:10.82 TOM REUDY 39	18:37.19 BRUCE JOHNSON 42	2:36.32 C.D. MILTENBERGER 42	5:29.01 FRANK THOMPSON 41
5:14.60 NED MAGGIORA 38	18:54.96 PETER HUISVELD 42	2:43.77 BOB RUTH 40	5:30.14 ROBERT STRAUSS 41
5:22.41 BRUCE HATTON 36	19:00.44 JOHN NEEDHAM 40	2:46.81 STEVE HECK 43	5:31.67 DAVID OWEN 41
5:25.36 DARRELL RUCKER 35	19:01.76 DAVID OWEN 41	2:47.18 ALLEN STARK 44	5:40.11 PETER HUISVELD 42
5:25.36 PAUL CISKE 37	19:05.75 FRANK THOMPSON 41	2:50.55 DAVE HILDEBRANDT 42	5:46.15 PAUL DANIELS 44
5:28.44 DOUGLAS SCHLAK 37	19:20.77 PAUL SWEENEY 42	2:50.76 CHUCK FISCHER 41	5:46.29 BRUCE JOHNSON 42
5:29.25 JOHN CULHANE 37	19:31.79 PAUL DANIELS 44	2:53.10 SCOTT SCHLIEMAN 42	5:49.63 LARRY CHASE 44
5:38.01 SCOTT MCMILLEN 39	20:05.39 TODD CONNELLY 42	2:53.85 STEPHEN WILDER 43	5:50.67 JERRY SCHEIBNER 40
*****	20:16.83 JERRY SCHEIBNER 40	2:54.85 STEVE HANSEN 41	5:54.85 STEPHEN WILDER 43
50 M. FREE M E N 40-44	50 M. BACK M E N 40-44	50 M. FLY M E N 40-44	*****
24.81 JERRY HEIDENREICH93	28.93 JERRY HEIDENREICH91	26.66 JERRY HEIDENREICH93	50 M. FREE M E N 45-49
24.81 JERRY HEIDENREICH 43	30.91 WAYNE KING 41	26.66 JERRY HEIDENREICH 43	25.07 RICHARD ABRAHAMS 91
25.24 C.D. MILTENBERGER 42	31.13 MARK CHATFIELD 40	27.08 ALAN SANDLER 40	25.08 RICHARD ABRAHAMS 47
25.50 WILLIE WACHOB 40	31.34 BILL DOW 42	28.05 K.M. MCCORMACK 41	25.27 THOMAS PEEK 46
25.61 LEE MENCH 40	31.39 WILLIAM TINGLEY 43	28.30 C.D. MILTENBERGER 42	25.99 DON HAVENS 46
25.98 JOEL STAGER 40	31.85 STEVE HECK 44	29.10 BRAD PENCE 41	26.41 ROBERT SMITH 49
26.10 BOB RUTH 40	32.47 C.D. MILTENBERGER 42	29.13 STEVE HECK 44	26.48 TOM MEADE 45
26.16 CRAIG SAINT-AMOUR 40	32.54 LARRY CHASE 44	29.44 ED CRONICK 40	27.33 PAUL MCCORMICK 46
26.21 PHILIP SINATRA 42	32.79 CRIS ALLEN 40	29.49 CRAIG SAINT-AMOUR 40	27.33 ROBERT SIMONS 45
26.37 STEVE HECK 44	32.99 LOU HORWITZ 40	29.80 PHILIP SINATRA 42	27.36 HUGH WILDER 46
26.71 ROBERT PUELS 41	33.29 DAVID CASTO 40	30.00 DAVID CASTO 40	27.53 ARNIE DOWD 47
100 M. FREE M E N 40-44	100 M. BACK M E N 40-44	100 M. FLY M E N 40-44	27.55 LARRY SLOAN 45
55.02 C MILTENBERGER 93	1:04.50 RIC COOLEY 89	1:00.79 ANDREW MCPHERSON 89	100 M. FREE M E N 45-49
55.02 C.D. MILTENBERGER 42	1:07.66 B.RANSOM-NELSON 40	1:02.89 C.D. MILTENBERGER 42	56.45 ANDREW MCPHERSON 92
55.28 LEE MENCH 40	1:09.08 BILL DOW 42	1:04.08 K.M. MCCORMACK 41	57.17 THOMAS PEEK 46
57.09 WILLIE WACHOB 40	1:09.15 STEVE HECK 44	1:04.39 BRAD PENCE 41	58.03 RICHARD ABRAHAMS 47
57.58 EDWARD BELL 40	1:09.82 FRANK THOMPSON 41	1:05.93 CRAIG SAINT-AMOUR 40	58.13 DON HAVENS 46
57.70 JOEL STAGER 40	1:10.82 LOU HORWITZ 40	1:06.43 DAVE TANNER 43	59.08 HUGH WILDER 46
58.75 STEVE HECK 44	1:10.93 WAYNE KING 40	1:07.28 STEVE HECK 43	1:00.40 TOM MEADE 45
58.85 SHELDON FINCH 41	1:11.32 TOM COFFEY 42	1:07.93 BRUCE JOHNSON 42	1:00.60 LARRY SLOAN 45
58.95 BOB RUTH 40	1:12.37 RICHARD BOBER 42	1:08.34 GLENN STOREY 44	1:01.23 TOM CHAMBERLIN 46

TOP TEN

SHORT COURSE METERS

1:01.32 GEORGE BROWN 45	1:12.88 JAMES KING 47	1:09.00 HUGH WILDER 46	1:06.53 RICHARD BASSI 52
1:01.52 CHARLES JOHNSON 45	1:12.98 BOB KOLONKOWSKI 45	1:10.40 WILLIAM ROSS 45	1:07.01 ED DANEHY 51
1:01.57 WILLIAM FRANCIS 46	1:13.00 VIRGIL DANIELS 46	1:10.87 DAVID HAMILTON 46	1:07.41 JOHN WOODWORTH 51
200 M. FREE M E N 45-49	200 M. BACK M E N 45-49	200 M. FLY M E N 45-49	1:08.09 JOHN FASTRICH 52
2:05.81 ED CAZALET 88	2:24.39 TIM BIRNIE 92	2:25.95 ANDREW MCPHERSON 92	200 M. FREE M E N 50-54
2:11.32 FRED SCHLICHER 45	2:32.27 HUGH WILDER 46	2:26.91 KEITH BELL 45	2:12.18 ED CAZALET 92
2:12.59 DAVID GRAY 47	2:36.13 JOHN PHILLIPS 45	2:28.40 FRED SCHLICHER 45	2:16.94 EDWARD CAZALET 51
2:15.34 TOM CHAMBERLIN 46	2:38.61 ALLEN DEWESE 45	2:38.43 ARTHUR DEFFAA 45	2:20.65 ROBERT WILLIAMS 50
2:15.56 THOMAS PEEK 46	2:39.23 DAVID UGARKOVICH 46	2:45.58 JAMES GREEN 49	2:20.73 JACK GEOGHEGAN 51
2:15.58 PAUL MCCORMICK 46	2:40.24 VIRGIL DANIELS 46	2:49.83 BOB KOLONKOWSKI 45	2:30.51 STEPHEN SAYLOR 51
2:17.43 DON HAVENS 46	2:40.35 PAUL HEBERT 47	2:52.17 JOHN SELMER 48	2:31.14 PATRICK SCHLUP 53
2:17.78 TOM MEADE 45	2:40.47 BOB KOLONKOWSKI 45	2:52.46 HARRY GREENFIELD 48	2:33.56 JOHN WOODWORTH 51
2:19.62 WILLIAM ROSS 45	2:41.81 TOM MEADE 45	3:02.91 JOHN ZIEGLER 48	2:35.73 GARY TRIMBLE 50
2:20.27 HARALD JOHNSON 45	2:42.53 MICHAEL MCCOLLY 47	3:04.06 RICHARD BROOKS 49	2:38.74 PHIL EISENHART 50
2:20.34 LARRY SLOAN 45	2:45.09 PAULO FIGUEIREDO 47	3:07.27 GREGORY WILLIS 45	2:40.12 CHRIS STACK 52
400 M. FREE M E N 45-49	50 M. BRST M E N 45-49	100 M. I. M. M E N 45-49	2:40.86 CLINT BROOKHART 52
4:33.39 ED CAZALET 89	32.14 PAUL HENNE 93	1:05.45 ROBERT STRAND 92	400 M. FREE M E N 50-54
4:40.66 JOHN NOLAN 45	32.14 PAUL HENNE 47	1:08.17 ROBERT STRAND 47	4:40.16 ED CAZALET 92
4:41.85 KEITH BELL 45	33.11 DAN THOMPSON 46	1:09.61 TIM BIRNIE 48	5:01.95 STEVEN THRASHER 52
4:45.31 DAVID GRAY 47	33.44 WAYNE MCCAULEY 45	1:10.41 HUGH WILDER 46	5:02.20 JACK GEOGHEGAN 50
4:53.52 TOM CHAMBERLIN 46	34.77 SCOTT GUTHRIE 48	1:11.35 TOM MEADE 45	5:06.15 ROBERT WILLIAMS 50
4:58.73 WILLIAM ROSS 45	35.29 TOM BOAK 49	1:11.60 VIRGIL DANIELS 46	5:08.86 DICK STEWART 53
5:00.39 DAVID MINOR 45	35.95 PETER OROSZLAN 49	1:13.26 BILL PILLMORE 45	5:19.65 THOMAS BOAK 50
5:03.23 HUGH WILDER 46	36.11 GEORGE BROWN 45	1:14.21 PAUL HEBERT 47	5:31.95 STEPHEN SAYLOR 51
5:03.83 VIRGIL DANIELS 46	36.14 BILL GRIFFITH 46	1:14.30 DAVID UGARKOVICH 46	5:36.23 DONALD KROEGER 50
5:06.97 GREGORY WILLIS 45	36.29 RICHARD ABRAHAMS 47	1:14.54 ROB SCOTT 46	5:38.45 DAVE GILLANDERS 53
5:08.41 JOHN LANE 47	36.32 BILL ABBOTT 46	1:15.27 DENNIS MATKYO 46	5:40.15 BERT PETERSEN 54
800 M. FREE M E N 45-49	100 M. BRST M E N 45-49	200 M. I. M. M E N 45-49	5:47.15 ERIC MOORE 51
9:32.34 RICHARD BOYD 89	1:10.41 ROBERT STRAND 92	2:24.45 JOHN CALVERT 91	800 M. FREE M E N 50-54
9:39.70 JOHN NOLAN 45	1:12.32 PAUL HENNE 47	2:30.24 TIM BIRNIE 48	9:49.95 ED CAZALET 92
9:46.94 KEITH BELL 45	1:13.37 ROBERT STRAND 47	2:39.30 TOM CHAMBERLIN 46	10:21.43 ROBERT WILLIAMS 50
10:21.41 WILLIAM ROSS 45	1:14.76 WAYNE MCCAULEY 45	2:40.04 VIRGIL DANIELS 46	11:01.01 PATRICK SCHLUP 53
10:30.04 TOM CHAMBERLIN 46	1:19.30 STEVEN PETERSON 47	2:40.52 JAMES NASH 47	11:17.10 GUY LEWIS 50
10:36.48 GREGORY WILLIS 45	1:19.47 SCOTT GUTHRIE 48	2:42.09 DAVID UGARKOVICH 46	11:36.54 DOUG BROWN 54
10:53.49 DAVID SCOTT 46	1:19.62 RICK STAFFORD 46	2:42.29 PAUL HEBERT 47	11:45.88 STEPHEN SAYLOR 51
10:54.15 JOSEPH SANDERS 46	1:19.66 GEORGE BROWN 45	2:42.97 JOHN SELMER 48	11:55.16 DONALD KROEGER 50
11:12.57 DOUGLAS SELBY 48	1:19.67 TOM BOAK 49	2:43.45 BILL PILLMORE 45	11:59.23 RICHARD DOERR 50
11:19.78 THOMAS MOYER 45	1:21.39 PETER OROSZLAN 49	2:44.20 JAMES GREEN 49	12:02.97 DAVE GILLANDERS 53
11:25.93 BILL KEENAN 49	1:22.86 DON DAVIS 49	2:44.53 CHUCK ANDREWS 47	12:11.61 THOM BURGESS 50
1500 M. FREE M E N 45-49	200 M. BRST M E N 45-49	400 M. I. M. M E N 45-49	12:17.18 BILL RODENFELS 51
18:26.21 KEITH BELL 93	2:35.71 ROBERT STRAND 92	5:17.02 EDWARD CAZALET 89	1500 M. FREE M E N 50-54
18:26.21 KEITH BELL 45	2:46.71 WAYNE MCCAULEY 45	5:43.07 JOHN SELMER 48	19:16.63 BURWELL JONES 85
18:42.41 JOHN NOLAN 45	2:53.70 BILL GRIFFITH 46	5:54.26 PAUL HEBERT 47	20:05.23 ROBERT WILLIAMS 51
19:31.65 GREGORY WILLIS 45	2:57.32 STEVE PETERSON 46	6:01.31 DENNIS MATKYO 46	21:08.08 GUY LEWIS 50
19:55.10 JOHN SELMER 48	2:58.19 RICK STAFFORD 46	6:02.31 GREGORY WILLIS 45	21:46.07 STEPHEN SAYLOR 51
20:52.89 DOUGLAS SELBY 48	2:59.06 TOM BOAK 49	6:04.88 JOHN LANE 47	22:03.64 DAVID SZUCH 50
21:17.32 GARRY WARREN 46	3:02.84 FRED SHAW 47	6:06.37 PAULO FIGUEIREDO 47	22:47.02 DONALD KROEGER 50
21:27.46 RUSSELL OWENS 45	3:04.11 DENNIS MATKYO 46	6:14.12 GARRY WARREN 46	23:14.37 CLINT BROOKHART 52
21:30.03 JOHN GRAHAM 47	3:04.11 DON DAVIS 49	6:15.77 JOHN ZIEGLER 48	23:38.90 BOB OLSON 51
21:37.05 RICHARD WALLACE 45	3:04.82 DENNIS WILSON 45	6:19.74 HUGH DUNSEATH 49	23:42.66 BILL LIMBRECHT 54
21:48.35 ARTHUR DEFFAA 45	3:07.82 JOHN ZIEGLER 48	6:26.12 ROBERT SIMONS 45	24:34.27 DOUGLAS KOOP 52
50 M. BACK M E N 45-49	50 M. FLY M E N 45-49	*****	25:14.00 MICHAEL CHESNOE 51
29.33 ROBERT SMITH 89	27.08 DAN THOMPSON 93	50 M. FREE M E N 50-54	50 M. BACK M E N 50-54
29.87 ROBERT SMITH 49	27.08 DAN THOMPSON 47	26.35 JEFF FARRELL 88	31.42 JOHN SMITH 89
30.53 TIM BIRNIE 48	28.28 RICHARD ABRAHAMS 47	27.56 ROBERT WILLIAMS 50	34.62 ROBERT THOMAS 50
30.69 HUGH WILDER 46	29.12 FRED SCHLICHER 45	27.60 TOM ANGELL 53	35.22 PETER BETZER 51
32.34 BOB KOLONKOWSKI 45	30.00 HUGH WILDER 46	27.73 JACK GEOGHEGAN 51	35.46 JACK GEOGHEGAN 50
32.79 JAMES NASH 47	30.00 C.D. NIELSEN 47	27.91 EDWARD CAZALET 51	35.59 ED DANEHY 51
33.02 THOMAS FINNEGAN 47	30.18 DAVID HAMILTON 46	28.34 KEN NOVELL 50	36.49 DAVID DIEHL 51
33.12 RICHARD ABRAHAMS 47	30.38 DON HAVENS 46	28.36 MICHAEL MEALIFFE 53	36.62 LEE BETTIS 54
33.63 DAN BEHR 48	30.50 HARRY GREENFIELD 48	28.60 GARY TRIMBLE 50	37.17 GARY TRIMBLE 50
33.66 VIRGIL DANIELS 46	30.60 MARK EBEL 45	29.49 JAMES MIERS 50	38.13 DAVID GOLDNER 51
33.70 ROBERT VAN FOSSAN 47	30.61 BOB KOLONKOWSKI 45	29.56 DANIEL DAVIS 51	38.56 BOB REIMERS 50
100 M. BACK M E N 45-49	100 M. FLY M E N 45-49	29.60 JOHN FASTRICH 52	39.12 WALT REID 53
1:05.31 ROBERT SMITH 89	1:03.36 RICHARD ABRAHAMS 93	100 M. FREE M E N 50-54	100 M. BACK M E N 50-54
1:05.81 HUGH WILDER 46	1:03.36 RICHARD ABRAHAMS 47	59.58 ED CAZALET 92	1:10.07 JOHN SMITH 89
1:06.54 TIM BIRNIE 48	1:03.63 FRED SCHLICHER 45	1:01.60 EDWARD CAZALET 51	1:12.44 STEVEN THRASHER 52
1:08.22 ROBERT SMITH 49	1:04.56 BOO GRANER-GALLAS 46	1:01.63 JACK GEOGHEGAN 51	1:15.22 MICHAEL MEALIFFE 53
1:08.39 JOHN PHILLIPS 45	1:07.23 DAN THOMPSON 47	1:01.78 ROBERT WILLIAMS 50	1:16.22 HUGH RODDIN 51
1:10.74 PAUL HEBERT 47	1:08.26 PAUL HEBERT 47	1:04.48 TOM ANGELL 53	1:18.26 ROBERT THOMAS 50
1:11.95 JAMES NASH 47	1:08.65 DON HAVENS 46	1:04.57 KEN NOVELL 50	1:18.86 LEE BETTIS 54
1:12.53 DAVID UGARKOVICH 46	1:08.90 MARK EBEL 45	1:05.33 GARY TRIMBLE 50	1:20.00 ED DANEHY 51

TOP TEN

SHORT COURSE METERS

1:22.21 RICHARD BASSI	52	1:15.99 CHUCK BABCOCK	53	1:08.65 DAVID PAINTER	55	1:24.10 JOHN GOODE	59
1:23.15 RAYMOND WOLLER	51	1:16.52 RANDOLPH WISE	51	1:08.84 J STEPHEN MOSELEY	55	1:25.60 DAVID PAINTER	55
1:24.63 SANDY PLATTER	54	1:22.48 DAVID SZUCH	50	1:08.96 LEE BETTIS	55	1:26.66 ROBERT ADAMS	55
1:25.29 PATRICK SCHLUP	53	1:24.74 RAY HAMILTON	50	1:09.82 HENRY GLANCY	55	1:26.91 RICHARD HAY	56
200 M. BACK M E N 50-54		200 M. FLY M E N 50-54		1:11.40 JAMES JOHNSEN	57	1:29.07 J STEPHEN MOSELEY	55
2:32.59 ED CAZALET	93	2:36.01 ROBERT PROEBSTING89		200 M. FREE M E N 55-59		200 M. BACK M E N 55-59	
2:32.59 EDWARD CAZALET	51	2:42.84 JACK GEOGHEGAN	51	2:21.51 DAVID HARRISON	92	2:41.11 JACK BEATTIE	89
2:37.93 STEVEN THRASHER	52	3:08.81 DAVID SZUCH	50	2:22.78 ROBERT PROEBSTING	56	2:55.66 LEE BETTIS	55
2:45.69 HUGH RODDIN	51	3:14.63 GUY LEWIS	50	2:25.82 ERNIE LESKOVITZ	56	2:56.17 HENRY GLANCY	55
2:49.56 JACK GEOGHEGAN	50	3:21.87 C.R. ISELIN	50	2:30.61 DAVID HARRISON	55	3:02.05 BILL EARLEY	57
2:53.90 PATRICK SCHLUP	53	3:27.80 JOSEPH BOLZE	53	2:38.36 C.LEBOURGEOIS	59	3:03.82 SHELDON MONSEIN	58
2:56.64 PETER BETZER	51	3:28.40 PAUL HO	53	2:39.44 JERRY MYERS	55	3:04.59 BARRY FASBENDER	56
2:57.23 MIKE LAUX	52	3:29.04 DOUG KOOP	52	2:40.27 HENRY GLANCY	55	3:09.01 ROBERT ADAMS	55
2:58.58 DAVE GILLANDERS	53	3:35.16 STEPHEN SAYLOR	51	2:40.89 GEORGE MANN	55	3:09.66 C.LEBOURGEOIS	59
3:06.36 MIKE ENGEL	50	3:38.00 KEITH BARTON	54	2:41.75 BILL EARLEY	57	3:11.47 MARSHALL GREER	56
3:06.52 RAYMOND WOLLER	51	4:05.85 BILL LIMBRECHT	54	2:42.53 JAMES JOHNSEN	57	3:11.85 BRUCE MURRAY	56
50 M. BRST M E N 50-54		100 M. I.M. M E N 50-54		2:44.18 CHARLES MAAS	59	3:14.20 CHUCK WILMORE	58
34.15 MANUEL SANGUILY	87	1:07.60 DRURY GALLAGHER	89	400 M. FREE M E N 55-59		50 M. BRST M E N 55-59	
34.71 THOMAS BOAK	50	1:13.35 GARY TRIMBLE	50	5:00.88 GRAHAM JOHNSTON	87	33.77 MANUEL SANGUILY	89
36.14 GARY TRIMBLE	50	1:14.80 STEVEN THRASHER	52	5:09.84 DAVID COSTILL	57	38.19 MILTON GEE	56
36.81 PETER MICHEL	50	1:15.71 MIKE LAUX	52	5:16.48 ERNIE LESKOVITZ	56	38.83 DICK PETERSON	56
37.38 ROBERT LEWIS	50	1:16.15 PETER MICHEL	50	5:17.43 DAVID HARRISON	55	39.41 BOB PATTEN	58
37.68 THOM BURGESS	50	1:16.33 CHUCK BABCOCK	53	5:31.61 GEORGE MANN	55	39.45 STANLEY PANKO	55
38.14 PETER BETZER	51	1:16.54 ROBERT WILLIAMS	51	5:39.48 C.LEBOURGEOIS	59	40.40 A. EMORY HAWORTH	57
38.50 MIKE LAUX	51	1:17.78 JOHN WOODWORTH	51	5:54.04 JAMES JOHNSEN	58	40.51 HENRY GLANCY	55
39.04 DONALD KROEGER	50	1:19.86 ROBERT LEWIS	50	5:54.59 HENRY GLANCY	55	40.86 J.VANLANDINGHAM	59
39.08 DAVID SZUCH	50	1:19.99 PATRICK SCHLUP	53	5:59.80 RICHARD HELLER	55	41.09 BILL EARLEY	56
39.15 DONN SCHERER	50	1:20.72 RANDOLPH WISE	51	6:09.92 MILTON GEE	56	41.25 LLOYD SKRAMSTAD	59
100 M. BRST M E N 50-54		200 M. I.M. M E N 50-54		6:10.96 MIKE MILLIMAN	59	41.34 PETER RIDDLE	55
1:14.72 DRURY GALLAGHER	89	2:31.52 DRURY GALLAGHER	89	800 M. FREE M E N 55-59		100 M. BRST M E N 55-59	
1:17.85 THOMAS BOAK	50	2:44.55 DICK STEWART	53	10:30.57 DAVID HARRISON	93	1:16.32 MANUEL SANGUILY	88
1:22.67 GARY TRIMBLE	50	2:46.57 ROBERT WILLIAMS	51	10:30.57 DAVID HARRISON	55	1:21.77 DRURY GALLAGHER	55
1:24.52 ROBERT LEWIS	50	2:50.55 GARY TRIMBLE	50	10:35.48 DRURY GALLAGHER	55	1:24.31 DICK PETERSON	56
1:24.82 DICK STEWART	53	2:51.82 DAVID SZUCH	50	11:29.59 C.LEBOURGEOIS	59	1:26.65 BOB PATTEN	58
1:25.03 THOM BURGESS	50	2:52.14 PATRICK SCHLUP	53	12:05.69 GEORGE MANN	55	1:27.61 MILTON GEE	56
1:26.59 DAVID SZUCH	50	2:52.53 JOHN WOODWORTH	51	12:29.26 LANDON KIRCHNER	55	1:28.67 JERRY MYERS	55
1:27.83 DONALD KROEGER	50	2:55.86 JACK GEOGHEGAN	51	12:31.84 DICK HELLER	55	1:29.75 MEL GOLDSTEIN	55
1:28.03 C.R. ISELIN	50	2:55.96 RICHARD BASSI	52	13:12.08 NEIL WORTMANN	58	1:30.12 LANDON KIRCHNER	55
1:28.21 DONN SCHERER	50	2:56.47 CHUCK BABCOCK	53	13:18.23 RICHARD CHISHOLM	58	1:30.63 JOHN MEDICI	55
1:28.22 PAUL HO	53	3:02.71 STEPHEN SAYLOR	51	13:21.18 RONALD WILLIAMSON	55	1:32.96 HENRY GLANCY	55
200 M. BRST M E N 50-54		400 M. I.M. M E N 50-54		13:25.46 VICTOR SIRBU	56	1:33.88 J STEPHEN MOSELEY	55
2:45.11 DRURY GALLAGHER	89	5:20.81 DRURY GALLAGHER	89	1500 M. FREE M E N 55-59		200 M. BRST M E N 55-59	
2:55.76 THOMAS BOAK	50	5:37.27 EDWARD CAZALET	51	20:02.47 DRURY GALLAGHER	93	2:51.47 MANUEL SANGUILY	89
3:02.56 PATRICK SCHLUP	53	5:45.84 ROBERT WILLIAMS	50	20:02.47 DRURY GALLAGHER	55	3:04.24 DICK PETERSON	56
3:03.88 DICK STEWART	53	5:58.08 MIKE LAUX	52	21:01.17 ERNIE LESKOVITZ	56	3:08.35 BOB PATTEN	58
3:06.37 GARY TRIMBLE	50	6:00.78 DICK STEWART	53	21:31.04 BILL STEUART	57	3:18.58 BARRY FASBENDER	56
3:07.16 MIKE LAUX	52	6:14.38 JOHN WOODWORTH	51	21:31.64 C.LEBOURGEOIS	59	3:20.30 MILTON GEE	56
3:08.64 ROBERT LEWIS	50	6:19.97 DAVID SZUCH	50	22:53.81 BARRY FASBENDER	56	3:21.41 JOHN MEDICI	55
3:09.83 DAVID SZUCH	50	6:29.30 GUY LEWIS	50	23:29.01 LANDON KIRCHNER	55	3:22.91 LANDON KIRCHNER	55
3:12.78 RICHARD DOERR	50	6:43.34 C.R. ISELIN	50	23:31.57 DICK HELLER	55	3:28.70 J STEPHEN MOSELEY	55
3:13.84 THOM BURGESS	50	6:43.39 JAMES DULEY	54	23:53.31 MIKE MILLIMAN	59	3:31.16 PETER RIDDLE	55
3:14.01 DONALD KROEGER	50	6:53.94 JOSEPH BOLZE	53	24:44.32 RONALD WILLIAMSON	55	3:33.38 LEN SILVERSTEIN	59
50 M. FLY M E N 50-54		*****		25:15.87 VICTOR SIRBU	56	3:33.91 HARRY PIPER	58
29.34 ROBERT PROEBSTING88		50 M. FREE M E N 55-59		50 M. BACK M E N 55-59		50 M. FLY M E N 55-59	
29.39 MICHAEL MEALIFFE	53	26.60 DONALD HILL	89	32.69 YOSHI OYAKAWA	89	30.15 ROBERT BAILIE	90
30.47 ROBERT WILLIAMS	50	27.67 BOB BAILIE	57	34.97 MARSHALL GREER	56	30.19 ROBERT PROEBSTING	56
30.58 BERT PETERSEN	54	28.65 ROBERT PROEBSTING	56	35.09 SHELDON MONSEIN	58	31.28 BOB BAILIE	57
31.21 KEN NOVELL	50	29.23 JERRY KATZ	55	35.30 BILL EARLEY	57	33.53 ERNIE LESKOVITZ	56
31.56 RANDOLPH WISE	51	29.63 DAVID PAINTER	55	35.89 JOHN GOODE	59	33.56 JERRY KATZ	55
32.12 GARY TRIMBLE	50	29.66 JERRY MYERS	55	37.31 LEE BETTIS	55	34.17 BILL EARLEY	57
32.13 CHUCK BABCOCK	53	29.88 BILL EARLEY	57	37.57 HENRY GLANCY	55	34.85 DRURY GALLAGHER	55
32.95 LEONARD HANDEL	52	29.95 TOMMY KEHOE	59	38.05 RICHARD HAY	56	34.93 C.LEBOURGEOIS	59
33.47 DAVID SZUCH	50	30.47 J STEPHEN MOSELEY	55	38.59 ROBERT ADAMS	55	34.96 DAVE DRUM	57
33.70 ROBERT THOMAS	50	31.33 HENRY GLANCY	55	38.68 LLOYD SKRAMSTAD	59	35.18 A. EMORY HAWORTH	57
100 M. FLY M E N 50-54		31.44 BRUCE MURRAY	56	39.29 J STEPHEN MOSELEY	55	35.43 TELFAIR MAHAFFY	57
1:06.66 ROBERT PROEBSTING89		100 M. FREE M E N 55-59		100 M. BACK M E N 55-59		100 M. FLY M E N 55-59	
1:11.70 MIKE LAUX	52	1:00.08 DONALD HILL	89	1:12.17 YOSHI OYAKAWA	89	1:09.63 ROBERT PROEBSTING93	
1:12.27 BERT PETERSEN	54	1:01.49 BOB BAILIE	57	1:19.86 LEE BETTIS	55	1:09.63 ROBERT PROEBSTING	56
1:14.38 HUGH RODDIN	51	1:02.53 ROBERT PROEBSTING	56	1:20.24 SHELDON MONSEIN	58	1:16.41 ERNIE LESKOVITZ	56
1:14.64 ROBERT WILLIAMS	50	1:06.72 JERRY MYERS	55	1:20.65 BILL EARLEY	57	1:20.28 TELFAIR MAHAFFY	57
1:14.80 RICHARD BASSI	52	1:07.46 MEL GOLDSTEIN	55	1:23.36 LARRY GOOD	59	1:23.52 BOB PATTEN	58
1:15.91 KEN NOVELL	50	1:08.38 BILL EARLEY	57	1:23.44 HENRY GLANCY	55	1:23.53 C.LEBOURGEOIS	59

TOP TEN

SHORT COURSE METERS

1:25.29 HERBERT ALVARADO 58	1:11.04 SHERWIN DROBNER 60	1:26.74 KENNETH KIMBALL 63	1:37.45 GORDON GILLIN 63
1:25.90 EVERETT SMETHURST 58	1:11.77 WILLIAM DOLAN 64	1:27.94 C.LEBOURGEOIS 60	1:40.35 DONALD MESSER 61
1:30.16 STAN HATTMAN 55	1:13.10 C.LEBOURGEOIS 60	1:31.29 BOB BEST 61	1:42.69 WILLIAM CANNON 63
1:31.81 DAVID PAINTER 55	1:13.23 BARRY BARTLE 61	1:32.09 DOUG DONER 60	1:45.47 GENE SAPPER 64
1:33.87 SANDO 59	1:13.74 DONALD SONIA 63	1:33.11 C.E. WEATHERBEE 60	1:47.27 AARON KURTZMAN 64
200 M. FLY M E N 55-59	1:15.02 THOMAS KOENIG 61	1:33.21 THOMAS KOENIG 61	1:47.83 FRANK PETUYA 60
2:42.05 ROBERT PROEBSTING 93	200 M. FREE M E N 60-64	200 M. BACK M E N 60-64	200 M. FLY M E N 60-64
2:42.05 ROBERT PROEBSTING 56	2:21.77 GRAHAM JOHNSTON 91	2:49.13 GRAHAM JOHNSTON 93	3:00.48 HARRY HUNSICKER 93
2:56.87 ERNIE LESKOVITZ 56	2:32.40 JIM KALAS 60	2:49.13 GRAHAM JOHNSTON 62	3:00.48 HARRY HUNSICKER 62
3:04.41 TELFAIR MAHAFFY 57	2:40.66 ED FELICIONI 62	3:04.75 RON JOHNSON 62	3:16.50 HERB KERN 61
3:12.04 BARRY FASBENDER 56	2:41.01 C.LEBOURGEOIS 60	3:05.49 CLARKE MITCHELL 61	3:19.36 C.LEBOURGEOIS 60
3:14.04 C.LEBOURGEOIS 59	2:43.71 JAMES PITTS 63	3:07.51 KEN KIMBALL 63	3:47.37 C.H. KOHNKEN 60
3:25.37 LANDON KIRCHNER 55	2:45.78 BARRY BARTLE 61	3:08.19 C.LEBOURGEOIS 60	3:52.00 JOHN GOODE 60
3:25.50 HERBERT ALVARADO 58	2:45.97 SHERWIN DROBNER 60	3:12.31 JOHN GOODE 60	3:53.92 WILLIAM CANNON 63
3:28.61 CHARLES MAAS 59	2:47.72 DICK BOWER 63	3:12.63 STEVE HADLEY 61	3:55.22 JOHN BAUMAN 63
3:49.53 RONALD WILLIAMSON 55	2:47.89 DON BAKER 62	3:24.02 ROBERT CONNOR 63	4:00.38 PARRY O'BRIEN 61
4:15.59 MICHAEL VERBA 58	2:48.19 LEN GOLDSTONE 64	3:24.47 C.E. WEATHERBEE 60	4:26.80 RICHARD FRYLING 61
100 M. I.M. M E N 55-59	2:48.62 C.H. KOHNKEN 60	3:27.28 DOUG DONER 60	5:11.09 NED ALLEN 63
1:12.57 DAVE COSTILL 91	400 M. FREE M E N 60-64	50 M. BRST M E N 60-64	100 M. I.M. M E N 60-64
1:14.31 DAVE COSTILL 57	5:02.20 GRAHAM JOHNSTON 93	35.31 JOHN KORTHEUER 91	1:14.68 JOHN KORTHEUER 91
1:17.97 MEL GOLDSTEIN 55	5:02.20 GRAHAM JOHNSTON 62	36.77 JOHN KORTHEUER 62	1:17.82 JOHN KORTHEUER 62
1:18.12 DICK PETERSON 56	5:19.12 C.LEBOURGEOIS 60	37.29 HARRY HUNSICKER 62	1:19.90 GRAHAM JOHNSTON 61
1:18.70 BILL EARLEY 56	5:27.86 JIM KALAS 60	37.58 NICK TEMPLEMAN 62	1:19.99 RON JOHNSON 62
1:20.24 JERRY MYERS 55	5:47.61 BOB BEST 61	37.65 AULIS KAHKONEN 62	1:20.95 C.LEBOURGEOIS 60
1:23.09 STEPHEN MOSELEY 55	5:54.04 DICK BOWER 63	38.40 THOMAS KOENIG 61	1:21.91 LEN GOLDSTONE 64
1:23.29 BRUCE MURRAY 56	5:57.10 LEN GOLDSTONE 64	40.46 AARON KURTZMAN 64	1:23.63 CLARKE MITCHELL 61
1:23.41 TELFAIR MAHAFFY 57	5:57.59 KENNETH KIMBALL 63	41.17 JOHN BLECK 60	1:24.14 NICK TEMPLEMAN 62
1:23.94 DAVID PAINTER 55	5:58.73 JAMES PITTS 63	41.91 GENE SAPPER 64	1:25.12 HERB KERN 61
1:24.49 DAVE DRUM 57	5:59.68 BARRY BARTLE 61	42.26 DAN GRUENDER 63	1:26.20 ROBERT BADGER 62
200 M. I.M. M E N 55-59	6:00.76 C.H. KOHNKEN 60	42.53 ROBERT BADGER 62	1:27.18 DICK WEBBER 64
2:40.88 DAVE COSTILL 91	800 M. FREE M E N 60-64	100 M. BRST M E N 60-64	200 M. I.M. M E N 60-64
2:41.77 DRURY GALLAGHER 55	11:14.13 WILLIAM PHILLIPS 89	1:18.77 JOHN KORTHEUER 91	2:46.69 GRAHAM JOHNSTON 91
2:51.28 MEL GOLDSTEIN 55	10:41.44 GRAHAM JOHNSTON 62NV	1:21.56 JOHN KORTHEUER 62	3:00.92 JOHN KORTHEUER 62
2:54.37 DICK PETERSON 56	11:19.48 JIM KALAS 60	1:23.87 NICK TEMPLEMAN 62	3:03.98 BOB BEST 61
2:59.71 BILL EARLEY 57	11:30.26 C.LEBOURGEOIS 60	1:26.12 BOB BEST 61	3:06.22 HERB KERN 61
3:02.67 LARRY GOOD 59	12:21.50 BARNEY HUNGERFORD 60	1:31.57 JOHN BLECK 60	3:07.43 JIM KALAS 60
3:03.93 TELFAIR MAHAFFY 57	12:22.28 C.H. KOHNKEN 62	1:35.71 DAN GRUENDER 63	3:08.86 C.LEBOURGEOIS 60
3:04.78 C.LEBOURGEOIS 59	12:23.69 BARRY BARTLE 61	1:35.74 GENE SAPPER 64	3:09.90 CLARKE MITCHELL 61
3:08.47 BARRY FASBENDER 56	12:45.49 HERB KERN 61	1:37.65 ROBERT CURRAN 61	3:16.55 GORDON GILLIN 63
3:08.94 LANDON KIRCHENER 55	13:07.94 DICK BOWER 63	1:37.88 DONALD BAKER 62	3:19.15 C.H. KOHNKEN 60
3:10.76 DAVE DRUM 57	13:15.02 BILL HEBERT 62	1:39.90 BOB METH 64	3:22.28 C.E. WEATHERBEE 60
400 M. I.M. M E N 55-59	13:40.79 JAMES PITTS 62	1:41.52 AARON KURTZMAN 64	3:24.09 JOHN BLECK 60
5:54.37 BURWELL JONES 89	1500 M. FREE M E N 60-64	200 M. BRST M E N 60-64	400 M. I.M. M E N 60-64
6:30.97 BARRY FASBENDER 56	20:12.52 GRAHAM JOHNSTON 93	3:00.71 JOHN KORTHEUER 91	6:02.73 GRAHAM JOHNSTON 93
6:43.92 TELFAIR MAHAFFY 57	20:12.52 GRAHAM JOHNSTON 62	3:09.66 JOHN KORTHEUER 62	6:02.73 GRAHAM JOHNSTON 62
6:51.41 LANDON KIRCHENER 55	21:40.79 C.LEBOURGEOIS 60	3:16.61 NICK TEMPLEMAN 62	6:33.90 C.LEBOURGEOIS 60
7:13.08 JOHN GOODE 59	23:21.05 BARNEY HUNGERFORD 60	3:26.44 THOMAS KOENIG 61	6:44.86 RON JOHNSON 62
7:19.54 STAN HATTMAN 55	24:12.88 HERB KERN 61	3:34.13 DAN GRUENDER 63	6:49.30 HERB KERN 61
7:26.63 NEIL WORTMANN 58	24:35.37 BARRY BARTLE 61	3:37.03 DON BAKER 62	7:03.78 GORDON GILLIN 62
7:28.03 RONALD WILLIAMSON 55	24:55.65 JAMES PITTS 63	3:38.40 GENE SAPPER 64	7:16.92 C.H. KOHNKEN 60
8:00.49 ROBERT SWAIN 56	24:55.91 JOHN BLECK 60	3:40.90 BENGT STROM 60	7:29.07 JOHN GOODE 60
8:05.55 DAVID GLADFELTER 57	24:58.27 DICK BOWER 63	3:42.96 JOHN BAUMAN 63	7:32.11 C.E. WEATHERBEE 60
8:19.12 R RODRIGUE 59	25:08.78 BILL HEBERT 62	3:47.37 BOB METH 64	7:50.81 WILLIAM CANNON 63
*****	26:19.86 DONALD BAKER 62	3:47.54 RICHARD FRYLING 60	7:51.98 JOHN BAUMAN 63
50 M. FREE M E N 60-64	50 M. BACK M E N 60-64	50 M. FLY M E N 60-64	*****
28.86 FRANK PIEMME 88	34.81 PAUL HUTINGER 86	32.34 JOHN KORTHEUER 91	50 M. FREE M E N 65-69
30.64 SHERWIN DROBNER 60	36.77 RON JOHNSON 62	33.11 HARRY HUNSICKER 62	29.63 FRANK PIEMME 90
30.71 DICK BOWER 63	37.07 JOHN GOODE 60	33.29 JOHN KORTHEUER 62	30.41 FRANK PIEMME 68
30.79 DICK WEBBER 64	37.63 CLARKE MITCHELL 61	33.87 RON JOHNSON 62	31.40 MILTON SENS 67
31.12 DONALD BAKER 62	37.77 STEVE HADLEY 61	34.04 HERB KERN 61	33.01 FRED TRASK 66
31.32 WILLIAM DOLAN 64	38.78 DENNY SAUNDERS 61	35.32 BOB BEST 61	33.53 HARVEY PROSSER 65
31.47 GRAHAM JOHNSTON 61	39.22 KEN KIMBALL 63	35.63 C.LEBOURGEOIS 60	33.69 ROBERT BLAKE 68
31.62 C.LEBOURGEOIS 60	40.77 DOUG DONER 60	36.28 JIM KALAS 60	33.98 BOB WHITE 65
31.69 JAMES PITTS 62	40.98 GERALD MARKOFF 62	37.01 DICK WEBBER 64	34.24 ELMER SCHNITZER 65
31.71 KENNETH KIMBALL 63	41.01 SHERWIN DROBNER 60	37.04 PARRY O'BRIEN 61	34.42 DONALD HUBBARD 65
31.73 DONALD SONIA 63	41.59 ROBERT COULTER 60	37.12 AARON KURTZMAN 64	34.77 AUGUST MOTMANS 66
100 M. FREE M E N 60-64	100 M. BACK M E N 60-64	100 M. FLY M E N 60-64	34.86 LUMAN SUTTON 66
1:05.52 CHARLES BALDWIN 90	1:17.31 PAUL HUTINGER 86	1:15.69 JOHN KORTHEUER 91	100 M. FREE M E N 65-69
1:08.75 JIM KALAS 60	1:18.78 GRAHAM JOHNSTON 62	1:23.58 RON JOHNSON 62	1:07.13 FRANK PIEMME 90
1:09.66 DONALD BAKER 62	1:22.13 JOHN GOODE 60	1:28.40 PARRY O'BRIEN 61	1:09.93 FRANK PIEMME 68
1:10.60 JAMES PITTS 63	1:22.90 STEVE HADLEY 61	1:29.04 C.LEBOURGEOIS 60	1:12.81 FRED TRASK 66
1:10.93 DICK BOWER 63	1:24.36 CLARKE MITCHELL 61	1:29.48 HERB KERN 61	1:14.42 ELMER SCHNITZER 65

TOP TEN

SHORT COURSE METERS

1:15.96 HARVEY PROSSER	65	1:40.36 ROBERT RISLEY	66	1:40.75 LEE ARTH	69	1:27.20 RICHARD AVERY	70
1:18.10 ROBERT BLAKE	68	1:41.25 WILFORD DOLPHIN	67	1:43.21 LUMAN SUTTON	66	200 M. FREE M E N 70-74	
1:19.53 GEORGE BRINTON	69	1:41.92 JACK MITCHELL	66	1:53.88 ART KELLEY	68	2:46.86 RAY TAFT	89
1:20.45 ROGER FRANKS	66	1:45.79 JAMES WILLIAMSON	69	1:58.00 DON KORTEN	66	2:50.68 JURGEN SCHMIDT	70
1:21.36 JOHN DAILY	65	1:47.41 DON KORTEN	66	2:01.88 WARREN FOSTER	67	3:00.15 JOHN WOODS	70
1:22.27 BERNIE GUTTILA	67	1:48.23 DONALD KELLER	66	2:03.05 PIERCE BRAY	69	3:04.13 STEVE CARLSON	74
1:23.03 JARKA BURIAN	66	200 M. BACK M E N 65-69		200 M. FLY M E N 65-69		3:08.35 WALT LINDSTROM	70
200 M. FREE M E N 65-69		2:54.25 PAUL HUTINGER	90	3:07.91 CHARLES MOSS	93	3:09.40 JOHN PATTEN	72
2:34.27 WILLIAM PHILLIPS	93	3:01.32 PAUL HUTINGER	68	3:07.91 CHARLES MOSS	65	3:09.85 WILLIAM BLANCHARD	70
2:34.27 WILLIAM PHILLIPS	65	3:14.49 BOB WHITE	65	3:24.39 JOSEPH KURTZMAN	67	3:11.07 BOB MERRICK	73
2:38.87 FRANK PIEMME	68	3:27.78 GEORGE BRINTON	69	3:35.33 KEITH CARTER	69	3:11.70 BILL ODMAN	73
2:42.78 FRED TRASK	66	3:27.91 LEE ARTH	68	3:42.09 LEE ARTH	68	3:12.83 RICHARD SMITH	73
2:46.45 ROGER FRANKS	66	3:34.78 JOHN DAILY	65	3:57.23 ART KELLEY	68	3:15.61 GEORGE HUBBELL	74
2:46.88 ELMER SCHNITZER	65	3:37.95 W MORGAN BYERS	66	4:47.61 WARREN FOSTER	67	400 M. FREE M E N 70-74	
2:49.49 HARVEY PROSSER	65	3:44.13 JACK MITCHELL	66	100 M. I.M. M E N 65-69		5:56.06 RAY TAFT	89
2:51.22 ROBERT BLAKE	68	3:44.26 JACK TRUBY	68	1:19.45 CHARLES MOSS	93	6:12.49 JURGEN SCHMIDT	70
2:53.26 BOB WHITE	65	3:44.63 WILFORD DOLPHIN	68	1:19.45 CHARLES MOSS	65	6:28.28 WILLIAM BLANCHARD	70
2:53.31 W MORGAN BYERS	66	3:44.86 NORMAN GARSOE	69	1:19.90 PAUL HUTINGER	68	6:34.75 JOHN WOODS	70
2:59.00 BERNIE GUTTILA	67	50 M. BRST M E N 65-69		1:26.40 FRANK PIEMME	68	6:40.07 JOHN PATTEN	72
400 M. FREE M E N 65-69		38.18 JOSEPH KURTZMAN	91	1:31.31 FRED TRASK	66	6:47.12 RICHARD SMITH	73
5:26.81 WILLIAM PHILLIPS	93	39.36 CHARLES MOSS	65	1:33.11 LUMAN SUTTON	66	6:48.14 DAVID MULLIKEN	74
5:26.81 WILLIAM PHILLIPS	65	39.49 JOSEPH KURTZMAN	67	1:33.11 AUGUST MOTMANS	66	7:10.97 WALT LINDSTROM	70
5:40.90 ROGER FRANKS	66	43.78 AUGUST MOTMANS	66	1:33.43 LEE ARTH	68	7:16.42 ELLIOTT SCHOFIELD	71
5:41.43 FRANK PIEMME	68	44.03 CARL EDWARDS	67	1:34.01 W MORGAN BYERS	66	7:28.62 BOB ACKER	72
5:57.73 FRED TRASK	65	44.05 DON KORTEN	66	1:35.86 DONALD HUBBARD	66	7:31.28 M.LAZDINS	72
6:05.53 HARVEY PROSSER	65	44.09 JAMES FORBES	67	1:37.13 WAYNE SHADBOLT	68	800 M. FREE M E N 70-74	
6:15.51 ELMER SCHNITZER	65	45.44 LEE ARTH	68	200 M. I.M. M E N 65-69		12:15.49 RAY TAFT	89
6:26.87 JOHN DAILY	65	47.24 DONALD HUBBARD	65	2:56.23 CHARLES MOSS	93	12:50.35 JURGEN SCHMIDT	70
6:30.18 W MORGAN BYERS	66	47.45 J.VAN REYMERSDAL	65	2:56.23 CHARLES MOSS	65	13:23.77 RAYMOND TAFT	74
6:31.50 BRUNO WEBER	65	47.51 NORMAN GARSOE	69	3:09.31 FRANK PIEMME	68	13:56.73 GILBERT YOUNG	70
6:32.58 LEE ARTH	68	100 M. BRST M E N 65-69		3:24.27 KEITH CARTER	69	14:12.76 DAVID MULLIKEN	74
800 M. FREE M E N 65-69		1:27.91 BARTON GREENBERG	89	3:26.89 LEE ARTH	68	14:58.65 BUD JACKSON	73
11:33.11 ROGER FRANKS	93	1:36.01 JOSEPH KURTZMAN	67	3:28.80 JOHN DAILY	65	16:40.16 TONY VITALE	71
11:33.11 ROGER FRANKS	66	1:39.33 LEE ARTH	68	3:33.97 W MORGAN BYERS	66	17:18.64 JOHN MELVILLE	73
11:34.87 WILLIAM PHILLIPS	65	1:39.49 JOSEPH TOFEL	65	3:46.14 ISAAC SISKIND	65	17:33.55 MARTIN KILLORY	74
12:14.61 FRANK PIEMME	68	1:41.06 DONALD HUBBARD	66	3:47.26 DON KORTEN	66	18:05.54 JOSEPH MALLON	71
12:57.11 LEE ARTH	68	1:43.58 NORMAN GARSOE	69	3:49.45 JACK MITCHELL	66	1500 M. FREE M E N 70-74	
13:06.60 W MORGAN BYERS	66	1:44.16 JAMES FORBES	67	3:51.00 RICHARD DANIEL	67	23:59.12 ALDO DA ROSA	88
13:40.22 JORDAN WOLLE	65	1:44.31 JOHN DAILY	65	400 M. I.M. M E N 65-69		24:56.52 JURGEN SCHMIDT	70
13:45.39 JOHN DAILY	65	1:45.20 DON KORTEN	66	6:28.87 CHARLES MOSS	93	27:06.12 RICHARD SMITH	73
14:01.68 ROBERT BLAKE	68	1:47.74 JOHN STERN	69	6:28.87 CHARLES MOSS	65	28:03.71 BOB MERRICK	73
14:07.21 HARLAN DRAKE	65	1:48.63 WAYNE FIELD	66	7:19.33 LEE ARTH	68	29:56.58 BOB ACKER	72
14:19.52 DOUGLAS STRONG	68	200 M. BRST M E N 65-69		8:19.99 DOUGLAS STRONG	68	32:15.97 JOHN CRANCH	71
1500 M. FREE M E N 65-69		3:16.65 CHARLES MOSS	93	8:29.14 RICHARD DANIEL	67	32:23.84 TONY VITALE	72
21:57.69 ROGER FRANKS	93	3:16.65 CHARLES MOSS	65	8:47.31 ART KELLEY	68	34:32.34 JOHN MELVILLE	74
21:57.69 ROGER FRANKS	66	3:38.57 JOHN DAILY	65	9:43.58 AL ROGERSON	68	39:07.97 T JOHNSON	71
22:00.40 WILLIAM PHILLIPS	65	3:38.58 LEE ARTH	68	9:45.19 HOWARD STOKER	68	50 M. BACK M E N 70-74	
23:04.11 FRANK PIEMME	68	3:53.71 NORMAN GARSOE	69	11:09.40 BILL BRESKO	65	38.44 RAY TAFT	89
23:58.52 FRED TRASK	65	4:02.06 WILFORD DOLPHIN	68	*****		38.98 GEORGE GANDSEY	70
26:08.70 JOHN DAILY	65	4:15.10 WAYNE FIELD	66	50 M. FREE M E N 70-74		40.24 ANDREW HOLDEN	73
30:08.72 JOHN MILTON	65	4:17.02 JAMES FORBES	67	32.11 RAYMOND HAKOMAKI	92	41.18 JOHN DILLEY	72
30:34.64 VESTER BOONE	68	4:20.47 VESTER BOONE	68	32.33 DONALD AGATE	72	41.67 JOHN WOODS	70
30:52.01 ISAAC SISKIND	65	4:23.47 A.DE LA VEGA	67	33.04 JURGEN SCHMIDT	70	41.91 DONALD AGATE	72
31:49.96 AL ROGERSON	68	4:40.83 JOHN SINACORE	69	33.44 ANDREW HOLDEN	73	43.80 GAETANO PAVONE	71
50 M. BACK M E N 65-69		50 M. FLY M E N 65-69		34.10 RAYMOND TAFT	74	44.05 RICHARD AVERY	70
35.54 PAUL HUTINGER	90	33.63 FRANK PIEMME	90	34.44 RICHARD KENNEDY	72	45.76 BOB MERRICK	73
36.47 PAUL HUTINGER	68	34.98 FRANK PIEMME	68	34.78 JOHN WOODS	70	45.99 RAYMOND TAFT	74
36.82 THOMAS SMITH	66	35.41 PAUL HUTINGER	68	35.43 RICHARD AVERY	70	47.61 GILBERT YOUNG	70
39.52 GEORGE BRINTON	69	35.53 CHARLES MOSS	65	35.45 JOHN PATTEN	72	100 M. BACK M E N 70-74	
40.08 BOB WHITE	65	36.24 DONALD HUBBARD	66	36.16 ELMER FROST	70	1:24.30 RAY TAFT	89
44.40 WILFORD DOLPHIN	68	36.42 JOSEPH KURTZMAN	67	36.65 STEVE CARLSON	74	1:29.63 JOHN DILLEY	72
44.46 JACK TRUBY	68	37.65 THOMAS SMITH	66	100 M. FREE M E N 70-74		1:30.00 GEORGE GANDSEY	70
45.17 JACK MITCHELL	66	39.54 LUMAN SUTTON	66	1:12.57 JOHN RICHARDS	92	1:33.38 RAYMOND TAFT	74
46.11 DON KORTEN	66	41.30 JOSEPH TOFEL	65	1:16.51 JURGEN SCHMIDT	70	1:35.61 JOHN WOODS	70
46.68 DUDLEY DEAN	68	42.19 DON KORTEN	66	1:18.04 RAYMOND TAFT	74	1:40.98 BOB MERRICK	73
46.86 JAMES WILLIAMSON	69	42.68 GEORGE BRINTON	69	1:19.03 JOHN WOODS	70	1:44.66 RICHARD AVERY	70
100 M. BACK M E N 65-69		100 M. FLY M E N 65-69		1:22.86 BOB MERRICK	73	1:45.66 EARL WALTER	71
1:19.68 PAUL HUTINGER	93	1:20.32 CHARLES MOSS	93	1:23.85 BILL ODMAN	73	1:46.27 STEVE CARLSON	74
1:19.68 PAUL HUTINGER	68	1:20.32 CHARLES MOSS	65	1:23.95 WALT LINDSTROM	70	1:47.53 ELLIOTT SCHOFIELD	71
1:27.23 GEORGE BRINTON	69	1:25.49 JOSEPH KURTZMAN	67	1:24.31 JOHN PATTEN	72	1:47.61 GILBERT YOUNG	70
1:31.51 BOB WHITE	65	1:33.01 KEITH CARTER	69	1:26.13 LOUIS GIBERSON	73	200 M. BACK M E N 70-74	
1:39.24 WAYNE SHADBOLT	69	1:36.76 DONALD HUBBARD	66	1:26.95 ELMER FROST	70	3:07.57 RAY TAFT	89

TOP TEN

SHORT COURSE METERS

3:23.72	GEORGE GANDSEY	70	5:02.56	JACK BURGAN	71	3:31.93	DEXTER WOODFORD	79	42.85	PAUL KRUP	93
3:35.73	GAETANO PAVONE	71	7:07.58	FRANK SCHURR	71	3:35.58	BERNIE BERGMAN	76	42.85	PAUL KRUP	75
3:36.04	JOHN DILLEY	72	7:42.50	JAY BEELER	70	3:45.71	GENE CROSSETT	79	44.30	ALDO DA ROSA	75
3:55.50	JOHN CRANCH	71	8:03.78	T JOHNSON	71	3:46.61	HENRY SHOSTCHUK	76	47.86	BRUD CLEVELAND	75
3:56.25	RICHARD AVERY	70	100 M. I.M. M E N 70-74			3:51.33	HAM MORNINGSTAR	76	48.63	JERRY EVERALL	79
4:01.50	GILBERT YOUNG	70	1:21.87	RAY TAFT	89	400 M. FREE M E N 75-79			50.55	R.CHAMBERLAIN	76
4:09.79	ELLIOTT SCHOFIELD	71	1:29.36	ANDREW HOLDEN	73	6:20.11	ALDO DA ROSA	93	51.00	MIKE OFFNER	79
4:16.30	RICHARD WOOD	71	1:31.44	RAYMOND TAFT	74	6:20.11	ALDO DA ROSA	75	53.83	GEORGE PITTS	75
4:20.43	BOB ACKER	72	1:32.60	JURGEN SCHMIDT	70	6:52.46	ROBERT JOHNSTON	76	55.66	WALTER WELLS	75
4:39.53	VAL OUCHAKOF	70	1:32.88	JOHN WOODS	70	7:04.19	BARNET PHILLIPS	75	55.68	AL VANDE WEGHE	77
50 M. BRST M E N 70-74			1:35.19	BOB MERRICK	73	7:10.99	NORRIS FLUKE	76	57.96	PAUL MENZIES	77
40.81	PAUL KRUP	89	1:49.39	WALLACE SAWHILL	74	7:17.55	DEXTER WOODFORD	79	100 M. BRST M E N 75-79		
43.25	TOM DOWELL	71	1:51.30	ALEX MCINTOSH	70	7:21.74	JERRY SIEFERT	75	1:37.39	ALDO DA ROSA	92
45.63	ABRASHA BRAININ	70	2:03.14	JAY CHARLES	71	7:26.69	GEORGE RAFTER	77	1:39.85	ALDO DA ROSA	75
45.73	BOB MERRICK	73	2:05.96	WALTER LYNCH	72	7:54.90	N.H. SKJERSAA	77	1:43.32	PAUL KRUP	76
46.02	RAYMOND TAFT	74	2:19.45	N HEDRICK	70	8:02.35	GENE CROSSETT	79	1:50.72	BRUD CLEVELAND	75
46.56	RICHARD AVERY	70	200 M. I.M. M E N 70-74			8:14.13	HENRY SHOSTCHUK	76	1:52.77	ROGER CHAMBERLAIN	75
47.32	ANDREW HOLDEN	73	3:08.13	RAY TAFT	89	800 M. FREE M E N 75-79			1:54.42	JERRY EVERALL	79
48.00	RICHARD KENNEDY	72	3:28.59	JURGEN SCHMIDT	70	13:15.02	ALDO DA ROSA	93	1:55.07	MIKE OFFNER	79
48.68	DONALD AGATE	72	3:29.80	RAYMOND TAFT	74	13:15.02	ALDO DA ROSA	75	1:59.68	GEORGE PITTS	75
48.87	R.E. LAVANTURE	71	3:40.74	GEORGE HUBBELL	74	14:30.84	NORRIS FLUKE	76	2:22.08	C.J. HAMILTON	79
49.43	JURGEN SCHMIDT	70	3:51.97	EARL WALTER	71	14:45.00	BARNET PHILLIPS	75	2:31.23	F.H. TILLOTSON	78
100 M. BRST M E N 70-74			3:52.66	RICHARD SMITH	73	15:23.33	DEXTER WOODFORD	79	2:51.58	R.H. FLETCHER	78
1:32.13	ALDO DA ROSA	88	3:56.09	DAVID MULLIKEN	74	16:29.01	N.H. SKJERSAA	77	200 M. BRST M E N 75-79		
1:43.66	BOB MERRICK	73	4:08.87	BOB ACKER	72	17:35.31	HENRY SHOSTCHUK	76	3:34.29	ALDO DA ROSA	93
1:46.55	TOM DOWELL	71	4:14.10	HERMAN FOREST	72	18:31.65	F.H. TILLOTSON	78	3:34.29	ALDO DA ROSA	75
1:47.53	ABRASHA BRAININ	70	4:40.20	VAL OUCHAKOF	70	18:53.34	GERALD MEYER	78	3:50.22	PAUL KRUP	76
1:49.45	RAYMOND TAFT	74	4:46.11	JOHN CRANCH	71	1500 M. FREE M E N 75-79			4:15.89	JERRY EVERALL	79
1:49.50	RICHARD AVERY	70	400 M. I.M. M E N 70-74			24:46.19	ALDO DA ROSA	93	4:17.91	MIKE OFFNER	79
1:55.91	R.E. LAVANTURE	71	6:50.27	RAY TAFT	89	24:46.19	ALDO DA ROSA	75	4:26.35	NELSON OTIS	77
1:59.84	KHOSROW SHADBEH	71	8:13.51	RICHARD SMITH	73	26:42.52	ROBERT JOHNSTON	76	4:32.96	BRUD CLEVELAND	75
2:00.24	EARL WALTER	71	8:16.31	CLARENCE WEBB	71	27:20.81	NORRIS FLUKE	76	4:48.09	DEXTER WOODFORD	79
2:00.27	TED SIMON	71	8:19.99	DAVID MULLIKEN	74	28:55.35	DEXTER WOODFORD	79	4:59.97	WALTER WELLS	75
2:01.22	WALTER LYNCH	71	8:46.41	BOB ACKER	72	29:44.05	JOHN MERRILL	76	5:04.51	C.J. HAMILTON	79
200 M. BRST M E N 70-74			9:00.08	ALEX MCINTOSH	70	40:40.89	R.H. FLETCHER	78	5:42.31	F.H. TILLOTSON	78
3:24.66	ALDO DA ROSA	88	9:15.61	HERMAN FOREST	72	50 M. BACK M E N 75-79			50 M. FLY M E N 75-79		
3:52.49	BOB MERRICK	73	10:11.62	VAL OUCHAKOF	70	41.93	EDWARD SHEA	92	40.81	PAUL KRUP	93
3:55.10	ABRASHA BRAININ	70	10:38.92	FRANK SCHURR	71	42.16	ALDO DA ROSA	75	40.81	PAUL KRUP	75
4:01.31	RICHARD AVERY	70	11:00.71	JAY CHARLES	71	42.99	WILLIAM ROWE	77	44.77	WILLIAM JOHNSTON	75
4:06.54	GEORGE HUBBELL	74	11:23.12	JAY BEELER	70	43.82	EDWARD SHEA	79	45.74	ALDO DA ROSA	75
4:12.99	TOM DOWELL	71	*****			44.64	HARRY LIBER	75	49.67	GEORGE RAFTER	77
4:17.54	KHOSROW SHADBEH	71	50 M. FREE M E N 75-79			46.05	BRION WINSHIP	75	1:06.11	WALTER WELLS	75
4:22.84	EARL WALTER	71	32.78	KELLEY LEMMON	88	49.58	AL VANDE WEGHE	77	1:13.56	GERALD MEYER	78
4:27.63	BERTIL SANDQUIST	72	35.34	JERRY SIEFERT	75	51.68	WILLIAM PATTEN	78	1:13.79	ERNIE OGILVIE	79
4:29.81	JACK BURGAN	71	35.44	LYNN SURLS	76	53.42	GEORGE PITTS	75	1:22.25	N.H. SKJERSAA	77
5:03.84	JAY CHARLES	70	35.83	WILLIAM JOHNSTON	75	53.71	JIM TRIOLO	79	1:29.38	MEL ANDERSON	75
50 M. FLY M E N 70-74			35.93	ALDO DA ROSA	75	54.05	FRANK TILLOTSON	78	1:49.78	MAX LUNA	78
36.09	ANDREW HOLDEN	90	37.96	HAM MORNINGSTAR	76	100 M. BACK M E N 75-79			100 M. FLY M E N 75-79		
37.14	JURGEN SCHMIDT	70	38.32	ALLAN DELAY	77	1:34.08	NORRIS FLUKE	93	1:36.80	PAUL KRUP	92
37.73	ANDREW HOLDEN	73	39.97	AL VANDE WEGHE	77	1:34.08	NORRIS FLUKE	76	1:44.19	PAUL KRUP	76
41.77	RAYMOND TAFT	74	40.04	BERNIE BERGMAN	76	1:38.51	ALDO DA ROSA	75	1:46.53	ALDO DA ROSA	75
48.08	TOM DOWELL	71	40.21	BRUD CLEVELAND	75	1:39.42	EDWARD SHEA	79	1:54.37	WILLIAM JOHNSTON	75
48.47	RICHARD SMITH	73	40.86	NED SMITH	78	1:44.38	BRION WINSHIP	75	200 M. FLY M E N 75-79		
49.67	ABRASHA BRAININ	70	100 M. FREE M E N 75-79			1:48.99	BILL WOOSLEY	76	3:49.00	PAUL KRUP	92
1:01.04	AL PALMER	70	1:15.94	KELLEY LEMMON	88	1:54.77	WILLIAM PATTEN	78	3:55.02	PAUL KRUP	76
1:02.11	N HEDRICK	70	1:22.57	JERRY SIEFERT	75	1:55.94	DICK WESTERFIELD	78	5:02.72	WILLIAM JOHNSTON	75
1:02.50	VAL OUCHAKOF	70	1:22.69	ALDO DA ROSA	75	1:56.30	ROGER CHAMBERLAIN	76	5:14.04	JOHN JOHNSTON	78
1:05.41	JAY CHARLES	71	1:30.43	ROBERT JOHNSTON	76	1:56.63	JIM TRIOLO	79	100 M. I.M. M E N 75-79		
100 M. FLY M E N 70-74			1:33.52	BRUD CLEVELAND	75	1:56.74	WILLIAM ROWE	77	1:32.84	ALDO DA ROSA	92
1:31.20	PAUL KRUP	89	1:35.85	HAM MORNINGSTAR	76	200 M. BACK M E N 75-79			1:41.26	ROGER CHAMBERLAIN	75
1:48.57	RAYMOND TAFT	74	1:35.88	ALLAN DELAY	77	3:27.82	EDWARD SHEA	91	1:41.79	PAUL KRUP	76
1:49.03	BOB MERRICK	73	1:36.19	BERNIE BERGMAN	76	3:29.59	ALDO DA ROSA	75	1:44.63	JERRY SIEFERT	75
1:50.11	RICHARD SMITH	73	1:37.47	DEXTER WOODFORD	79	3:37.42	EDWARD SHEA	79	1:48.89	BRUD CLEVELAND	75
2:00.70	DAVID MULLIKEN	74	1:37.70	BRION WINSHIP	75	3:40.30	HARRY LIBER	75	1:49.79	GEORGE RAFTER	77
2:00.82	ALEX MCINTOSH	70	1:39.01	LLOYD WALKER	77	3:45.96	BRION WINSHIP	75	1:50.06	WILLIAM JOHNSTON	75
2:12.54	JACK BURGAN	71	200 M. FREE M E N 75-79			3:49.01	WILLIAM ROWE	77	1:50.34	ROBERT JOHNSTON	76
2:16.27	HERMAN FOREST	72	2:55.63	KELLEY LEMMON	88	3:51.69	BILL WOOSLEY	76	2:05.94	DICK WESTERFIELD	78
2:26.45	VAL OUCHAKOF	70	3:03.69	ALDO DA ROSA	75	4:10.13	RICHARD GUIDO	76	2:08.12	PAUL MENZIES	77
2:48.68	JAY CHARLES	71	3:12.22	NORRIS FLUKE	76	4:12.43	JIM TRIOLO	79	2:11.57	F.H. TILLOTSON	78
2:50.87	FRANK SCHURR	71	3:14.95	ROBERT JOHNSTON	76	4:25.66	F.H. TILLOTSON	78	200 M. I.M. M E N 75-79		
200 M. FLY M E N 70-74			3:20.22	BARNET PHILLIPS	75	4:26.20	WILLIAM PATTEN	78	3:22.14	ALDO DA ROSA	92
3:31.97	ANTON CERER	89	3:21.81	RICHARD GUIDO	76	50 M. BRST M E N 75-79			3:30.11	ALDO DA ROSA	75

TOP TEN

SHORT COURSE METERS

3:33.53 NORRIS FLUKE 76	1:02.21 BERT KASSELL 80	100 M. FREE M E N 85-89	50 M. FREE M E N 90-94
3:43.33 PAUL KRUP 75	1:03.50 C.J. HAMILTON 80	1:41.46 GUS LANGNER 89	50.09 GUS LANGNER 93
3:57.49 JERRY SIEFERT 75	1:03.67 BILL MARQUETTE 84	2:06.28 JOHN MAXWELL 85	50.09 GUS LANGNER 90
4:04.21 GEORGE RAFTER 77	1:08.94 GEORGE BATKI 81	2:17.53 GUS LANGNER 89	100 M. FREE M E N 90-94
4:04.41 NELSON OTIS 77	1:32.28 RALPH TRACY 83	2:20.87 JOE KAUFMAN 88	1:58.42 GUS LANGNER 93
4:16.27 ROGER CHAMBERLAIN 76	100 M. BACK M E N 80-84	2:28.27 DON NEEFE 85	1:58.42 GUS LANGNER 90
4:26.05 WILLIAM JOHNSTON 75	1:50.89 HERB EISENSCHMIDT87	2:55.22 HAROLD HOFFMANN 85	200 M. FREE M E N 90-94
4:38.48 DICK WESTERFIELD 78	1:52.91 DAVE MARLBROUGH 80	200 M. FREE M E N 85-89	4:27.70 GUS LANGNER 93
4:41.97 JOHN JOHNSTON 78	2:04.14 WOODROW BOWERSOCK 80	3:48.20 GUS LANGNER 89	4:27.70 GUS LANGNER 90
400 M. I.M. M E N 75-79	2:05.62 WILLIAM GRANT 80	4:58.25 GUS LANGNER 89	400 M. FREE M E N 90-94
7:20.86 ALDO DA ROSA 92	2:15.11 JOHN GLENN 82	5:04.13 JOE KAUFMAN 88	8:50.65 GUS LANGNER 93
7:51.81 PAUL KRUP 75	2:21.34 DAVID MCAFEE 83	5:05.84 JOHN MAXWELL 85	8:50.65 GUS LANGNER 90
9:02.64 NELSON OTIS 77	2:22.13 BERT KASSELL 80	400 M. FREE M E N 85-89	1500 M. FREE M E N 90-94
9:36.59 WILLIAM JOHNSTON 75	2:24.19 C.J. HAMILTON 80	7:54.24 GUS LANGNER 88	51:43.20 PAUL SPANGLER 90
10:04.32 DICK WESTERFIELD 78	3:28.01 RALPH TRACY 83	11:20.55 JOHN MAXWELL 85	NO SWIMMERS
*****	200 M. BACK M E N 80-84	800 M. FREE M E N 85-89	50 M. BACK M E N 90-94
50 M. FREE M E N 80-84	4:01.12 HERB EISENSCHMIDT87	16:53.90 GUS LANGNER 88	1:15.84 GUS LANGNER 93
35.16 WOODROW BOWERSOCK93	5:14.57 JOHN GLENN 82	NO SWIMMERS	1:15.84 GUS LANGNER 90
35.16 WOODROW BOWERSOCK 80	50 M. BRST M E N 80-84	1500 M. FREE M E N 85-89	200 M. BACK M E N 90-94
39.32 GERSON SOBEL 83	55.32 JIM PENFIELD 89	32:20.20 GUS LANGNER 88	6:52.85 GUS LANGNER 93
41.96 BERT KASSELL 80	59.55 WOODROW BOWERSOCK 80	NO SWIMMERS	6:52.85 GUS LANGNER 90
42.05 WILLIAM GRANT 80	1:03.29 C.J. HAMILTON 80	50 M. BACK M E N 85-89	50 M. BRST M E N 90-94
43.85 ALLAN SACHS 80	1:04.09 JOHN GLENN 83	56.85 DAN DOTTERWEICH 93	1:20.92 GUS LANGNER 93
44.02 JOHN GLENN 82	1:08.73 BILL MARQUETTE 84	56.85 DAN DOTTERWEICH 85	1:20.92 GUS LANGNER 90
48.52 HERBERT HOWE 81	1:10.52 RUFUS CLARK 82	1:05.66 PETER JURCZYK 88	100 M. BRST M E N 90-94
49.03 ANDREW HAAPANEN 82	1:39.92 RAY O'CONNELL 80	1:07.78 HERB EISENSCHMIDT 86	3:01.95 GUS LANGNER 93
1:00.53 RAY O'CONNELL 80	100 M. BRST M E N 80-84	1:11.83 JOE KAUFMAN 88	3:01.95 GUS LANGNER 90
1:02.01 JOSEPH COSS 83	2:09.01 JIM PENFIELD 89	1:13.04 GUS LANGNER 89	
100 M. FREE M E N 80-84	2:26.20 C.J. HAMILTON 80	1:21.87 DON NEEFE 85	
1:20.65 WOODROW BOWERSOCK93	2:33.66 RUFUS CLARK 82	100 M. BACK M E N 85-89	
1:20.65 WOODROW BOWERSOCK 80	2:37.81 JOHN GLENN 83	2:09.91 DAN DOTTERWEICH 93	
1:42.49 DAVID MCAFEE 83	2:42.42 LARRY HART 81	2:09.91 DAN DOTTERWEICH 85	
1:42.73 C.B. SUNDERLAND 84	3:47.12 RAY O'CONNELL 80	2:15.47 JIM PENFIELD 85	
1:49.18 BERT KASSELL 80	200 M. BRST M E N 80-84	2:30.40 PETER JURCZYK 88	
1:49.69 ALLAN SACHS 80	5:03.34 WILLIAM SHARE 89	2:35.83 DON NEEFE 85	
1:52.62 JOHN GLENN 82	5:08.45 C.J. HAMILTON 80	2:35.97 JOE KAUFMAN 88	
2:06.70 RICHARD KANE 82	5:22.14 RUFUS CLARK 82	2:57.01 GUS LANGNER 89	
2:15.80 RAY O'CONNELL 80	6:23.17 JOHN GLENN 83	200 M. BACK M E N 85-89	
2:21.87 LARRY HART 81	50 M. FLY M E N 80-84	4:55.62 PETER JURCZYK 90	
2:24.85 JOSEPH COSS 83	49.08 JESSE COON 91	5:09.86 HERB EISENSCHMIDT 86	
200 M. FREE M E N 80-84	56.24 JESSE COON 82	5:21.74 JOE KAUFMAN 88	
3:22.37 GERSON SOBEL 91	56.30 WOODROW BOWERSOCK 80	6:06.66 DON NEEFE 85	
3:37.87 GERSON SOBEL 83	57.77 WILLIAM GRANT 80	6:07.40 GUS LANGNER 89	
3:39.61 HERBERT HOWE 81	1:03.59 D LEATHERMAN 81	50 M. BRST M E N 85-89	
3:43.52 WOODROW BOWERSOCK 80	1:16.89 RICHARD KANE 82	58.39 JIM PENFIELD 93	
3:52.18 C.B. SUNDERLAND 84	100 M. FLY M E N 80-84	58.39 JIM PENFIELD 85	
3:53.46 DAVID MCAFEE 83	2:07.29 JESSE COON 91	58.65 DAN DOTTERWEICH 85	
4:15.44 ANDREW HAAPANEN 82	2:27.75 JESSE COON 82	1:23.74 GUS LANGNER 89	
4:31.11 ALLAN SACHS 80	2:58.50 D LEATHERMAN 81	1:49.45 DON NEEFE 85	
4:39.63 RICHARD KANE 82	200 M. FLY M E N 80-84	1:50.09 HAROLD HOFFMANN 85	
5:01.68 JOHN GLENN 82	5:14.66 JESSE COON 91	100 M. BRST M E N 85-89	
5:28.30 JOSEPH COSS 83	5:19.05 JESSE COON 82	2:09.33 DAN DOTTERWEICH 93	
400 M. FREE M E N 80-84	100 M. I.M. M E N 80-84	2:09.33 DAN DOTTERWEICH 85	
7:30.51 HERBERT HOWE 92	1:53.59 HERB EISENSCHMIDT87	2:24.19 JIM PENFIELD 85	
7:44.17 WOODROW BOWERSOCK 80	2:03.81 WOODROW BOWERSOCK 80	2:59.74 GUS LANGNER 89	
8:05.75 C.B. SUNDERLAND 84	2:03.89 WILLIAM GRANT 80	200 M. BRST M E N 85-89	
8:07.89 HERBERT HOWE 81	2:15.46 BERT KASSELL 80	5:30.76 GUS LANGNER 88	
8:16.09 DAVID MCAFEE 83	200 M. I.M. M E N 80-84	NO SWIMMERS	
800 M. FREE M E N 80-84	4:36.38 HERB EISENSCHMIDT87	50 M. FLY M E N 85-89	
15:07.97 HERBERT HOWE 92	5:12.62 JESSE COON 82	1:04.75 JIM PENFIELD 93	
16:04.40 HERBERT HOWE 81	400 M. I.M. M E N 80-84	1:04.75 JIM PENFIELD 85	
16:58.06 WOODROW BOWERSOCK 80	9:25.63 HERB EISENSCHMIDT88	100 M. I.M. M E N 85-89	
17:00.37 DAVID MCAFEE 83	10:58.67 JESSE COON 82	2:15.66 JIM PENFIELD 93	
1500 M. FREE M E N 80-84	*****	2:15.66 JIM PENFIELD 85	
29:58.32 GUS LANGNER 86	50 M. FREE M E N 85-89	2:32.63 HERB EISENSCHMIDT 86	
NO SWIMMERS	43.86 DAN DOTTERWEICH 93	200 M. I.M. M E N 85-89	
50 M. BACK M E N 80-84	43.86 DAN DOTTERWEICH 85	5:02.31 HERB EISENSCHMIDT91	
45.89 DAVE MARLBROUGH 93	50.26 JOHN MAXWELL 85	NO SWIMMERS	
45.89 DAVE MARLBROUGH 80	56.26 JOE KAUFMAN 88	400 M. I.M. M E N 85-89	
51.86 WOODROW BOWERSOCK 80	56.87 DON NEEFE 85	10:47.13 HERB EISENSCHMIDT91	
53.53 WILLIAM GRANT 80	58.54 HERB EISENSCHMIDT 86	NO SWIMMERS	
1:01.43 JOHN GLENN 83	1:10.44 HAROLD HOFFMANN 85	*****	

TOP TEN

SHORT COURSE METERS

*****				120-159	BARBARA THOMPSON	47	NANCY KRANPITZ	48
RELAYS: WOMEN 200 M. FREE	R:ST LOUIS	89	1:58.02	PARRIS ISLAND	2:46.63	FRAN ZEUMER	73	
*****	SUSAN RICHMOND			DONNA HARVEY	35	DORIS KLITZKE	58	
76 - 99	CATHERINE KOHN			CAROLYN RADCLIFFE	43	RINCONADA	3:02.45	
R:UNIV HOUSTON	LESLIE COOPER	88	1:59.79	VICKI TRACY	37	PATSY WEISS	70	
PEGGY PLOUGH	JEANNE HANISCH			KAREN FADY	51	NAN BLACKLEDGE	69	
STACY JONES	ORLM		2:00.19	OJAI VALLEY RAC	2:48.66	SALLY SCHOLER	70	
JANE HALLENBECK	R.J. SEAMAN		35	CAROLE BORLAND	50	BOBBIE CALLISON	61	
SANDY JOHNSON	HEATHER O'BRIEN		30	CHERYL GARZA	40	SANTA BARBARA	3:03.24	
ORLM	ROSALIE CRETIN		30	LESLIE OGDEN	46	RUTH BAAR	70	
DANIELLE SIRBU	EILEEN HARTLE		32	ANA KASTING	43	SHIRLEY BAIRD	62	
AMANDA HALL	LAKESIDE		2:01.14	ORLM	2:53.16	GRACE ALTUS	69	
M.A. MCNIECE	SUSAN AUGUSTUS		26	CAROLYN GATTO	33	GAY COLLINS	63	
JODI RIES	MELINDA SCHMITT		35	NICOLE MISTELE	33	SAN DIEGO SWIM	3:03.41	
LAKESIDE	PAM MARTIN		36	ALYCE VOGEL	61	R.I TURCOTTE	66	
TRACY WEST	AMY POPE		33	PENNY POTTER	46	ALICIA COLEMAN	68	
KIMBERLY BARON	SAN DIEGO SWIM		2:01.57	HEARTLAND SWIM	3:03.18	DIANA SILVA	71	
PAMELA HAEBERLIN	KARLYN PIPES		31	MARILYN RAMEY	53	GINI BURNS	42	
SUZANNE HAWKINS	CATHY NEVILLE		36	TINA DANIELS	37	HEARTLAND SWIM	3:32.34	
	DIANE HOTZ		31	MARLEE VALDERHAUG	52	NANCY REED	66	
100-119	DIANNE GLEASON		28	CECILY MCNEIL	48	JUDY TILARO	58	
R:BAYLOR/L STAR	SAN DIEGO SWIM		2:01.87	BAMA MASTERS	3:12.29	ELFRIEDE LEHTO	60	
MICHELLE CHOW	MARILYN S FINK		38	FRANCES BELL	75	TRICH HUNTER	59	
JOANNA CAIN	DIANA DOLAN-EVANS		35	JULIE GOLDMAN	42	HOLMES LUMBER	3:36.62	
AMY LASKA	BARBARA DUNBAR		44	EMILY POAG	20	KAY MARTIN	56	
CAROL CARR	BETH KNIGHT		33	DIANNE BATSON	25	M.R. NEWMAN	69	
BAYLOR/L STAR	ARIZONA MASTERS		2:05.83			V.R. SULLIVAN	76	
MICHELLE CHOW	LISA SARTORI		28	200-239		RACHEL ERWIN	74	
JOANNA CAIN	JUDY GILLIES		45	R:TAMALPAIS	89			
AMY LASKA	RANE SMITH		29	ANGELA KONIG	2:11.64			
CAROL CARR	DIANNE WYGAL		27	LAVERNE ADAMS		280-319		
ROCKY MT	LONG BEACH SWIM		2:06.27	SHERRY RADEMACHER		R:HOLMES LUMBER	93	3:04.95
DANA DUTCHER	VERONICA HIBBEN		37	NANCY RIDOUT		FLORENCE CARR		
ELLEN ATKINSON	LUCY JOHNSON		46	SAN DIEGO SWIM	2:35.05	GERTRUD ZINT		
SHELLE BOTTA	MIMI FRANK		46	BETSY JORDAN	56	JUNE REYNOLDS		
KATHY GARNIER	S MUNATONES		29	ADRIENNE PIPES	59	JEAN BEERS		
HOLMES LUMBER	EMPIRE STATE		2:06.95	MARY SPENCER	57	HOLMES LUMBER	3:04.95	
SUDI MILLER	APRIL WELCH		26	SALLY KARRASCH	40	FLORENCE CARR	68	
SARAH WILLIAMS	FRAN HARE		43	RALEIGH AREA	2:44.85	GERTRUD ZINT	76	
GINA AGUILAR	JANE KATZ		50	DAWN STROUPE	55	JUNE REYNOLDS	71	
KATHY STEELE	JILL FRIEDMAN		36	SANDRA KREMER	57	JEAN BEERS	71	
ORLM	HOLMES LUMBER		2:08.66	ALICE JONES	55	ST LOUIS	3:29.21	
K.R.BRUNER-RAINEY	MAG BOWEN		35	CEIL BLACKWELL	53	EDITH HENDRY	82	
DEBRA HANSON	C.J. APICELLA		33	BOLT	3:06.93	CAROL TAYLOR	64	
J.L.VAN DER MOLEN	DEBRA GOODWYNE		31	CLAIRE ROACH	66	DORIS PETERS	70	
M.L. HELMBRECHT	KATHRYN WINE		41	BARBARA BOWER	55	JEAN SCHNORBUS	67	
SANTA CLARA	PARRIS ISLAND		2:10.63	VICKI BUCCINO	47			
TONI ROSS	JULIE WARNER		31	GEORGIANNA TUURI	44	320-359		
LESLIE REID	PAM DRAFTS		36	OJAI VALLEY RAC	3:09.41	R:ST PETE	93	4:09.37
ALISON BENKE	MARIA CHAPMAN		26	KITTY JOHNSTON	51	MARIAN MCKECHNIE		
DARBY ELLEMAN	TRACY SWOPE		31	DONNA LECHMAN	35	WIN KENNEDY		
EMPIRE STATE	ALHAMBRA MASTER		2:12.75	MALCHIA OLSHAN	62	FRANCES CICHANSKI		
AMEY LARMORE	KERRI NAUFUL		36	RUTH FARNHAM	63	KAY SCHIMPF		
CINDY REEDER	JAIMI LUMBERT		34	COLONIALS 1776	3:20.63	ST PETE	4:09.37	
PATICIA DEGROOT	ELAINE FONG		36	L.VAN REYMERSDAL	63	M.B. MCKECHNIE	89	
SARAH NEWMAN	JOAN VER HELEN		24	MARY ANN MCCLAIN	51	WIN KENNEDY	80	
FINS AQUATIC CL				DONNA BLATZ	48	F.E. CICHANSKI	76	
MICHELLE WENDT				CATHERINE FITCH	41	KAY SCHIMPF	76	
MERRILL HILF	160-199					*****		
JULIE SPAHN	R:DC MASTERS	89	2:01.10	240-279		RELAYS: WOMEN 200 M. MEDLEY		
ELIZABETH STORZ	SUSAN SKIFF			R:O*H*I*O	93	*****		
CRAW	BARBARA ZAREMSKI			LILLY KRON	2:45.73	76 - 99		
KAREN BASH	JAYNE BRUNER			PRUDY HALL		R:PACIFIC NW	90	2:22.24
MURIEL DOWNS	JACKI HIRSTY			NANCY WAITE		JULIE CORMAN		
CINDY HALE	RINCONADA		2:26.45	BETTY RUSS		BETH BRENNER		
JESS HULNIK	SUSAN SPRINGER		53	O*H*I*O MASTERS	2:45.73	STEFANI FERSCH		
RINCONADA	KATHY CARL		40	LILLY KRON	61	CAROL BROWN		
JAMIE NAFZIGER	BELINDA HERRING		28	PRUDY HALL	55	OREG	2:33.60	
YVONNE GALAXIDAS	KATHERINE BASS		42	NANCY WAITE	59	DEBBI ARMSTRONG	27	
YVETTE BOVEE	HEARTLAND SWIM		2:38.00	BETTY RUSS	66	M.MCCONNELL	25	
MARY MEDOFF	KELLI DOLE		35	WIS MASTERS	2:59.65	PIPPY VAUGHAN	19	
	LYNN MACDONALD		38	S.HASSELBACHER	67	DANA WAYRYNEN	22	
	CHRISTINE BIBY		46					

TOP TEN

SHORT COURSE METERS

100-119			C.J. APICELLA	33	JULIE GOLDMAN	42	HOLMES LUMBER	3:30.93
R:ARIZONA	92	2:16.25	ARIZONA MASTERS	2:29.83	ORLM	3:22.16	JUNE REYNOLDS	71
MONICA BAILEY			LISA SARTORI	28	LYDIA THAMES	38	GERTRUD ZINT	76
STACY COSTA			JUDY GILLIES	45	ALYCE VOGEL	61	FLORENCE CARR	68
RANE SMITH			DIANNE WYGAL	27	PENNY POTTER	46	JEAN BEERS	71
LISA SARTORI			RANE SMITH	29	NICOLE MISTELE	33	ST LOUIS	3:43.35
ROCKY MT		2:07.97NV	BERKELELY AQUAT	2:31.50	HEARTLAND SWIM	3:34.61	EDITH HENDRY	82
SHELLE BOTTA		27	LINDA KUHN	34	BARBARA THOMPSON	47	DORIS PETERS	70
ELLEN ATKINSON		29	JUDY LEE	43	MARILYN RAMEY	53	CAROL TAYLOR	64
LAURA VITCENDA		22	HEATHER SAYLOR	27	CAROL SING	52	JEAN SCHNORBUS	67
DANA DUTCHER		25	MARY WEST	29	MAUREEN MARKS	40	PNA	4:07.40
HOLMES LUMBER		2:16.27	LAKESIDE	2:34.15			MAXINE CARLSON	73
SUDI MILLER		26	JEAN RUEFF	35	200-239		PATRICIA DOTSON	66
KATHY STEELE		29	WENDY MEDLEY	39	R:TAMALPAIS	89	MARION MUELLER	81
GINA AGUILAR		34	PAM HAEBERLIN	30	LAVERNE ADAMS		PAT MATTHIESEN	77
SARAH WILLIAMS		29	DIANE BLYTHE	30	NANCY RIDOUT			
ORLM		2:23.05	PNA	2:41.18	SHERRY RADEMAKER			
M.A. KELLER		29	PAULA TERHAAR	41	ANGELA KONIG		320-359	
C.C. KIRSTEN		29	MARY CASSAR	30	LAKESIDE	3:07.50	R:ST PETE	93
K.R.BRUNER-RAINEY		28	LIB RUST	34	MARY JANE MULLINS	62	FRANCES CICHANSKI	
J.L.VAN DER MOLEN		26	ANNAMARIE TERHAAR	32	HELEN MURPHY	44	WIN KENNEDY	
EMPIRE STATE		2:38.36	ELMWOOD SHARKS	2:41.23	CAROL FERGUSON	62	KAY SCHIMPF	
CATHERINE REDSON		31	JOAN JOHNSON	32	MARY ANN STONE	60	MARIAN MCKECHNIE	
MICHELE HUYETTE		25	ALLISON LANDRY	23	RALEIGH AREA	3:10.78	ST PETE	4:55.62
MARCY YEISLEY		25	CAROL LEVIN	32	CEIL BLACKWELL	53	F.E. CICHANSKI	76
SONJA HUBBERT		30	SHELLEY SCHUBACH	43	DAWN STROUPE	55	WIN KENNEDY	80
EMPIRE STATE		2:38.71			ALICE JONES	55	KAY SCHIMPF	76
CINDY REEDER		31	160-199		SANDRA KREMER	57	M.B. MCKECHNIE	89
SARAH NEWMAN		20	R:D. C. MASTERS	89	COLONIALS 1776	3:33.65	*****	
KRISTIN SZAK		27	SUSAN SKIFF	2:19.83	L.VAN REYMERSDAL	63	RELAYS: WOMEN 400 M. FREE	
AMEY LARMORE		30	JOANN LEILICH		MARY ANN MCCLAIN	51	*****	
CRAW		2:42.44	JAYNE BRUNER		DONNA BLATZ	48	76 - 99	
JESS HULNIK		22	JACKI HIRSTY		CATHERINE FITCH	41	R:LONGHORN	90
PAIGE HARPER		27	SAN DIEGO SWIM	2:22.34	BOLT	3:46.95	LESLIE MANN	
MURIEL DOWNS		25	BETSY JORDAN	56	BARBARA BOWER	55	ALICE HORN	
CINDY HALE		34	KARLYN PIPES	31	GEORGIANNA TUURI	44	SUE LAMB	
PARRIS ISLAND		2:46.75	BARBARA DUNBAR	44	CLAIRE ROACH	66	MARLO KIPE	
MARIA CHAPMAN		26	MARILYN AS FINK	39	MAXINE PIERCE	41	NO RELAY TEAMS	
TRACY SWOPE		31	EMPIRE STATE	2:31.83				
Laurie Sperry		29	JANE KATZ	50	240-279		100-119	
JULIE WARNER		31	JILL FRIEDMAN	36	R:ST LOUIS	92	R:LONG BEACH	93
			FRAN HARE	43	REGAN KENNER	2:52.00	JILL KEENAN	
			KAREN FARNSWORTH	37	CAROL TAYLOR		JILL MATTHEWS	
120-159			ST PETE	2:43.51	ARDETH MUELLER		VERONICA HIBBEN	
R:ST LOUIS	89	2:13.77	LISA FLANAGAN	30	JEAN SCHNORBUS		S.MUNATONES	
CATHERINE KOHN			SANDY STEER	54	SAN DIEGO SWIM	3:15.58	LONG BEACH SWIM	4:25.85
JEANNE HANISCH			JAYNE LAMBKE	54	DIANA SILVA	71	JILL KEENAN	24
SUSAN RICHMOND			TISH OLEKSY	31	ALICIA COLEMAN	67	JILL MATTHEWS	21
LESLIE COOPER			INLAND EMPIRE	2:47.61	BETSY JORDAN	56	VERONICA HIBBEN	37
SAN DIEGO SWIM		2:17.05	CAROLYN KENT	47	R.I TURCOTTE	65	S MUNATONES	29
KARLYN PIPES		31	KATIE BLANK	45	HEARTLAND SWIM	4:07.18	HEARTLAND SWIM	4:26.56
DIANE HOTZ		31	MARGARET HAIR	37	NANCY REED	66	VICKY DAVIDSON	29
CATHY NEVILLE		36	CINDY CLUTTER	33	ELFRIEDE LEHTO	60	HEATHER WOLFENDEN	24
JUDY NELSON		32	ROCKY MT.	2:55.16	JUDY TILARO	58	KELLI DOLE	35
ORLM		2:20.44	SUSAN NOLTE	31	TRICH HUNTER	59	REBECCA JACKMAN	30
DEBRA HANSON		30	ELLA CARMICHAEL	69	O*H*I*O MASTERS	4:07.30	FINS AQUATIC CL	5:13.04
EILEEN HARTLE		32	JUDY REED	48	LUISE EASTON	54	JULIE SPAHN	29
ROSALIE CRETIN		30	LAURA SKOTNICKI	39	BETTY KAKOS	61	MICHELLE WENDT	27
HEATHER O'BRIEN		30	GISA	3:13.14	DAR FERGUSON	64	ELIZABETH STORZ	29
ST LOUIS		2:20.98	AMY BURTON	28	RUTH WUNDERLICH	74	MERRILL HILF	33
LESLIE COOPER		33	SUSAN HEWETT	50	RALEIGH AREA	5:25.51		
SUSAN RICHMOND		32	GLENDIA KENNELLY	50	BETTE HOFFMANN	74	120-159	
CINDY ECKENRODE		31	DIANE SIDNER	33	JUDY KELLY	68	R:SAN DIEGO	89
LORI PAYNE		34	PARRIS ISLAND	3:13.26	BUZ CATLIN	79	BARBARA DUNBAR	
HEARTLAND SWIM		2:21.85	CAROLYN RADCLIFFE	43	GERRY SPEAKER	55	CATHY NEVILLE	
VICKY DAVIDSON		29	DONNA HARVEY	35			DIANA DOLAN-EVANS	
LYNN MACDONALD		38	VICKI TRACY	37	280-319		MARILYN FINK	
KELLI DOLE		35	KAREN FADY	51	R:HOLMES LUMBER	93	EMPIRE STATE	5:28.83
HEATHER WOLFENDEN		24	BAMA MASTERS	3:21.76	JUNE REYNOLDS	3:30.93	LAUREN O'BRIEN	27
HOLMES LUMBER		2:29.72	FRANCES BELL	75	GERTRUD ZINT		MARCY YEISLEY	25
MAG BOWEN		35	EMILY POAG	20	FLORENCE CARR		LINDA AKAMINE	38
DEBRA GOODWYNE		31	DIANNE BATSON	25	JEAN BEERS		SONJA HUBBERT	30
KATHRYN WINE		41					WILD	5:52.03

TOP TEN

SHORT COURSE METERS

JEAN TURNER	44	TRISH HUNTER	59	ALISON BENKE	22				
GAIL O'MALLEY	38	ANN MARTIN	64	LAKESIDE	5:53.79	280-319			
KERRY WALLACE	23	ELFRIEDE LEHTO	60	JEAN RUEFF	35	R:SAN MATEO	92	8:16.37	
JEANNIE JOHNSON	32			MELINDA SCHMITT	35	NANCY BARNES			
HEARTLAND S A M	5:53.04	280-319		MARY GRAVES	37	MAUDENE SCHULTZ			
KELLI DOLE	34	R:SAN MATEO	92	7:26.27	KIMBERLY BARON	20	ZADA TAFT		
DIANE MENDOZA	32	AUDREY ETIENNE		HEARTLAND SWIM	6:21.01	AUDREY ETIENNE			
STACY JOHNSON	30	M.KNOCHENHAUER		LYNN MACDONALD	38	NO RELAY TEAMS			
CECILY MC NEIL	47	MAUDENE SCHULTZ		TINA DANIELS	37	*****			
LOUY	5:59.31	ZADA TAFT		REBECCA JACKMAN	30	RELAYS: WOMEN 800 M. FREE			
LETHA GOODRICH	25	PNA	9:19.61	KAREN SIMPSON	34	*****			
SALLIE DILAURA	35	MAXINE CARLSON	73	RINCONADA	6:42.90	76 - 99			
VICKI CATLIN	48	PAT MATTHIESEN	77	YVETTE BOVEE	31	R:SPACE COAST	87	10:55.74	
DANA FRANKS	20	MARION MUELLER	81	WENDY VELASQUEZ	28	LISA SIDOR			
		JANET KAVADAS	62	MARY MEDOFF	34	CHERIE HUTMAN			
160-199		*****		NANCY NAGEL	30	SUE MATSCHNER			
R:SAN DIEGO	93	RELAYS: WOMEN 400 M. MEDLEY				ROBERTA MILANDER			
MARILYN FINK		*****		160-199		LAKESIDE	11:16.43		
BETSY JORDAN		76 - 99		R:LOS ALTOS	93	TRACY WEST	19		
DIANA DOLAN-EVANS		R:EMPIRE STATE	91	5:07.60	AIMEE LEHR	KIMBERLY BARON	20		
BARBARA DUNBAR		DEANNA COLACITO			SUSAN ROY	SUSAN AUGUSTUS	26		
SAN DIEGO SWIM	4:40.73	MONICA LEE			LAURA VAL	SUZANNE HAWKINS	25		
MARILYN S FINK	38	CHERYL KUPAN			CAROLYN BOAK				
BETSY JORDAN	56	KRISTIN BROOKS		LOS ALTOS	5:00.90	100-119			
D. DOLAN-EVANS	35	INLAND EMPIRE	5:36.18	AIMEE LEHR	26	R:AIR FORCE	91	9:48.14	
BARBARA DUNBAR	44	SUSAN GAMBREL	26	SUSAN ROY	45	KIMBERLY ARATA			
EMPIRE STATE	5:01.63	CHERESE EDER	21	LAURA VAL	41	KAREN BURTON			
JANE KATZ	50	MONICA WEAVER	22	CAROLYN BOAK	48	ANNA PLANTIER			
JILL FRIEDMAN	36	NANCY KYLE	25	RINCONADA	6:31.13	JUDY HUPP			
PATRICIA ROBISON	38			KATHERINE BASS	41	EMPIRE STATE	9:55.22		
FRAN HARE	43	100-119		JUDITH SCHWARTZ	39	MARCY YEISLEY	25		
INLAND EMPIRE	5:27.82	R:EMPIRE STATE	93	4:58.61	SUSAN SPRINGER	CATHERINE REDSON	31		
CAROLYN KENT	47	MIKO MCGINTY			KATHY DAY	MARIE-H. CHARLAP	33		
CINDY CLUTTER	33	CHERYL KUPAR				MARCIA CLEVELAND	29		
KATIE BLANK	45	CATHERINE REDSON		200-239		EMPIRE STATE	10:39.68		
MARGARET HAIR	37	MARCIA CLEVELAND		R:SAN DIEGO	90	LISA WEINSTEIN	29		
INLAND EMPIRE	7:16.33	EMPIRE STATE	4:58.61	SUSAN RITTENHOUSE	6:16.07	KATHLEEN SWIFT	33		
OPAL OLSON	47	MIKO MCGINTY	22	ADRIENNE PIPES		JENNIFER JACOBS	25		
AMINA GILES	40	CHERYL KUPAN	29	BARBARA DUNBAR		APRIL WELCH	26		
VALERIE HOLMAN	49	CATHERINE REDSON	31	JANET LAMOTT		HEARTLAND S A M	10:43.41		
TAMARA HEDIN	33	MARCIA CLEVELAND	29	ST PETE	6:59.80	DIANE MENDOZA	32		
200-239		LOUY	6:11.04	B.J. TUCKER	58	VICKY DAVIDSON	28		
R:SAN DIEGO	90	LETHA GOODRICH	25	J.G. PIPER	56	STACY JOHNSON	30		
ADRIENNE PIPES		SALLIE DILAURA	35	ELAINE BROMWICH	50	REBECCA JACKMAN	29		
LAURA MELDRUM		DANA FRANKS	20	SANDY STEER	54	EMPIRE STATE	11:22.32		
SUSAN RITTENHOUSE		SHAWN O'BANNON	33	HEARTLAND S A M	7:28.24	CINDY REEDER	31		
JANET LAMOTT				MARLEE VANDERHAUG	51	PATRICIA DEGROOT	30		
ST PETE	6:44.88	120-159		MARILYN RAMEY	52	JUDITH WHITING	34		
ELAINE BROMWICH	50	R:EMPIRE STATE	92	4:53.87	VIRGINIA BENDIK	SARAH NEWMAN	20		
MARGIE HUTINGER	53	KAREN FARNSWORTH			JUDY TILARO				
B.J. TUCKER	58	ROBIN MOLESE		0*H*I*O MASTERS	7:44.41	120-159			
SANDY STEER	54	CHERYL KUPAN		LUISE EASTON	54	R:SAN DIEGO	93	9:35.71	
O*H*I*O MASTERS	6:55.02	COLLEEN DRISCOLL		BETTY KAKOS	61	JUDY NELSON			
LUISE EASTON	54	SAN DIEGO SWIM	5:05.01	PRUDENCE HALL	54	MARY ELLEN ANDERS			
PRUDENCE HALL	54	MARILYN S FINK	38	NANCY WAITE	58	DIANE HOTZ			
NANCY WAITE	58	DIANA DOLAN-EVANS	35			KARLYN PIPES			
BETTY KAKOS	61	BARBARA DUNBAR	44	240-279		SAN DIEGO SWIM	9:35.71		
HEARTLAND SWIM	7:19.54	BETH KNIGHT	33	R:ST LOUIS	92	JUDY NELSON	32		
CAROL SING	52	MOUNTAIN VIEW	5:35.21	REGAN KENNER		MARY ELLEN ANDERS	33		
MARILYN RAMEY	53	LISA AKERMAN	35	CAROL TAYLOR		DIANE HOTZ	31		
BARBARA THOMPSON	47	MO CHAMBERS	35	ARDETH MUELLER		KARLYN PIPES	31		
ELFRIEDE LEHTO	60	JULIE PAQUE	35	JEAN SCHNORBUS		LAKESIDE	9:45.41		
		SUSAN FODEN	40	LAKESIDE	7:42.23	JEAN RUEFF	35		
240-279		WILD	5:45.46	MARY JANE MULLINS	62	MELINDA SCHMITT	35		
R:ST LOUIS	92	JEANNIE JOHNSON	32	CAROL FERGUSON	62	PAM MARTIN	36		
JEAN SCHNORBUS		MEG SMATH	37	JOYCE VOIT	59	AMY POPE	33		
CAROL TAYLOR		KERRY WALLACE	23	MARY ANN STONE	60	LONG BEACH SWIM	10:04.71		
ARDETH MUELLER		SUSAN BRADLEY-COX	56	RINCONADA	7:56.70	S MUNATONES	29		
CHERYL CORBETT		SANTA CLARA	5:47.30	NAN BLACKLEDGE	68	LUCY JOHNSON	46		
HEARTLAND S A M	8:09.47	ALMA GUIMARIN	34	PATSY WEISS	70	JILL MATTHEWS	21		
NANCY REED	66	DARBY ELLEMAN	33	BOBBIE CALLISON	61	JILL KEENAN	24		
		TONI ROSS	34	SALLY SCHOLER	70	SAN MATEO	11:21.40		

TOP TEN

SHORT COURSE METERS

VAL DUNN	43	EMPIRE STATE	1:42.93	NV	MOOK RHODENBAUGH		BRUCE ALLEN	34
DONNA DUNN	45	NEIL LEVI	26		BOBBY PATTEN		THOMAS MEEHAN	46
NITSA SWAIN	35	BENJAMIN ROYE	22		HOLMES LUMBER	1:39.49	JERSEY MASTERS	1:59.02
KARA MABRY	25	HENRY BUCKINGHAM	26		JACK MCKEAN	29	KOELLHOFFER	43
		KEVIN YAO	22		CRIS WILLIAMS	32	JERRY KATZ	55
160-199		ATOM	2:00.25		JOHN BLACK	30	ROBERT BORYSKO	35
R:SAN DIEGO	93 10:10.40	ANDY NIX	25		THOMAS PEEK	46	CHUN LIEU	36
MARILYN FINK		RODNEY SELLARS	27		ST PETE	1:41.38	ROCKY MT.	1:59.79
BETSY JORDAN		DAN MCSHANE	23		TIM MCGINNIS	35	RUSS MARSH	37
DIANA DOLAN-EVANS		CHANDLER SNYDER	20		J.T. SALOMON	32	JOHN HUTCHINSON	44
BARBARA DUNBAR					WILLIAM SPECHT	35	CHRIS NOLTE	36
SAN DIEGO SWIM	10:10.40	100-119			BRIAN VAILE	31	MARK PLUMMER	56
MARILYN S FINK	38	R:EMPIRE STATE	93 1:36.03		ORLM	1:41.64	ELMWOOD SHARKS	2:00.85
BETSY JORDAN	56	JOHN MIRANDA			M.T. SHEPARDSON	33	STEPHEN DAMON	41
D.D DOLAN-EVANS	35	MORK MARILLEY			L.J. MEISENHEIMER	36	BOB REIMERS	50
BARBARA DUNBAR	44	BRUCE MACDONALD			H.(III) A.BRINKER	32	DAVID MINOR	45
EMPIRE STATE	11:27.63	ERIK OSBORN			C.D. MILTENBERGER	42	C CHARRIER	27
JANE KATZ	50	EMPIRE STATE	1:36.03		CRAW	1:46.48	CRAW	2:03.79
DAWN YOUNG	45	JOHN MIRANDA	28		WADE RIDDICK	23	PAUL HEBERT	47
PATICIA ROBISON	38	MARK MARILLEY	25		STEVE HECK	44	JEFF NELSON	37
JILL FRIEDMAN	36	BRUCE MACDONALD	23		AARON ALTURA	30	CLARKE MITCHELL	61
SAN MATEO	12:27.63	ERIC OSBORN	25		NEIL HARPER	28	PAUL DANIELS	44
ROSEMARY MCNALLY	45	BAYLOR/L STAR	1:36.15		VENICE MASTERS	1:46.48	LAKESIDE	2:05.29
JANIS SMITH	42	GREG RHODENBAUGH	30		DAN BORTON	25	JOHN O'NEILL	37
MARCIE KOTTMEIER	33	ROBERT KILLEEN	31		DAVID KOCKER	35	CHARLES CARTER	41
DALE FINCH	43	BOBBY PATTEN	30		DAVID KASTIGAR	29	DAVID BUTTERY	35
HEARTLAND S A M	15:54.68	MOOK RHODENBAUGH	28		BRUCE STAHL	35	ROBERT RUEFF	47
CHRISTINE BIBY	45	SANTA CLARA	1:39.19		LONG BEACH SWIM	1:46.61	INLAND EMPIRE	2:05.33
TINA DANIELS	36	SERGEY MARINIUK	24		BERT BERGEN	26	MIKE LITTLE	37
CECILY MC NEIL	47	CAMERON REID	33		MICHAEL HEATHER	39	BILL TRAVIS	45
ANN MARTIN	64	MIKE MOORE	30		BRUCE HOWELL	37	LAMAR LONG	43
		DAN KUTLER	23		JEFFREY BERRY	35	DAVE BARNES	38
200-239		ORLM	1:45.21		SAN DIEGO SWIM	1:48.28	MICHIGAN	2:05.48
R:SAN DIEGO	90 12:44.99	F.CHARMFOROOSH	27		LUKE SALERNO	26	JOHN JOHNSTON	46
GINI BURNS		BARRY CRETIN	29		RICHARD UHRLAUB	35	RALPH DAVIS	46
BARBARA DUNBAR		CHRIS BRANCATO	22		DARRELL RUCKER	35	CHARLES MAAS	59
ADRIENNE PIPES		PAUL ROBINSON	26		ALAN VOISARD	33	GERALD LADUE	44
DIANA SILVA		HOLMES LUMBER	1:46.39		GEORGIA MASTERS	1:48.40		
HEARTLAND SWIM	15:13.53	JEFF POPPELL	23		TOM NORTH CUTT	27	200-239	
CAROL SING	52	ROBERT HARMS	23		JOE CLARK	33	R:LOS ALTOS	89 1:48.34
MARILYN RAMEY	53	WALTER STEELE	29		JON JOHNSON	27	ROBERT PROEBSTING	
JUDY TILARO	58	KEVIN MCWEENEY	27		DON MARTZ	37	EDWARD CAZALET	
ELFRIEDE LEHTO	60	ARIZONA MASTERS	1:49.91		ELMWOOD SHARKS	1:49.49	JOHN RICHARDS	
		TONY BATHEY	30		GLEN HANSEN	28	DICK THOMAS	
240-279		MATT DUKE	22		KEN HAVA	41	SAN DIEGO SWIM	2:06.62
R:SAN DIEGO	92 13:34.12	JOSEPH LINEBARIER	26		JOSEPH TORCZON	30	J STEPHEN MOSELEY	55
SUSAN RITTENHOUSE		JIM STITES	36		RONALD MURLIN	26	PETER RIDDLE	55
BOBBI TURCOTTTE		SAN DIEGO SWIM	1:50.76		PALMETTO MASTER	1:49.91	LLOYD SKRAMSTAD	59
DIANA SILVA		ERIC NEILSEN	27		HUGH WILDER	46	DONALD UHLIR	36
BETSY JORDAN		KEVIN PIERCE	28		DAVID PARLER	37	ORLM	2:08.93
NO RELAY TEAMS		KEITH MASON	31		JEFF SAEGER	26	C.R. ISELIN	50
		JAY GOLDSCHMIDT	27		JOE SHAKE	35	GEORGE MANN	55
280-319		BERKELEY AQUATI	1:51.87				VICTOR SIRBU	56
R:ST. LOUIS	91 15:49.09	KEN FITCH	28		160-199		C.E. WEATHERBEE	60
CAROL TAYLOR		RICH CALLAGHAN	31		R:SWAM	91 1:41.93	HEARTLAND SWIM	2:11.63
DORIS PETERS		CLAYTON BOGUSKY	34		CHRIS MACCURDY		BRUCE MENZIES	44
EDITH HENDRY		JAMES OKANE	25		RIC NESBIT		DAVID SZUCH	50
ANNALOU CARRIER		HEARTLAND SWIM	1:53.31		JERRY HEIDENREICH		RONALD WILLIAMSON	55
SAN MATEO	16:29.17	RANDALL EICKHOFF	28		BRYAN AUSTIN		MIKE PHILLIPS	51
AUDREY ETIENNE	77	JEFF REILLY	32		HOLMES LUMBER	1:54.37	HOLMES LUMBER	2:12.29
M.KNOCHENHAUER	66	BRIAN COLETY	26		BILL PILLMORE	45	WALTER ABSTEIN	51
NANCY BARNES	64	CHRISTOPHER SELBY	19		JOHN CONLON	37	BILL RODENFELS	51
ZADA TAFT	74	RALEIGH AREA	1:53.32		WILLIAM MRAZEK	39	TELFAIR MAHAFFY	57
*****		DAN FUCH	36		MARK EBEL	45	M.E. D'ANGELO	47
RELAYS: M E N 200 M. FREE		ANDY FARRELL	23		EMPIRE STATE	1:56.23	GEORGIA MASTERS	2:15.53
*****		JIM WELZEN	22		MICHAEL O'CONNOR	46	SAMY NAGUIB	39
76 - 99		STEVE WEATHERMAN	37		CHARLES CARSON	39	ELMER SCHNITZER	65
R:MICHIGAN	92 1:43.64				WILLIAM MATSON	38	JACK MITCHELL	65
MICHAEL BELL		120-159			PHILIP MCBRAIN	40	JOHN ZEIGLER	47
STUART NIXON		R:BAYLOR/LONESTAR	92 1:37.89		WIS MASTERS	1:58.02	HEARTLAND SWIM	2:19.02
JIM WALLACE		RICHARD HESS			DICK PITMAN	49	DOUGLAS SELBY	48
DAN BEATTY		DOUG MOYSE			DAVID JANDA	36	WILLIAM GRACEY	52

TOP TEN

SHORT COURSE METERS

GENE SAPPER	64	320-359		DC AQUATIC CLUB	2:10.14	PALMETTO MASTER	2:03.95
RUDOLPH SAPPER	60	R:LONG BEACH	93 3:04.75	DREW FITZMORRIS	33	HUGH WILDER	46
RINCONADA	2:27.15	BRION WINSHIP		GLENN MLAKER	26	JOE SHAKE	35
AUGUST MOTMANS	66	JOHN GLENN		DAVID CORAY	31	DAVID PARLER	37
C.FAIRCHILDS	68	DON NEEFE		ROBERT WASILOWSKI	28	JEFF SAEGER	26
KENNETH MALLON	28	WOODROW BOWERSOCK		HEARTLAND SWIM	2:12.50	OREG	2:04.31
ALDO DA ROSA	75	LONG BEACH MAST	3:04.75	STEVEN SAPPER	35	JOHN ZELL	36
WIS MASTERS	2:28.27	BRION WINSHIP	75	JEFF REILLY	32	STEPHEN HARGER	33
THOMAS MICHELSON	62	JOHN GLENN	83	RANDALL EICKHOFF	28	MARK WREN	34
JOHN BAUMAN	63	DON NEEFE	85	CHRISTOPHER SELBY	19	EDWARD MANN	35
HARLAN DRAKE	65	WOODROW BOWERSOCK	80	RALEIGH AREA	2:13.53		
DAVID FARRELL	38	*****		STEVE WEATHERMAN	37	160-199	
INDUSTRY HILLS	2:40.82	RELAYS: M E N 200 M. MEDLEY		JIM VANWELZEN	22	R:SWAM	91 1:55.51
PAUL PARAMO	31	*****		DAN FUCH	36	CHRIS MACCURDY	
MAX LUNA	78	76 - 99		ANDY FARRELL	23	RIC NESBIT	
JIM STEWART	52	R:GIMSA	93 1:58.31	COASTAL CAROLIN	2:19.16	JERRY HEIDENREICH	
PAUL HO	53	NOAH BIRMELIN		BRANDON FLICKNER	20	BRYAN AUSTIN	
		JASON TIMMONS		MATT TRENER	22	EMPIRE STATE	1:59.59
240-279		TODD TRAPPE		KEN WRIGHTER	26	BOB KOLONKOWSKI	45
R:SAN DIEGO	88 2:07.70	TAZ GREINER		GLEN HANSON	39	MATTHEW CLARK	37
ANDREW HOLDEN		GISA	1:58.31	PARRIS ISLAND	2:26.97	CRAIG SAINT-AMOUR	40
FRED WADSWORTH		NOAH BIRMELIN	19	ERIC NORDLUND	29	JOHN NEEDHAM	40
GORDON GILLIN		TODD TRAPPE	24	JEFFREY SHELDON	34	LONG BEACH SWIM	2:05.82
WILLIAM PHILLIPS		JASON TIMMONS	26	ALAN GREENWOOD	27	MICHAEL HEATHER	39
SAN DIEGO SWIM	2:10.38	TAZ GREINER	21	RUDY JANICZEK	27	BRUCE HOWELL	37
BILL EARLEY	57	BOLT	2:05.87			CHUCK BABCOCK	53
JOHN GOODE	60	L SCHMITT	25	120-159		JAMES KRISS	44
WILLIAM PHILLIPS	65	ROBERT FRITSCHER	25	R:GCWP	89 1:50.73	ORLM	2:11.90
DONALD BAKER	62	TYRANO DIAZ	19	BRIAN GOODELL		C.D. MILTENBERGER	42
ORLM	2:17.86	RICK KELLY	21	SCOTT BECKER		DAVID WESLEY	41
JORGE LENSE	34	EMPIRE STATE	2:08.49	JAY HERSEY		WM. KYLE ADAMS	45
N.H. SKJERSAA	77	JULIAN PEPLOE	24	LYLE NALLI		HARRY WESSEL	44
JIM CONGER	73	ALEXANDER HALL	22	ST PETE	1:54.98	HOLMES LUMBER	2:12.78
GUY MCCANN	60	DAKE GONZALEZ	22	J.T. SALOMON	32	BILL PILLMORE	45
RALEIGH AREA	2:19.50	JOHN SPEER	23	BRIAN VAILE	31	DAVID GAULDIN	42
C.LEBOURGEOIS	59	ATOM	2:08.52	WILLIAM SPECHT	35	MARK EBEL	45
PHIL EISENHART	50	ANDY NIX	25	TIM MCGINNIS	35	WILLIAM MRAZEK	39
DUDLEY DEAN	68	CHANDLER SNYDER	20	STROKE MASTERS	2:00.27	ROSE BOWL	2:13.23
DICK WEBBER	64	KEVIN DUGAN	27	JACK BRETTHWAITE	39	WALTER HITCH	41
BOLT	2:36.71	RODNEY SELLARS	27	KRIS WEIMERSKIRCH	35	JOHN PEARCE	34
ELMER FROST	70			PETER LAITI	34	FRED SCHLICHER	45
N HEDRICK	70	100-119		ROBERT CARTER	36	STEPHEN SAYLOR	51
RICHARD DANIEL	67	R:ROSENBERG	88 1:52.59	CRAW	2:00.83	SAN BERNARDINO	2:14.99
MILTON ERNST	35	CLIFFORD SPENCER		NEIL HARPER	28	BOB BEST	61
HOLMES LUMBER	2:39.31	JOSEPH GREENWELL		STEVE HECK	44	FRANK MCKINLEY	31
PETER DONOHUE	34	JOHN ANDARY		AARON ALTURA	30	MICHAEL MURPHY	33
RICHARD AVERY	70	MICHAEL DUSWALT		WADE RIDDICK	23	JOE ERICKSON	37
BRUD CLEVELAND	75	HOLMES LUMBER	1:53.48	LAKESIDE	2:01.26	WIS MASTERS	2:15.20
F.H. TILLOTSON	78	JACK BLACK	30	WILLIAM TINGLEY	43	THOMAS MEEHAN	46
COLONIALS 1776	3:24.38	CRIS WILLIAMS	32	CHRIS BURKLE	36	DAVID JANDA	36
MATTHEW SCHWARTZ	28	JACK MCKEAN	29	SAM BLYTHE	34	DICK PITMAN	49
J.VAN REYMERSDAL	65	JEFF POPPELL	23	TED LEE III	36	DAVID FARRELL	38
HUGH COYLE	73	ORLM	1:56.83	NEWPORT/COSTA	2:01.26	ARIZONA MASTERS	2:15.64
RICHARD TAYLOR	75	PAUL ROBINSON	26	PAUL O'BRIEN	30	DAVID GOLDNER	51
		F.CHARMFOROOSH	27	JIM IACOMETTI	29	ROBERT LEWIS	50
280-319		DANIEL HAYES	29	DON HAVENS	46	TONY BATHEY	30
R:OREGON	90 2:13.84	CHRIS BRANCATO	22	CLIFFORD AMSDEN	36	JIM STITES	36
EARL WALTER		SAN DIEGO SWIM	1:59.23	GEORGIA MASTERS	2:02.05	LAKESIDE	2:16.68
FORBES MACK		ALAN VOISARD	33	TOM NORTHCUTT	28	MARK PETRY	36
GERALD HUESTIS		LUKE SALERNO	26	DON MARTZ	37	TONY AMBROSE	48
ANDREW HOLDEN		KEVIN PIERCE	28	REED FARRIS	38	ADRIAN PELLEGRINI	36
LONG BEACH MAST	3:05.22	JAY GOLDSCHMIDT	27	JOE CLARK	33	T.M.WATHEN	46
WOODROW BOWERSOCK	80	BERKELEY AQUATI	2:04.58	VENICE MASTERS	2:02.19	GISA	2:17.67
DON NEEFE	85	KEN FITCH	28	DAVID KASTIGAR	29	JERRY MYERS	55
JOHN GLENN	82	RICH CALLAGHAN	31	BRUCE STAHL	35	RICHARD SIDNER	44
EMILE ACHEE	66	CLAYTON BOGUSKY	34	TERENCE YOUNG	28	MICHAEL SULLIVAN	39
BOLT	3:41.86	JAMES OKANE	25	DAVID KOCKER	35	PETER MOWRY	33
MIKE OFFNER	79	ORANGE COAST	2:08.90	ROCKY MT	2:03.45		
MAURICE STERN	77	RONALD BLANC	26	MICHAEL GIVOT	26	200-239	
FRED FAUCHEUX	72	CHRIS SLAYMAN	22	D.REEDER	26	R:LOS ALTOS	89 2:02.44
ED STREETER	69	LARRY TESDALL	32	S.CHAPMAN	36	DICK THOMAS	
		RICHARD BLANC	27	JAMIE LOUIE	36	THOMAS BOAK	

TOP TEN

SHORT COURSE METERS

ROBERT PROEBSTING		THOMAS MICHELSON	62	HEARTLAND SWIM	4:17.53	DOUGLAS TENNANT	
JOHN RICHARDS		HARLAN DRAKE	65	RANDALL EICKHOFF	28	WILLIAM TINGLEY	
SAN DIEGO SWIM	2:18.05	COLONIALS 1776	3:16.65	JEFF REILLY	32	LAKESIDE	4:38.01
BILL EARLEY	57	MATTHEW SCHWARTZ	28	BRIAN COLETY	26	ROBERT RUEFF	47
PETER RIDDLE	55	J.VAN REYMERSDAL	65	CESAR ROMERO	33	WILLIAM TINGLEY	43
DARRELL RUCKER	35	HUGH COYLE	73	LA MESA MASTERS	4:23.99	T.M.WATHEN	46
J STEPHEN MOSELEY	55	RICHARD TAYLOR	75	TORBERT SHIPLEY	30	THOMAS FINNEGAN	47
HOLMES LUMBER	2:27.91	BOLT	3:18.55	KEVIN MCKENZIE	38	INLAND EMPIRE	4:38.06
WALTER ABSTEIN	51	MILTON ERNST	35	JORGE SELF	21	BILL TRAVIS	44
PAUL NICHOLS	42	MIKE OFFNER	79	JOHN LAPP	25	JOHN SAHLIN	41
THOMAS KOENIG	61	RICHARD DANIEL	67			GEORGE JOHNSON	44
BILL RODENFELS	51	ELMER FROST	70	120-159		MIKE LITTLE	37
BOLT	2:30.34			R:NEWPORT-COSTA 93	3:48.90	EMPIRE STATE	4:44.82
DICK BOWER	63	280-319		JIM IACOMETTI		PATRICK GALLAGHER	40
GREG BORDES	36	R:OREGON 90	2:36.92	BRENDAN HALFFMAN		CHARLES RILEY	39
HUGH FLEMING	43	EARL WALTER		PAUL O'BRIEN		TIMOTHY WHITESIDE	40
R RODRIGUE	59	FORBES MACK		DON HAVENS		JOHN GOODWIN	45
GEORGIA MASTERS	2:32.46	ANDREW HOLDEN		NEWPORT COSTA	3:48.90	LONG BEACH SWIM	5:00.39
JACK MITCHELL	66	GERALD HUESTIS		JIM IACOMETTI	29	MARK GILLOGLY	40
JOHN ZEIGLER	45	HOLMES LUMBER	2:56.81	BRENDAN HALFFMAN	24	MARTIN ORTIZ	41
JON JOHNSON	27	F.H. TILLOTSON	78	PAUL O'BRIEN	30	CHUCK BABCOCK	53
ELMER SCHNITZER	65	BRUD CLEVELAND	75	DON HAVENS	46	JAMES KRISS	44
ORLM	2:33.91	TELFAIR MAHAFFY	57	LONG BEACH SWIM	3:55.19	LAKESIDE	5:14.22
C.E. WEATHERBEE	60	RICHARD AVERY	70	BERT BERGEN	26	WODDY TURRENTINE	45
VICTOR SIRBU	56			STEPHEN MCADAMS	20	STEVE AUDENAERT	37
C.R. ISELIN	50	320-359		MICHAEL HEATHER	39	JOHN O'NEILL	37
GEORGE MANN	55	R:LONG BEACH 93	4:04.37	BRUCE HOWELL	37	CHARLES CARTER	41
CRAW	2:41.98	LIONEL PEREIRA		EMPIRE STATE	3:58.80	MICHIGAN MASTER	5:14.45
CLARKE MITCHELL	61	JOHN GLENN		MATTHEW DAVIE	24	THOMAS MOYER	45
ALFRED BOUDREAUX	35	WOODROW BOWERSOCK		ALBERT WINSLOW	33	DONALD KROEGER	49
PAUL DANIELS	44	DON NEEFE		JOHN NEEDHAM	40	LAWRENCE THOMPSON	62
TONY VITALE	72	LONG BEACH MAST	4:04.37	STEVEN FISHER	31	KEVIN WHITE	34
HEARTLAND SWIM	2:54.01	LIONEL PEREIRA	83	PNA	4:06.46		
RUDOLPH SAPPER	60	JOHN GLENN	83	PAUL SHERMAN	30	200-239	
GENE SAPPER	64	WOODROW BOWERSOCK	80	LEN MC COLLAM	35	R:OREGON 91	4:30.16
CESAR ROMERO	33	DON NEEFE	85	TOM SEIFTS	27	ROBERT SMITH	
BRUCE MENZIES	44	*****		CRAIG MALLERY	31	ERIC GUEST	
PNA	3:08.52	RELAYS: M E N 400 M. FREE		HEARTLAND S A M	4:09.57	TOM FANNING	
EUGENE HUNN	50	*****		LARRY TAGGESELL	40	RICHARD BOYD	
HUGH JAMES	52	76 - 99		JERRY O'MARA	46	HEARTLAND SWIM	5:02.27
ROBERT GRIFFITH	51	R:DAVIS 90	3:53.01	CHARLES HARTJE	33	BRUCE MENZIES	44
ROLLIE ROBERTS	58	MIKE HUARD		RON SCHAFFER	35	DAVID SZUCH	50
INLAND EMPIRE	3:32.07	VINCENT LANE		SAN DIEGO SWIM	4:10.93	MIKE PHILLIPS	51
DAVE WEEKS	44	SCOTT ERBA		DARRELL RUCKER	35	RONALD WILLIAMSON	55
C.J. HAMILTON	79	TODD BAILY		DONALD UHLIR	36	O*H*I*O MASTERS	5:25.28
ROD WHARTON	36	EMPIRE STATE	4:06.32	ERIC NEILSEN	27	PHIL WILLIAMSON	60
SID ROSEN	72	BENJAMIN ROYE	22	DAVID VANNICE	36	STEVE HAMILTON	58
		KEVIN YAO	22	CHBS	4:12.11	BRUCE ALLEN	46
240-279		HENRY BUCKINGHAM	26	EDWARD BELL	40	MIKE O'DONNELL	38
R:GREATER INDIANA89	2:21.09	BRUCE MACDONALD	23	JIM GRUBBS	39	PNA	6:48.84
JOHN DILLEY				DAVE RUBENSTEIN	39	EUGENE HUNN	50
DOUGLAS SCOTT		100-119		JEFF HOGG	28	HUGH JAMES	52
MEL GOLDSTEIN		R:LONGHORN 90	3:55.59	EMPIRE STATE	4:14.63	ROLLIE ROBERTS	58
DICK WEBBER		CARL DUFFY		MARK TOBIN	32	ROBERT GRIFFITH	51
ST PETE	2:23.88	MICHAEL GIRDO		MARK QUIGLEY	35		
PAUL HUTINGER	68	MARK STOHRER		BUCK BROKER	37	240-279	
PETER BETZER	51	ANDERS RASMUSSEN		BRAD COLE	35	R:SAN DIEGO 93	4:41.25
THOMAS SMITH	66	EMPIRE STATE	4:03.79	EMPIRE STATE	4:18.99	BILL EARLEY	
HAROLD FERRIS	62	ROBERT VALENTIN	23	WILLIAM MATSON	38	KENNETH KIMBALL	
SAN DIEGO SWIM	2:41.44	BILL SULLIVAN	32	MICHAEL SHEREN	30	WILLIAM PHILLIPS	
JOHN GOODE	60	RAY CULLOM	28	ROBERT WATSON	27	DON BAKER	
LLOYD SKRAMSTAD	59	MICHAEL RITTER	30	MAXTONE-GRAHAM	34	SAN DIEGO SWIM	4:41.25
DONALD BAKER	62	ARIZONA MASTERS	4:07.85	FINS AQUATIC CL	4:19.77	BILL EARLEY	56
KENNETH KIMBALL	63	TONY BATHEY	30	JOHN CIGLER	34	KEN KIMBALL	63
RALEIGH AREA	2:44.82	JIM STITES	36	MICHAEL FERENS	29	WILLIAM PHILLIPS	65
DUDLEY DEAN	68	MATT DUKE	22	JAMES ROBLES	27	DON BAKER	62
PHIL EISENHART	50	JOSEPH LINEBARIER	26	DAVID LAFONTAINE	32	ST PETE	5:17.90
C.LEBOURGEOIS	59	EMPIRE STATE	4:10.92			RAY BURNS	58
DICK WEBBER	64	JULIAN PEPLOE	24	160-199		C.H. KOHNKEN	62
WIS MASTERS	2:53.43	TIM BAROS	29	R:LAKESIDE 92	4:00.88	DUDLEY DEGROOT	66
W MORGAN BYERS	66	MICHAEL CUSACK	29	JOHN NOLAN		HAROLD FERRIS	62
JOHN BAUMAN	63	JOHN SPEER	23	THOMAS FINNEGAN		INLAND EMPIRE	6:16.23

TOP TEN

SHORT COURSE METERS

BOB OLSON	51	RINCONADA	4:32.66	LAKESIDE	5:32.10	ALEXANDER HALL	22
WILFORD DOLPHIN	67	BILL OLIVER	32	WILLIAM TINGLEY	43	JOHN SPEER	23
BILL OVERHOLSER	54	FRED FARLEY	39	CHARLES CARTER	41	ROBERT VALENTIN	23
BILL ODMAN	73	STEVE LONGERBEAM	28	ROBERT RUEFF	47		
INLAND EMPIRE	7:03.91	JAMES WANDERER	27	THOMAS FINNEGAN	47	100-119	
DAVE WEEKS	44	EMPIRE STATE	4:34.26	WILD	5:32.65	R:SOUTH BAY	91 8:32.67
CHUCK TASCA	47	MATTHEW O'GRADY	33	BRADFORD REX	33	FRANK BIRD	
SID ROSEN	72	PAUL BENIT	27	JERRY ROBERTS	46	ROBERT EBERWINE	
C.J. HAMILTON	79	MATTHEW CLARK	37	DAVID HAMILTON	46	SCOTT SOUTHRON	
		BRAD COLE	35	NORM AHLGRIM	52	BRIAN KELCA	
280-319		WEST HOLLYWOOD	4:59.06	MICHIGAN MASTER	6:07.99	EMPIRE STATE	8:50.35
R:OREGON	91 5:27.45	BRUCE HATTON	36	THOMAS MOYER	45	IZHAR HARPAZ	25
EARL WALTER		SCOTT CHARNEY	31	DONALD KROEGER	49	BRUCE MACDONALD	23
GIL YOUNG		ERROL GRAHAM	34	LAWRENCE THOMPSON	62	WILLIAM COSSOLIAS	31
ANDREW HOLDEN		JORGE ALATORRE	29	KEVIN WHITE	34	HENRY BUCKINGHAM	26
FORBES MACK		HEARTLAND SWIM	5:21.20			LONG BEACH SWIM	9:43.43
ST PETE	6:05.25	DOUGLAS SELBY	48	200-239		MICHAEL STOKES	30
PAUL HUTINGER	68	STEVEN SAPPER	35	R:LOS ALTOS	93 4:45.92	SCOTT NASH	31
KERMIT HOTVEDT	78	BRIAN COLETY	26	ED CAZALET		JEFF MARTIN	26
ROBERT ATWOOD	73	BRUCE MENZIES	44	TOM BOAK		BERT BERGEN	26
THOMAS SMITH	66	RINCONADA	5:23.55	ROBERT PROEBSTING		SAN DIEGO SWIM	9:46.39
		HOWARD WOLF	37	DAVE GRAY		KEVIN PIERCE	28
320-359		JOHN JAY	36	LOS ALTOS	4:45.92	ERIC NEILSEN	27
R:LONG BEACH	93 7:54.68	JEFF REGAN	33	ED CAZALET	51	JAY GOLDSCHMIDT	27
WOODROW BOWERSOCK		KEN MALLON	28	TOM BOAK	50	DAVID VANNICE	36
JOHN GLENN		LAKESIDE	5:37.08	ROBERT PROEBSTING	56	HEARTLAND SWIM	11:08.06
DON NEEFE		MARK PETRY	36	DAVE GRAY	47	CHRISTOPHER SELBY	19
LIONEL PEREIRA		STEVE AUDENAERT	37	SAN DIEGO SWIM	5:57.08	RON SCHAFFER	36
LONG BEACH MAST	7:54.68	ADRIAN PELLEGRINI	36	BILL EARLEY	57	DOUG SAPPER	30
WOODROW BOWERSOCK	80	RUSSELL WILLIAMS	34	J STEPHEN MOSELEY	55	BRIAN COLETY	26
JOHN GLENN	83	LOUY	5:55.07	JOHN GOODE	60		
DON NEEFE	85	DAVID MORROW	42	WILLIAM PHILLIPS	65	120-159	
LIONEL PEREIRA	83	PATRICK MICHAEL	38	HEARTLAND SWIM	6:06.90	R:HEARTLAND	91 8:41.77
*****		JEFF MATTHIAS	44	MIKE PHILLIPS	51	CHARLES HARTJE	
RELAYS: M E N 400 M. MEDLEY		S.LINTZENICH	34	DAVID SZUCH	50	JEFF REILLY	
*****		MOUNTAIN VIEW	5:59.69	RONALD WILLIAMSON	55	LEE MENCH	
76 - 99		WAI-SZE TAM	31	WILLIAM GRACEY	52	RANDALL EICKHOFF	
R:DAVIS	90 4:56.13	JEFF WONG	29			SAN DIEGO SWIM	8:57.61
DAN BURGER		CHRIS CAMPBELL	32	240-279		DARRELL RUCKER	35
GADI REVIVO		DAN DUNBAR	39	R:SAN MATEO	93 5:25.95	DONALD UHLIR	36
FRED RAMSING				RAY TAFT		CHRIS HUXLEY	26
VINCENT LANE				STANLY PANKO		ALAN VOISARD	33
NO RELAY TEAMS				BILL STEUART		EMPIRE STATE	9:09.87
				DICK PETERSON		ALBERT WINSLOW	33
100-119		160-199		SAN MATEO	5:25.95	BILL SULLIVAN	32
R:SOUTH BAY	91 4:21.93	R:OREGON	93 4:21.80	RAY TAFT	74	STEPHEN GALLAGHER	31
SCOTT SOUTHRON		ROBERT SMITH		STAN PANKO	55	MICHAEL RITTER	30
BRIAN KELCA		ALLEN STARK		BILL STEUART	57	EMPIRE STATE	11:15.22
CHUCK PONTHER		MATT ROTH		DICK PETERSON	56	TIMOTHY WHITESIDE	40
MICHAEL CASEY		TOM COFFEY				PATRICK GALLAGHER	40
SAN DIEGO SWIM	4:41.77	OREG	4:21.80	280-319		CHARLES RILEY	39
DARRELL RUCKER	35	ROBERT SMITH	49	R:OREGON	91 6:25.20	JACK CURRY	40
ERIC NEILSEN	27	ALLEN STARK	44	EARL WALTER			
KEVIN PIERCE	28	MATHEW ROTH	26	BOB MORRISON		160-199	
JAY GOLDSCHMIDT	27	TOM COFFEY	42	ANDREW HOLDEN		R:MINNESOTA	92 8:58.69
HEARTLAND SWIM	4:51.25	CHBS	4:34.97	FORBES MACK		PETE MAGEE	
DAVID SAPPER	39	DAN BEHR	48	RINCONADA	7:30.21	PAUL WINDRATH	
JEFF REILLY	32	DAVE RUBENSTEIN	39	AUGUST MOTMANS	66	NATE LEIGH	
RANDALL EICKHOFF	28	JIM GRUBBS	39	ALDO DA ROSA	75	JIM STEWART	
CHRISTOPHER SELBY	19	EDWARD BELL	40	C.FAIRCHILDS	68	MICHIGAN	9:00.72
EMPIRE STATE	5:12.92	RINCONADA	4:54.33	PAT KELLER	74	WILLIAM REID	42
BRADLEY MYERS	33	JOHN SELMER	48	*****		CHRIS WEBB	42
ALEX BLAVATNIK	29	BILL LORTON	51	RELAYS: M E N 800 M. FREE		FRANK THOMPSON	41
IZHAR HARPAZ	25	GARY GIBSON	35	*****		LEONARD BROCKHAHN	42
MARK WARNSMAN	25	KIRK KOSLOWSKI	35	76 - 99		HEARTLAND S A M	10:25.87
		CHBS	5:00.47	R:EMPIRE STATE	93 8:56.41	LEE MENCH	40
120-159		JOHN GRAHAM	47	TONY MEINDL		STEVE MC KINLEY	42
R:BERKELEY	92 4:23.91	LAWRENCE HUNT	46	ALEXANDER HALL		JIM BOLLMAN	40
MARTY PFINSGRAPH		THOMAS MESTER	42	JOHN SPEER		BRUCE MENZIES	43
BENN DOYLE		JEFF HOGG	28	ROBERT VALENTIN		LAKESIDE	11:00.38
ROB COPELAND		INLAND EMPIRE	5:25.51	EMPIRE STATE	8:56.41	MARK PETRY	36
TOM LAWSON		STEVE OMI	36	TONY MEINDL	25	TONY AMBROSE	48
		BILL TRAVIS	45				
		DAVE BARNES	38				
		LAMAR LONG	43				

TOP TEN

SHORT COURSE METERS

ADRIAN PELLEGRINI	36	AMANDA HALL	24	R:HOLMES LUMBER	93	1:47.96	PARRIS ISLAND	2:06.27
T.M.WATHEN	46	DANIELLE SIRBU	19	JACK MCKEAN			PAM DRAFTS	36
LAKESIDE	11:27.60	CHRIS BRANCATO	22	SUDI MILLER			MARIE CHAPMAN	31
DAVID BUTTERY	35	RALEIGH AREA	1:57.04	GINA AGUILAR			DAVID PAINTER	55
ROBERT RUEFF	47	JIM VANWELZEN	22	CRIS WILLIAMS			PAUL KENT	38
CHARLES CARTER	41	SHARON BARRELL	32	HOLMES LUMBER	1:47.96		HOLMES LUMBER	2:06.33
JOHN O'NEILL	37	LINDSAY NATA	19	JACK MCKEAN			THOMAS PEEK	46
		ANDY FARRELL	23	SUDI MILLER			C.J. APICELLA	33
200-239		ATOM	1:59.67	GINA AGUILAR			DEBORAH MOORE	44
R:CONNECTICUT	92	MELINDA FINLEY	27	CRIS WILLIAMS			MARK EBEL	45
RONALD MOLNAR		ANDY NIX	25	ROCKY MT.	1:50.54		DAC	2:09.68
DANIEL DAVIS		DEBBIE MARTEL	26	RUSS MARSH			MARSHA HENIG	46
MICHAEL LAUX		CHANDLER SNYDER	20	CHIP ELLIS			BOB BRUNER	54
JACK GEOGHEGAN				SHELLE BOTTA			HEIDI BOESTLER	46
NO RELAY TEAMS				ELLEN ATKINSON			JOE SANDERS	45
		100-119		LONG BEACH SWIM	1:53.43		HOLMES LUMBER	2:11.26
240-279		R:ALASKA	89	BERT BERGEN			BILL PILLMORE	45
R:SAN MATEO	93	L.HASSELQUIST		MICHAEL HEATHER			SANDRA POWELL	46
DICK PETERSON		BRUCE JONES		LUCY JOHNSON			KATHRYN WINE	41
RAY TAFT		JANE PARIS		S MUNATONES			WILLIAM MRAZEK	39
STAN PANKO		TOM ROTH		ST PETE	1:53.52		ELMWOOD SHARKS	2:14.66
BILL STEUART		SAN DIEGO SWIM	1:51.07	BRIAN VAILE			SHELLEY SCHUBACH	43
SAN MATEO	10:57.81	JAY GOLDSCHMIDT	27	LISA FLANAGAN			LINZY ROSMAN	40
DICK PETERSON		KARLYN PIPES	31	TISH OLEKSY			ROBERT BAGNETTO	33
RAY TAFT		DIANNE GLEASON	28	TIM MCGINNIS			DAVID MINOR	45
STAN PANKO		ALAN VOISARD	33	ROCKY MT.	1:54.27		BAMA MASTERS	2:18.72
BILL STEUART		SANTA CLARA	1:51.25	KATHY GARNIER			GERRY WARREN	46
SAN DIEGO SWIM	12:03.13	DARBY ELLEMAN	33	KARLA SEAY			ALEC WHEELER	48
BILL EARLEY		SERGEY MARINIUK	24	BOB TVEITMOE			JULIE GOLDMAN	42
DONALD HUBBARD		TONI ROSS	34	ARNIE DOWD			DIANNE BATSON	25
JERRY SIEFERT		JAMES PARRACK	26	MOUNTAIN VIEW	1:57.01		ORLM	2:19.41
DON BAKER		ORLM	1:52.68	ANDREW PETERS			C.R. ISELIN	50
		BARRY CRETIN	29	CHRIS CAMPBELL			NICOLE MISTELE	33
		DEBRA HANSON	30	JULIE PAQUE			J.M. NATION	31
280-319		K.R.BRUNER-RAINEY	28	LISA AKERMAN			GEORGE MANN	55
R:OREGON	93	PAUL ROBINSON	26	GEORGIA MASTERS	1:57.75		HEARTLAND SWIM	2:20.98
ANDREW HOLDEN		HOLMES LUMBER	1:53.97	TOM NORTHCUTT			GEORGE DALL	38
FORBES MACK		JOHN BLACK	30	LISA BENN			RUDOLPH SAPPER	60
EARL YOUNG		SARAH WILLIAMS	29	AMY GROSSMAN			LYNN MACDONALD	38
GIL YOUNG		KATHY STEELE	29	JOE CLARK			MARILYN RAMEY	53
OREG	13:40.53	WALTER STEELE	29	RINCONADA	1:58.41		200-239	
ANDREW HOLDEN		WEST COAST AQUA	1:54.71	JIM WANDERER			R:LINCOLN	89
FORBES MACK		LISA KIM	25	KATHY DAY			PAUL HUTINGER	
EARL WALTER		MELISSA LUM	27	CHRIS KANAZAWA			IRENE DAVID	
GILBERT YOUNG		DAVID DOUR	28	GARY GIBSON			COLLEEN MALMEN	
		GERALD BADDING	27	ORLM	1:58.61		RAY PADOVAN	
		HOLMES LUMBER	1:55.33	JAMES MOORE			LOS ALTOS	2:15.94
320-359		JEFF POPPELL	23	ROSALIE CRETIN			TOM BOAK	50
R:LONG BEACH	93	MAG BOWEN	35	HEATHER O'BRIEN			KRISTINA KING	46
DON NEEFE		ROBERT HARMS	23	H.A.BRINKER			JAY CRADDOCK	72
BRION WINSHIP		DEBRA GOODWYNE	31	BOLT	1:59.01		KAMRIN DESMOND	36
JOHN GLENN		VENICE MASTERS	1:55.82	MARY SHARP			MICHIGAN	2:18.08
WOODROW BOWERSOCK		LARA FORMAN	24	DONNA RUSSELL			BEVERLY MYERS	58
LONG BEACH MAST	17:58.81	DAVID KASTIGAR	29	HUGH FLEMING			FREDERICKA RAPP	49
DON NEEFE		MICHELE MELENDEZ	21	TYRANO DIAZ			DONALD KROEGER	49
BRION WINSHIP		BRUCE STAHL	35				THOMAS MOYER	46
JOHN GLENN		AIR FORCE AQUAT	1:57.95				SAN DIEGO SWIM	2:20.98
WOODROW BOWERSOCK		PETER HUISVELD	42				J STEPHEN MOSELEY	55
*****		BRIAN MEADE	22	160-199			BETSY JORDAN	56
RELAYS: MIXED 200 M. FREE		KELLY LAZERSON	32	R:GREATER INDIANA89	1:50.55		BILL EARLEY	57
*****		JARA FATOUT	23	BILL VICKERY			SALLY KARRASCH	40
76 - 99		UNIVERSITY CIRC	2:00.68	SHARON WISE			ST PETE	2:22.87
R:ANCIENT MARINR	93	MARK ASSEL	30	SALLY HASBROOK			JAYNE LAMBKE	54
BRIAN CRILLY		LANCE VERNON	30	BILL WOOD			HAROLD FERRIS	62
JILL RODDIN		SHELLEY MASON	29	PALMETTO MASTER	1:58.02		SANDY STEER	54
TRACY CRILLY		SUSIE RABIAH	26	JAN PESAVENTO			GARY TRIMBLE	50
JEFFREY RODDIN		CRAW	2:00.72	KATIE MCNAMARA			RINCONADA	2:25.30
ANCM	1:51.87	NEIL HARPER	28	HUGH WILDEK			BOBBIE CALLISON	61
BRIAN CRILLY		JESS HULNIK	22	JOE SHAKE			SUSAN SPRINGER	55
JILL RODDIN		KAREN BASH	30	RINCONADA	2:02.66		AUGIE MOTMANS	66
TRACEY CRILLY		WADE RIDDICK	23	FRED FARLEY			JOHN JAY	36
JEFFREY RODDIN				KATHERINE BASS				
ORLM	1:55.85			REBECCA PINTO				
F.CHARMFOROOSH		120-159		JOHN SELMER				

TOP TEN

SHORT COURSE METERS

RALEIGH AREA	2:25.87	RUTH BILLARD		ALAN ARATA		JACK GROSELLE	38
C.LEBOURGEOIS	59	GUS LANGNER		KIMBERLY ARATA		KARL KAZMAIER	37
CEIL BLACKWELL	53	HOLMES LUMBER	2:47.83	KIRK CLRAR		JENNIFER SAVAGE	27
ALICE JONES	55	RICHARD AVERY	70	SAN DIEGO SWIM	2:07.04	ORLM	2:06.30
PHIL EISENHART	50	GERTRUD ZINT	76	KARLYN PIPES	31	H.A.BRINKER	32
ORLM	2:26.17	FLORENCE CARR	68	ALAN VOISARD	33	C.D. MILTENBERGER	42
VICTOR SIRBU	56	BRUD CLEVELAND	75	ERIC NEILSEN	27	HEATHER O'BRIEN	30
C.E. WEATHERBEE	60	SAN DIEGO SWIM	2:50.31	DIANNE GLEASON	28	EILEEN HARTLE	32
PENNY POTTER	46	JERRY SIEFERT	75	ORLM	2:09.92	LONG BEACH SWIM	2:10.27
LYDIA THAMES	38	C.B SUNDERLAND	84	PAUL ROBINSON	26	MICHAEL HEATHER	39
BOLT	2:27.48	DIANA SILVA	71	C.C. KIRSTEN	29	BERT BERGEN	26
LISA MOSS	29	R.I TURCOTTE	66	F.CHARMFOROOSH	27	VERONICA HIBBEN	37
VICKI BUCCINO	47	ST LOUIS	2:54.56	M.A. KELLER	29	LUCY JOHNSON	46
ELMER FROST	70	ANNALOU CARRIER	73	HEARTLAND SWIM	2:11.92	CRAW	2:10.84
DICK BOWER	63	DORIS PETERS	70	VICKY DAVIDSON	29	STEVE HECK	44
HEARTLAND SWIM	2:28.78	DON SERY	69	REBECCA JACKMAN	30	PAIGE HARPER	27
DAVID SAPPER	39	ROBERT BLAKE	68	RANDALL EICKHOFF	28	NEIL HARPER	28
MIKE PHILLIPS	51	RINCONADA	3:08.93	BRIAN COLETY	26	JESS HULNIK	22
JUDY TILARO	58	ALDO DA ROSA	75	HOLMES LUMBER	2:12.30	PARRIS ISLAND	2:12.37
MARLEE VALDERHAUG	52	KATHERINE BAILEY	70	JEFF POPPELL	23	ERIC NORDLUND	29
ROCKY MT.	2:35.13	C.FAIRCHILDS	68	DEBRA GOODWYNE	31	ALAN GREENWOOD	27
ALAN CARMICHAEL	67	NAN BLACKLEDGE	69	ROBERT HARMS	23	PAM DRAFTS	36
MARK PLUMMER	56	LONG BEACH MAST	3:09.55	MAG BOWEN	35	JULIE WARNER	31
ELLA CARMICHAEL	69	EMILE ACHEE	66	HOLMES LUMBER	2:13.92	ORLM	2:12.60
LAURA SKOTNICKI	39	LOUIS GIBERSON	73	WALTER STEELE	29	J.L.VAN DER MOLEN	26
		MADELEINE MILLER	83	KATHY STEELE	29	MICHEAL MINYON	33
		MAXINE MERLINO	81	JACK BLACK	30	K.R.BRUNER-RAINEY	28
240-279		HOLMES LUMBER	3:17.65	SARAH WILLIAMS	29	L.J. MEISENHEIMER	36
R:LOS ALTOS	92 2:12.98	TELFAIR MAHAFFY	57	VENICE MASTERS	2:14.29	DAC	2:14.48
JOHN RICHARDS		JUNE REYNOLDS	71	TERI ELLIS	25	DANA DUTCHER	25
JAY CRADDOCK		F.H. TILLOTSON	78	TERENCE YOUNG	28	ERIK PETERSON	25
DELLA SEHORN		RACHEL ERWIN	74	DAVID KASTIGAR	29	JOE SANDERS	45
LAURA VAL		OJAI VALLEY RAC	3:39.52	MICHELE MELENDEZ	21	BECCA LAWSON	28
SAN DIEGO SWIM	2:39.54	RUTH RIDENOUR	78	ATOM	2:14.95	ROCKY MT.	2:15.77
LLOYD SKRAMSTAD	59	JENNIE TAYLOR	76	DEBBIE MARTEL	26	BOB TVEITMOE	40
ADRIENNE PIPES	59	JOHN MELVILLE	73	CHANDLER SNYDER	20	ARNIE DOWD	47
MARY SPENCER	57	BOYD FORD	68	KEVIN DUGAN	27	KARLA SEAY	28
WILLIAM PHILLIPS	65			MELINDA FINLEY	27	KATHY GARNIER	32
WALNUT CREEK	2:42.64			ORLM	2:15.45		
DONNA MONROE	60	320-359		DEBRA HANSON	30	160-199	
MIKE MILLIMAN	59	R:SAN MATEO	92 3:48.82	BARRY CRETIN	29	R:GREATER INDIANA89	2:07.18
JAE HOWELL	71	MARGARET KEIL		ROSALIE CRETIN	30	SALLY HASBROOK	
FRED TRASK	65	JOE KAUFMAN		DANIEL JAYES	29	SHARON WISE	
OJAI VALLEY RAC	2:44.51	AUDREY ERIENNE		ARIZONA MASTERS	2:18.64	TOM PERRIN	
JOHN MELVILLE	74	RAY TAFT		MATT DUKE	22	ROGER JONES	
ROBERT MAY	59	SAN MATEO	3:51.48	LISA SARTORI	28	PALMETTO MASTER	2:11.88
CAROLE BORLAND	50	HELEN ROUMASSETT	78	RANE SMITH	29	JAN PESAVENTO	41
MALCHIA OLSHAN	62	HILDA BUEL	79	TONY BATHEY	30	HUGH WILDER	46
HEARTLAND SWIM	2:53.43	JOE KAUFMAN	88	WALT WELLS	75	KATIE MCNAMARA	38
DAVID SZUCH	50	*****		RALEIGH AREA	2:24.97	JOE SHAKE	35
GENE SAPPER	64	RELAYS: MIXED 200 M. MEDLEY		SHARON BARRELL	32	HOLMES LUMBER	2:23.00
NANCY REED	66	*****		JIM WELZEN	22	BILL PILLMORE	45
ELFRIEDE LEHTO	60	76 - 99		MARY GIBSON	30	KATHRYN WINE	41
BOLT	3:08.10	R:ANCIENT MARINER93	2:03.76	ANDY FARRELL	23	MARK EBEL	45
CLAIRE ROACH	66	JEFFREY RODDIN				C.J. APICELLA	33
BARBARA BOWER	55	BRIAN CRILLY		120-159		ARIZONA MASTERS	2:26.07
N HEDRICK	70	JILL RODDIN		R:LAKESIDE	89 1:58.28	DAVID GOLDNER	51
RICHARD DANIEL	67	TRACEY CRILLY		WILLIAM TINGLEY		ROBERT LEWIS	50
INLAND EMPIRE	3:13.44	ANCIENT MARINER	2:03.76	GINA GATTI		DIANNE WYGAL	27
SID ROSEN	72	BRIAN CRILLY	24	MICHAEL HIGGS		JUDY GILLIES	45
KATIE BLANK	45	JILL RODDIN	22	MELINDA SCHMITT		ELMWOOD SHARKS	2:35.49
C.J. HAMILTON	79	JEFFREY RODDIN	24	HOLMES LUMBER	2:03.30	JOAN JOHNSON	32
CAROLYN KENT	47	TRACEY CRILLY	23	SUDI MILLER	26	BOB REIMERS	50
RALEIGH AREA	4:00.72	BOLT	2:15.77	JACK MCKEAN	29	DAVID MINOR	45
MICHAEL STROUPE	56	KERRY FRITSCHER	25	GINA AGUILAR	34	SHELLEY SCHUBACH	43
JUDY KELLY	68	ROBERT FRITSCHER	25	CRIS WILLIAMS	32	BOLT	2:36.72
BUZ CATLIN	79	TYRANO DIAZ	19	ST PETE	2:06.08	GEORGIANNA TUURI	44
DUDLEY DEAN	68	NANCY LONERGAN	27	BRIAN VAILE	31	GREG BODES	36
				LISA FLANAGAN	30	HUGH FLEMING	43
280-319				WILLIAM SPECHT	35	VICKI BUCCINO	47
R:CONNECTICUT	88 2:38.80	100-119		TISH OLEKSY	31	HOLMES LUMBER	2:36.73
JERRY JARROLD		R:AIR FORCE	91 2:01.83	O*H*I*O MASTERS	2:06.23	BARTON COBB	39
DOROTHY DONNELLY		ANNA PLANTIER		KATHERINE NOOK	22		

TOP TEN

SHORT COURSE METERS

DEBORAH MOORE	44	RUDOLPH SAPPER	60	BOLT	4:54.97	FABIO ASTUDILLO	41		
JOHN CONLON	37	RONALD WILLIAMSON	55	LOUISE OFFNER	75	JOAN VER HALEN	24		
SANDRA POWELL	46	TRICH HUNTER	59	MIKE OFFNER	79	KERRI NAUFUL	36		
ORLM	2:37.52			RICHARD DANIEL	67	STEPHEN WILDER	43		
NICOLE MISTELE	33	240-279		CLAIRE ROACH	66	PNA	4:36.82		
DAVID WESLEY	41	R:LOS ALTOS	91	2:32.46		DONNA PETERS	30		
WM. KYLE ADAMS	45	DELLA SEHORN		320-359		MARIA BUSKE	31		
PENNY POTTER	46	JOHN RICHARDS		R:SAN MATEO	91	4:23.02	DAVID HILL	31	
HEARTLAND SWIM	2:46.02	LAURA VAL		JOE KAUFMAN		BILL FENNER	37		
DAVID SAPPER	39	JAY CRADDOCK		HILDA BUEL		PNA	5:14.94		
TINA DANIELS	37	GOLD COAST	2:41.97	RAY TAFT		RAD DUTTON	51		
GEORGE DALL	38	MARGARET TIMMINS	63	MARGARET KEIL		RICK STAFFORD	46		
CHRISTINE BIBY	46	ANNE MCGUIRE	59	LONG BEACH MAST	4:51.08	AMY MORRIS	31		
INVERNESS	2:46.06	HERB KERN	61	BRION WINSHIP	75	AMY NEWELL	30		
JOHN HOLLAND	45	DON SONJA	63	MAXINE MERLINO	81				
KIM BENT	31	SAN DIEGO SWIM	2:56.74	MADELEINE MILLER	83	160-199			
MARK PLUMMER	56	BETSY JORDAN	56	DON NEEFE	85	R:EMPIRE STATE	93	4:18.87	
LAURA SKOTNICKI	39	GORDON GILLIN	62	*****		JON EINSIDLER			
PARRIS ISLAND	2:46.62	DONALD HUBBARD	65	RELAYS: MIXED 400 M. FREE		KAREN FARNSWORTH			
DAVID PAINTER	55	R.I TURCOTTE	65	*****		GWEN DEELY			
VICKI TERCY	37	SAN DIEGO SWIM	2:57.64	76 - 99		MATTHEW CLARK			
SCOTT GRABER	48	MARY SPENCER	57	R:CONN	92	4:25.28	EMPIRE STATE	4:18.87	
CAROLYN RADCLIFFE	43	LLOYD SKRAMSTAD	59	ROB TORGERSON		JON EINSIDLER		42	
		ADRIENNE PIPES	59	JERIANNE DONNELLY		KAREN FARNSWORTH		37	
		WILLIAM PHILLIPS	65	MARCEL BACLASKI		GWEN DEELY		44	
200-239		ST PETE	3:04.47	ZACH FACER		MATTHEW CLARK		37	
R:LINCOLN	89	2:15.20		NO RELAY TEAMS		HEARTLAND S A M		5:19.78	
BETTY BENNETT		PAUL HUTINGER	68			JIM BOLLMAN		40	
WILLIAM MULLIKEN		ABRASHA BRAININ	70	100-119		BRUCE MENZIES		43	
IRENE DAVID		MARGIE HUTINGER	53	R:SAN DIEGO	93	4:07.69	TINA DANIELS	36	
PAUL HUTINGER		SANDY STEER	54	JUDY NELSON		CHRISTINE BIBY		45	
SAN DIEGO SWIM	2:27.98	HOLMES LUMBER	3:15.66	LUKE SALERNO		HEARTLAND SWIM		6:02.98	
BETSY JORDAN	56	M.R. NEWMAN	69	KARLYN PIPES		DAVE BUTLER		46	
PETER RIDDLE	55	WALTER ABSTEIN	51	JAY GOLDSCHMIDT		STEVEN SAPPER		35	
BILL EARLEY	57	THOMAS KOENIG	61	SAN DIEGO SWIM	4:07.69	MAUREEN MARKS		40	
SALLY KARRASCH	40	JEAN BEERS	71	JUDY NELSON		TRICH HUNTER		59	
LAKESIDE	2:29.55	OJAI VALLEY RAC	3:16.80	LUKE SALERNO		26	O*H*I*O MASTERS	6:17.72	
WILLIAM TINGLEY	43	CAROLE BORLAND	50	KARLYN PIPES		31	JEFF WEEGAR	38	
CAROL FERGUSON	62	ROBERT MAY	59	JAY GOLDSCHMIDT		27	DORIS LOCKER	49	
JOHN NOLAN	45	MALCHIA OLSHAN	62	VENICE MASTERS	4:11.74	25	PRUDY HALL	55	
MARY ANN STONE	60	JOHN MELVILLE	74	TERI ELLIS		24	JULIO APONTE	48	
DAC	2:35.85	HEARTLAND SWIM	3:17.21	LARA FORMAN		29			
MARSHA HENIG	46	NANCY REED	66	DAVID KASTIGAR		35	200-239		
BOB PATTEN	58	GENE SAPPER	64	BRUCE STAHL		4:18.82	R:OREGON	90	4:50.94
HEIDI BOESTLER	46	JUDY TILARO	58	AIR FORCE AQUAT		42	BARBARA FRID		
BOB BRUNER	54	WILLIAM GRACEY	52	PETER HUISVELD		32	HUGH RICHARDS		
RALEIGH AREA	2:40.52	RALEIGH AREA	4:26.10	KELLY LAZERSON		22	GINGER PIERSON		
CEIL BLACKWELL	53	BUZ CATLIN	79	BRIAN MEADE		23	ROBERT SMITH		
C.LEBOURGEOIS	59	DUDLEY DEAN	68	JARA FATOUT			HEARTLAND S A M		5:21.54
ALICE JONES	55	JUDY KELLY	68				DOUGLAS SELBY		47
PHIL EISENHART	50	MICHAEL STROUPE	56				DAVID SZUCH		50
HOLMES LUMBER	3:07.96			120-159			MARILYN RAMEY		52
KAY MARTIN	56	280-319		R:S CALIF AQ	89	4:05.98	MARLEE VANDERHAUG		51
S.D. DINGFIELD	46	R:CONN	92	MICHAEL HEATHER			SAN DIEGO SWIM		5:38.59
BILL RODENFELS	51	NANCY PHILLIPS		CLAY EVANS			J STEPHEN MOSELEY		55
M.E. D'ANGELO	47	ROGER CHAMBERLAIN		DIANE GRANER			LAURA MELDRUM		40
BOLT	3:07.98	RONNIE KAMPHAUSEN		JOANNE BECK			BETSY JORDAN		56
BARBARA BOWER	55	HARRY BARTLETT		HEARTLAND S A M	4:15.63		LLOYD SKRAMSTAD		59
DICK BOWER	63	SAN DIEGO SWIM	3:10.37	VICKY DAVIDSON		28	MICHIGAN MASTER		5:56.23
R RODRIGUE	59	DIANA SILVA	71	REBECCA JACKMAN		29	DONALD KROEGER		49
ELLEN HALL	42	TOM DOWELL	71	MICHAEL SAPPER		36	THOMAS MOYER		45
MICHIGAN MASTER	3:09.84	ALICIA COLEMAN	67	LEE MENCH		40	FREDERICKA RAPP		49
DONALD KROEGER	49	JERRY SIEFERT	75	EMPIRE STATE	4:25.26		MARY WILLIAMS		61
THOMAS MOYER	45	HOLMES LUMBER	3:12.68	DON SUMADA		32			
FREDERICKA RAPP	49	RICHARD AVERY	70	C. MCDONALD		32	240-279		
MARY WILLIAMS	61	GERTRUD ZINT	76	PAMELA WEEKES		32	R:TAMALPAIS	88	5:55.13
HEARTLAND SWIM	3:10.81	FLORENCE CARR	68	BEN WATSON		28	CHARLOTTE JENKINS		
MARLEE VALDERHAUG	52	BRUD CLEVELAND	75	SAN DIEGO SWIM	4:28.84		ROBERT BURNS		
ELFRIEDE LEHTO	60	HOLMES LUMBER	3:55.92	MARY ELLEN ANDERS		33	DORE SCHWAB		
MIKE PHILLIPS	51	F.H. TILLOTSON	78	KEVIN PIERCE		28	NANCY RIDOUT		
BRUCE MENZIES	44	RACHEL ERWIN	74	CATHY NEVILLE		36	SAN DIEGO SWIM		5:56.65
HEARTLAND SWIM	3:59.11	TELFAIR MAHAFFY	57	CHRIS HUXLEY		26	GORDON GILLIN		63
CECILY MCNEIL	48	JUNE REYNOLDS	71	ALHAMBRA MASTER	4:33.01				

TOP TEN

SHORT COURSE METERS

MARY SPENCER	57	CHARLES HARTJE	34	LUCILLE GLASSMAN	36	R:HEARTLAND	93	9:00.09
ADRIENNE PIPES	59	KELLI DOLE	35	DAVE SCHAECTER	41	JEFF REILLY		
KENNETH KIMBALL	63	RINCONADA	4:59.35			VICKY DAVIDSON		
OJAI VALLEY RAC	6:20.99	CHRIS KANAZAWA	26	200-239		HEATHER WOLFENDEN		
ROBERT MAY	59	BILL OLIVER	32	R:SAN DIEGO	91	5:13.60	RANDALL EICKHOFF	
CAROLE BORLAND	50	GARY GIBSON	35	BETSY JORDAN			HEARTLAND SWIM	9:00.09
JOHN MELVILLE	74	REBECCA PINTO	38	PETER RIDDLE			JEFF REILLY	32
MALCHIA OLSHAN	62	ALHAMBRA MASTER	5:07.71	BARBARA DUNBAR			VICKY DAVIDSON	29
HEARTLAND SWIM	6:24.61	STEPHEN WILDER	43	BILL EARLY			HEATHER WOLFENDEN	24
GENE SAPPER	64	ELAINE FONG	36	SAN DIEGO SWIM	6:06.98		RANDALL EICKHOFF	28
RUDOLPH SAPPER	60	FABIO ASTUDILLO	41	SALLY KARRASCH	40		VENICE MASTERS	9:25.11
NANCY REED	66	JOAN VER HALEN	24	PETER RIDDLE	55		BRUCE STAHL	35
JUDY TILARO	58	SANTA CLARA	5:22.45	DONALD BAKER	62		LARA FORMAN	24
		CAMERON REID	33	GINI BURNS	43		TERI ELLIS	25
280-319		ALISON BENKE	22	SAN DIEGO SWIM	6:14.74		DAVID KASTIGAR	29
R:SAN MATEO	89	DAN DIKE	26	BETSY JORDAN	56		LA MESA MASTERS	10:13.26
AUDREY ETIENNE		ALMA GUIMARIN	39	LLOYD SKRAMSTAD	59		LYNN UNDERWOOD	29
FRED TAIOLI		RINCONADA	5:26.87	ADRIENNE PIPES	59		ROSEMARY HUTZLEY	39
HELEN ROUMASSET		JOHN SELMER	48	RICHARD UHRLAUB	35		JORGE SELF	21
RAY TAFT		JAMES WANDERER	37	ST LOUIS	6:51.92		JOHN LAPP	25
LONG BEACH MAST	7:19.20	ONDINE PARKER	26	PAT FOX	41			
MAURINE KORNFELD	72	KATHY DAY	35	DORIS PETERS	70	120-159		
MADELEINE MILLER	83	DAVIS AQUATIC	5:28.83	WILLIAM CANNON	63	R:SAN DIEGO	89	9:12.88
EMILE ACHEE	66	CHRIS WINN	27	JOAN POHLMANN	29	JENNIFER CAINE		
WILLIAM PROTEAU	72	E.HERNANDEZ-DUQUE	29			MARILYN FINK		
ST LOUIS	7:24.92	CHRIS SCHULTZ	22	240-279		MICHAEL LYLE		
JEAN SCHNORBUS	67	STEVE CARLSON	74	R:ST LOUIS	92	5:59.74	JEFFERY MILTON	
WILLIAM CANNON	63	PNA	5:30.92	ED ROSENHAUER			LAKESIDE	9:59.76
EDITH HENDRY	82	MARY CASSAR	30	CAROL TAYLOR			RUSSELL WILLIAMS	34
ROBERT BLAKE	68	LIB RUST	34	ARDETH MUELLER			CHRIS BURCKLE	36
*****		WAYNE METHNER	40	ROBERT BLAKE			PAMELA HAEBERLIN	30
RELAYS: MIXED 400 M. MEDLEY		JOHN KULSA	25	HEARTLAND SWIM	7:11.22		WENDY MEDLEY	39
*****		FINS AQUATIC CL	5:39.42	NANCY REED	66	ARIZONA MASTERS	10:02.38	
76 - 99		MICHELLE WENDT	27	GENE SAPPER	64	JIM STITES	36	
R:INLAND EMPIRE	87	JO ANN MILLER	42	JUDY TILARO	58	LISA SARTORI	28	
SUSAN HANCOCK		JAMES ROBLES	27	RUDOLPH SAPPER	60	MATT DUKE	22	
CHASE COPELAND		M. CECATIELLO	31			JUDY GILLIES	45	
DON STORY		LA MESA MASTERS	5:49.96	280-319		SYLVANIA	10:30.35	
LOUISE WALLS		LYNN UNDERWOOD	29	R:CONNECTICUT	88	7:42.99	STEVE PIERZCHALA	31
NO RELAY TEAMS		ROSEMARY HUTZLEY	39	NANCY PHILLIPS			JEAN DYER	33
		MARK HODGES	41	GUS LANGNER			LAURIE FOSTER	33
100-119		JOHN LAPP	25	ROGER CHAMBERLAIN			CEDRIC DORCAS	30
R:SAN DIEGO	93	WEST HOLLYWOOD	5:54.78	DOROTHY DONNELLY			MICHIGAN	10:35.35
ALAN VOISARD		THOMAS GROSVENOR	34	RINCONADA	8:04.98		STEVE PIERZCHALA	31
LUKE SALERNO		JESSICA SEATON	40	NAN BLACKLEDGE	69		JEAN DYER	33
KARLYN PIPES		ROBERT COOK JR.	35	ALDO DA ROSA	75		LAURIE FOSTER	33
DIANE GLEASON		KATHY CONTE	47	C. FAIRCHILD	68		CEDRIC DORCAS	30
SAN DIEGO SWIM	4:29.74			KATHERINE BAILEY	70	HEARTLAND SWIM	10:56.10	
ALAN VOISARD	33	160-199				STEVEN SAPPER	35	
LUKE SALERNO	26	R:CONN	92	320-359		KELLI DOLE	35	
KARLYN PIPES	31	KATHERINE BRANCH	4:50.99	R:SAN MATEO	93	10:17.99	LYNN MACDONALD	38
DIANNE GLEASON	28	BOB KANE		JOE KAUFMAN			CESAR ROMERO	33
SANTA CLARA	4:30.79	MIKE LAUX		WALTER WELLS				
SERGEY MARINIUK	24	DONNA NEARY		HELEN ROUMASSETT		160-199		
JAMES PARRACK	26	RINCONADA	5:13.54	HILDA BUEL		R:EMPIRE STATE	93	9:24.44
TONI ROSS	34	KEN FATTLAR	36	SAN MATEO	10:17.99	JON EINSIDLER		
DARBY ELLEMAN	33	JUDITH SCHWARTZ	39	JOE KAUFMAN	88	KAREN FARNSWORTH		
VENICE MASTERS	5:00.92	KIRK KOSLOWSKI	35	WALTER WELLS	75	MATTHEW CLARK		
TERI ELLIS	25	CAROL MACPHERSON	55	HELEN ROUMASSETT	78	GWEN DEELY		
TERENCE YOUNG	28	RINCONADA	5:36.87	HILDA BUEL	79	EMPIRE STATE	9:24.44	
DAVID KASTIGAR	29	FRED FARLEY	39	*****		JON EINSIDLER	42	
MICHELE MELENDEZ	21	KATHERINE BASS	42	RELAYS: MIXED 800 M. FREE		KAREN FARNSWORTH	37	
		DAVE MARKER	35	*****		MATTHEW CLARK	37	
120-159		BOBBIE CALLISON	61	76 - 99		GWEN DEELY	44	
R:HEARTLAND	93	HEARTLAND S A M	5:57.35	R:DAVIS AQUATIC	92	9:17.27	LAKESIDE	12:30.27
VICKY DAVIDSON		DOUGLAS SELBY	47	BRIAN TIMMERMAN			WOODY TURRENTINE	45
RON SCHAFFER		CHRISTINE BIBY	45	SCOTT SHEA			RICHARD SCHEU	53
CHARLES HARTJE		DIANE MENDOZA	32	CHRISTINE WINN			DEBBIE UTZ	40
KELLI DOLE		BRUCE MENZIES	43	CHRISSE CHICHE			MARY WILLIAMS	35
HEARTLAND SWIM	4:34.93	LOS ALTOS	6:01.66	NO RELAY TEAMS			MICHIGAN	12:31.03
VICKY DAVIDSON	29	JOHN PONISCHIL	67				DONALD KROEGER	49
RON SCHAFFER	36	CATHY SCHULBACH	40	100-119			THOMAS MOYER	45

TOP TEN

SHORT COURSE METERS

P. STRICKLAND	52
FREDERICK RAPP	48
HEARTLAND SWIM	12:53.46
DAVID SZUCH	50
BARBARA THOMPSON	47
MAUREEN MARKS	40
MIKE TOPE	38

200-239

R:SAN DIEGO 89 10:40.03

WILLIAM EARLEY	
WILLIAM PHILLIPS	
BETSY JORDAN	
BARBARA DUNBAR	

LAKESIDE 11:14.71

JOHN NOLAN	45
WILLIAM TINGLEY	43
CAROL FERGUSON	62
MARY ANN STONE	60

O*H*I*O MASTERS 11:52.07

DOUG BROGAN	61
MARIANNE BROGAN	58
DIANE ROTHENBERG	40
JULIO APONTE	48

HEARTLAND S A M 12:16.81

DAVID SZUCH	50
DOUGLAS SELBY	47
MARILYN RAMEY	52
MARLEE VANDERHAUG	51

SAN DIEGO SWIM 13:01.77

J STEPHEN MOSELEY	55
BETSY JORDAN	56
LAURA MELDRUM	40
LLOYD SKRAMSTAD	59

240-279

R:ST LOUIS 92 12:38.59

ROBERT BLAKE	
BRUCE COONAN	
CAROL TAYLOR	
JEAN SCHNORBUS	

SAN DIEGO SWIM 13:20.66

KENNETH KIMBALL	63
MARY SPENCER	57
ADRIENNE PIPES	59
GORDON GILLIN	63

HEARTLAND SWIM 15:48.41

GENE SAPPER	64
RUDOLPH SAPPER	60
NANCY REED	66
TRICH HUNTER	59

280-319

R:SPACE COAST 87 20:36.33

VERA BROWN	
SUE MCGAUGHEY	
GUS SPOHN	
RICHARD FLETCHER	
NO RELAY TEAMS	

WORLD RECORDS

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

		WRL SCM RECORDS AS OF 11-01-93								
*****		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 VIJVER	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	
29.62	04-17-93	USA	GREG RHODENBAUGH	50	M. BRST	DAGMAR HILBIG	GER	- -92	33.74	
1:04.33	04-17-93	USA	DAVID GUTHRIE	100	M. BRST	SHARRON DAVIES	GBR	11-14-92	1:15.39	
2:24.92	- -91	JPN	G. CHRISTIANSEN	200	M. BRST	ESTER ISEPPI	SUI	10-15-89	2:49.16	
25.06	04-09-89	USA	MICHAEL BOTTOM	50	M. FLY	SHARRON DAVIES	GBR	11-14-92	29.63	
56.43	04-09-89	USA	MICHAEL BOTTOM	100	M. FLY	REBECCA PERROTT	NZL	- -91	1:04.69	
2:13.62	12-11-88	USA	R MARK SCHUMAN	200	M. FLY	NEROLI NIXON	AUS	- -92	2:26.35	
59.95	04-26-92	USA	J. CLAY BRITT	100	M. I.M.	SANDY NEILSON	USA	05-18-88	1:07.78	
2:12.33	09-17-88	USA	TOBY WEISSERT	200	M. I.M.	SANDY NEILSON	USA	05-10-87	2:27.11	
4:44.78	12-13-92	USA	ALLAN JAEGER	400	M. I.M.	REBECCA PERROTT	NZL	10-26-91	5:13.69	
*****		M E N	*****		35-39	*****		W O M E N	*****	
23.98	10-15-89	USA	BILL VICKERY	50	M. FREE	S. NIELSON-BELL	USA	04-17-93	26.24	
53.94	10-15-89	USA	BILL VICKERY	100	M. FREE	S. NIELSON-BELL	USA	11-15-92	1:00.29	
1:59.38	10-15-89	USA	LARRY WOOD	200	M. FREE	JACKI HIRSTY	USA	10-15-89	2:12.69	
4:18.22	10-04-91	USA	ROB COPELAND	400	M. FREE	MARIA VELIKONJA	USA	03-27-93	4:46.93	
9:02.71	11-15-92	USA	SANDY MACDONALD	800	M. FREE	LAURA VAL	USA	05-31-87	9:46.95	
17:25.79	10-03-91	USA	ROB COPELAND	1500	M. FREE	LAURA VAL	USA	05-29-87	18:27.71	
27.54	10-10-93	USA	WILLIAM SPECHT	50	M. BACK	LAURA VAL	USA	10-06-91	32.50	
1:00.65	10-10-93	USA	WILLIAM SPECHT	100	M. BACK	PAT GILMORE	CAN	05-06-88	1:10.47	
2:10.01	10-10-93	USA	WILLIAM SPECHT	200	M. BACK	PAT GILMORE	CAN	05-16-88	2:34.09	
30.10	04-18-93	GER	GLEN CHRISTIANSEN	50	M. BRST	LESLIE OSBORNE	USA	10-15-89	34.63	
1:08.30	- -90	GER	GERD KRUGER	100	M. BRST	LESLIE OSBORNE	USA	10-15-89	1:16.70	
2:28.35	10-15-89	USA	GREG HARRISON	200	M. BRST	LESLIE OSBORNE	USA	10-15-89	2:50.93	
25.89	10-10-93	USA	WILLIAM SPECHT	50	M. FLY	LAURA VAL	USA	10-06-91	30.05	
57.02	10-10-93	USA	WILLIAM SPECHT	100	M. FLY	MARIA VELIKONJA	USA	03-27-93	1:07.28	
2:06.97	10-10-93	USA	WILLIAM SPECHT	200	M. FLY	LAURA VAL	USA	10-06-91	2:28.96	
1:00.79	03-21-92	USA	RICHARD HESS	100	M. I.M.	S. NIELSON-BELL	USA	03-21-92	1:08.15	
2:15.67	10-15-89	USA	CLAY EVANS	200	M. I.M.	S. NIELSON-BELL	USA	11-15-92	2:31.39	
4:53.16	10-15-89	USA	CLAY EVANS	400	M. I.M.	KAREN FARNSWORTH	USA	10-27-91	5:30.35	
*****		M E N	*****		40-44	*****		W O M E N	*****	
24.81	04-17-93	USA	JERRY HEIDENREICH	50	M. FREE	LAURA VAL	USA	09-12-92	28.25	
55.02	10-10-93	USA	C MILTENBERGER	100	M. FREE	LAURA VAL	USA	09-12-92	1:01.15	
1:59.27	11-15-92	USA	TIMOTHY BRODERICK	200	M. FREE	LAURA VAL	USA	11-15-92	2:14.32	
4:18.45	10-15-89	USA	KEVIN POLANSKY	400	M. FREE	BARBARA DUNBAR	USA	10-17-92	4:50.68	
9:01.20	10-15-89	USA	KEVIN POLANSKY	800	M. FREE	BARBARA DUNBAR	USA	02-10-91	10:04.16	
17:38.17	05-31-87	USA	DAVID GRAY	1500	M. FREE	BARBARA DUNBAR	USA	02-04-90	19:00.81	
28.93	10-06-91	USA	JERRY HEIDENREICH	50	M. BACK	S. PLATT-ROGERS	GBR	- -91	33.85	
1:04.14	05-09-93	GBR	EDDIE RIACH	100	M. BACK	LAURA VAL	USA	11-15-92	1:10.94	
2:22.17	10-15-89	USA	TOD SPIEKER	200	M. BACK	LAURA VAL	USA	11-15-92	2:38.40	
30.80	10-10-93	USA	C MILTENBERGER	50	M. BRST	GILLIAN CACKETT	GBR	10-18-92	37.64	
1:07.98	10-10-93	USA	C MILTENBERGER	100	M. BRST	GAYLE BENTY	USA	11-15-92	1:22.19	
2:31.37	01-23-93	USA	GREGORY HARRISON	200	M. BRST	GAYLE BENTY	USA	11-15-92	2:54.12	
26.66	04-17-93	USA	JERRY HEIDENREICH	50	M. FLY	LAURA VAL	USA	09-12-92	30.18	
1:00.79	10-15-89	USA	ANDREW MCPHERSON	100	M. FLY	LAURA VAL	USA	09-12-92	1:07.59	
2:16.15	10-15-89	USA	BOO GALLAS	200	M. FLY	BARBARA DUNBAR	USA	10-29-89	2:32.19	
1:02.30	10-15-89	USA	RIC COOLEY	100	M. I.M.	LAURA VAL	USA	09-12-92	1:11.65	
2:18.73	10-15-89	USA	JOHN CALVERT	200	M. I.M.	LAURA VAL	USA	11-15-92	2:33.89	
5:00.76	10-15-89	USA	JOHN CALVERT	400	M. I.M.	LAURA VAL	USA	11-15-92	5:32.53	

WORLD RECORDS

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

***** M E N *****		***** 45-49 *****		***** W O M E N *****	
25.08	03-07-93	USA	RICHARD ABRAHAMS	50 M. FREE	SUSAN SHRIMPTON
56.45	11-15-92	USA	ANDREW MCPHERSON	100 M. FREE	SUSAN SHRIMPTON
2:05.81	- -88	USA	ED CAZALET	200 M. FREE	ARDETH MUELLER
4:29.82	- -91	BAR	ANGUS EDGHILL	400 M. FREE	SANDRA O'NEIL
9:26.18	- -92	BAR	ANGUS EDGHILL	800 M. FREE	SANDRA O'NEIL
18:10.24	- -91	BAR	ANGUS EDGHILL	1500 M. FREE	SANDRA O'NEIL
29.33	03-12-89	USA	ROBERT SMITH	50 M. BACK	SATOKO TAKEUJI
1:05.31	03-12-89	USA	ROBERT SMITH	100 M. BACK	SATOKO TAKEUJI
2:24.39	12-13-92	USA	TIM BIRNIE	200 M. BACK	SANDRA O'NEIL
31.95	- -91	NED	K WITTENHOUT	50 M. BRST	ELAINE BROMWICH
1:10.41	12-13-92	USA	ROBERT STRAND	100 M. BRST	CAROLYN BOAK
2:35.71	12-13-92	USA	ROBERT STRAND	200 M. BRST	GINGER PIERSON
27.08	04-17-93	USA	DAN THOMPSON	50 M. FLY	JUDY WILSON
1:03.36	03-07-93	USA	RICHARD ABRAHAMS	100 M. FLY	JUDY WILSON
2:25.95	11-15-92	USA	ANDREW MCPHERSON	200 M. FLY	ARDETH MUELLER
1:05.45	11-15-92	USA	ROBERT STRAND	100 M. I.M.	ARDETH MUELLER
2:24.45	10-27-91	USA	JOHN CALVERT	200 M. I.M.	ARDETH MUELLER
5:12.41	05-23-93	RUS	NIKOLAEV JURIY	400 M. I.M.	ARDETH MUELLER
***** M E N *****		***** 50-54 *****		***** W O M E N *****	
26.35	11-06-88	USA	JEFF FARRELL	50 M. FREE	NANCY RIDOUT
59.21	- -90	SWE	PETER BERGEGREN	100 M. FREE	ARDETH MUELLER
2:12.18	09-12-92	USA	ED CAZALET	200 M. FREE	ARDETH MUELLER
4:40.16	11-15-92	USA	ED CAZALET	400 M. FREE	ARDETH MUELLER
9:49.95	11-15-92	USA	ED CAZALET	800 M. FREE	NANCY RIDOUT
19:04.02	- -92	GBR	MIKE WAKE	1500 M. FREE	LAVELLE STOINOFF
31.42	10-15-89	USA	JOHN SMITH	50 M. BACK	SATOKO TAKEUJI
1:09.38	10-20-90	NZL	BARRY YOUNG	100 M. BACK	SATOKO TAKEUJI
2:30.21	10-21-90	NZL	BARRY YOUNG	200 M. BACK	ARDETH MUELLER
33.09	- -90	JPN	HIROSHI KOTEGAWA	50 M. BRST	ERNA LOSKAMP
1:14.72	10-15-89	USA	DRURY GALLAGHER	100 M. BRST	ERNA LOSKAMP
2:45.11	10-15-89	USA	DRURY GALLAGHER	200 M. BRST	ERNA LOSKAMP
28.65	05-16-93	JPN	KOJI IWAMOTO	50 M. FLY	ERNA LOSKAMP
1:05.10	05-16-93	JPN	KOJI IWAMOTO	100 M. FLY	ARDETH MUELLER
2:29.99	01-15-93	JPN	KOJI IWAMOTO	200 M. FLY	SPERRY RADEMAKER
1:07.60	10-15-89	USA	DRURY GALLAGHER	100 M. I.M.	ARDETH MUELLER
2:31.52	10-15-89	USA	DRURY GALLAGHER	200 M. I.M.	YOSHIKO OSAKI
5:20.81	10-15-89	USA	DRURY GALLAGHER	400 M. I.M.	ARDETH MUELLER
***** M E N *****		***** 55-59 *****		***** W O M E N *****	
26.60	10-15-89	USA	DONALD HILL	50 M. FREE	JAYNE BRUNER
1:00.08	10-15-89	USA	DONALD HILL	100 M. FREE	JAYNE BRUNER
2:17.95	02-07-93	JPN	KAZUYA NISHINO	200 M. FREE	LAVELLE STOINOFF
4:59.35	05-10-92	JPN	KAZUYA NISHINO	400 M. FREE	LAVELLE STOINOFF
10:35.62	10-25-87	USA	GRAHAM JOHNSTON	800 M. FREE	LAVELLE STOINOFF
20:03.24	12-09-90	USA	BURWELL JONES	1500 M. FREE	LAVELLE STOINOFF
32.43	10-04-92	GBR	GRAHAM SYKES	50 M. BACK	BETSY JORDAN
1:12.17	10-15-89	USA	YOSHI OYAKAWA	100 M. BACK	BETSY JORDAN
2:41.11	11-15-89	USA	JACK BEATTIE	200 M. BACK	BETSY JORDAN
33.17	05-09-93	JPN	HIROSHI KOTEGAWA	50 M. BRST	JAYNE BRUNER
1:16.32	06-04-88	USA	MANUEL SANGUILY	100 M. BRST	FLORA CONNOLLY
2:51.47	10-15-89	USA	MANUEL SANGUILY	200 M. BRST	FLORA CONNOLLY
30.15	09-16-90	USA	ROBERT BAILIE	50 M. FLY	BETSY JORDAN
1:13.47	11-04-90	USA	WALLY DOBLER	100 M. FLY	YOSHIKO OSAKI
2:53.71	10-15-89	USA	MANUEL SANGUILY	200 M. FLY	FLORA CONNOLLY
1:12.67	12-10-89	USA	BURWELL JONES	100 M. I.M.	YOSHIKO OSAKI
2:41.86	12-09-90	USA	BURWELL JONES	200 M. I.M.	YOSHIKO OSAKI
5:54.37	12-10-89	USA	BURWELL JONES	400 M. I.M.	FLORA CONNOLLY
***** M E N *****		***** 60-64 *****		***** W O M E N *****	
28.30	- -91	JPN	S TAMAMOTO	50 M. FREE	JANE ASHER
1:05.52	07-15-90	USA	CHARLES BALDWIN	100 M. FREE	JANE ASHER
2:21.77	08-11-91	USA	GRAHAM JOHNSTON	200 M. FREE	LAVELLE STOINOFF
5:02.20	07-18-93	USA	GRAHAM JOHNSTON	400 M. FREE	LAVELLE STOINOFF
10:41.44	06-27-93	USA	GRAHAM JOHNSTON	800 M. FREE	LAVELLE STOINOFF
20:12.52	06-27-93	USA	GRAHAM JOHNSTON	1500 M. FREE	CLARA WALKER
34.81	10-19-86	USA	PAUL HUTINGER	50 M. BACK	CLARA WALKER
1:17.31	10-19-86	USA	PAUL HUTINGER	100 M. BACK	CLARA WALKER
2:48.78	03-28-92	AUS	BOB BARRY	200 M. BACK	DORIS STEADMAN
37.29	04-17-93	USA	HARRY HUNSICKER	50 M. BRST	EDITH BOEHM
1:23.19	10-15-89	USA	DONALD VANROSSEN	100 M. BRST	FLORA CONNOLLY
3:06.66	- -91	ITA	BRUNELLO GRAJA	200 M. BRST	JUDIE OLIVER
31.66	05-09-93	JPN	HITOSHI KATO	50 M. FLY	JANE ASHER
1:16.56	- -86	GBR	JACK HALE	100 M. FLY	JUDIE OLIVER
3:00.48	04-17-93	USA	HARRY HUNSICKER	200 M. FLY	JUDIE OLIVER
1:15.84	- -91	JPN	HITOSHI KATO	100 M. I.M.	CLARA WALKER
2:46.69	08-11-91	USA	GRAHAM JOHNSTON	200 M. I.M.	CLARA WALKER
6:02.73	07-18-93	USA	GRAHAM JOHNSTON	400 M. I.M.	JUDIE OLIVER

WORLD RECORDS

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

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

WORLD RECORDS

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

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

WORLD RECORDS

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

WRL SCM RECORDS AS OF 11-01-93

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

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

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

WORLD RECORDS

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

WRL LCM RECORDS AS OF 11-01-93											
***** M E N *****					***** W O M E N *****						
***** 25-29 *****					***** 30-34 *****						
22.59	08-28-83	USA	KEVIN DEFORREST	50 M. FREE	SARA SHAND	USA	08-18-91	26.68			
51.25	08-14-81	USA	JIM MONTGOMERY	100 M. FREE	SARA SHAND	USA	08-18-91	58.23			
1:52.17	08-23-92	USA	JOHN KEPPELER	200 M. FREE	SARA SHAND	USA	07-30-89	2:07.11			
4:06.99	- -88	BRA	MARCUS MATTIOLI	400 M. FREE	SARA SHAND	USA	07-30-89	4:27.53			
8:36.83	08-23-92	USA	JEFF ERWIN	800 M. FREE	SARA SHAND	USA	07-30-89	9:18.43			
16:28.69	08-08-87	USA	CAMERON REID	1500 M. FREE	AMY POPE	USA	08-28-88	17:38.78			
27.39	- -86	BRA	R. ARANTES	50 M. BACK	DIANE GRANER	USA	08-20-89	30.80			
58.24	08-23-92	USA	JOHN KEPPELER	100 M. BACK	MONIQUE RODAHL	NZL	- -89	1:06.46			
2:07.57	08-23-92	USA	JOHN KEPPELER	200 M. BACK	DIANE GRANER	USA	08-20-89	2:19.97			
29.77	07-05-93	USA	DEWEY WYATT	50 M. BRST	S. SEMINATORE	ITA	- -89	32.01			
1:04.60	07-30-89	USA	DAVID LUNDBERG	100 M. BRST	S. SEMINATORE	ITA	- -90	1:16.05			
2:26.73	- -87	GER	T. LIGL	200 M. BRST	SHARON DAVIES	GBR	- -90	2:42.02			
25.16	-83-84	USA	DEFORREST/BOTTOM	50 M. FLY	ROSEMARIE SEAMAN	USA	08-24-87	28.79			
56.34	04-28-84	USA	MICHAEL BOTTOM	100 M. FLY	ROSEMARIE SEAMAN	USA	08-24-87	1:03.91			
2:05.25	- -84	TCH	M. LUKASEK	200 M. FLY	S PALMER-WHITE	AUS	- -92	2:18.69			
				100 M. I.M.							
2:09.21	08-08-87	USA	CAMERON REID	200 M. I.M.	SHARON DAVIES	GBR	- -90	2:22.00			
4:34.08	08-09-87	USA	CAMERON REID	400 M. I.M.	SHARON DAVIES	GBR	- -90	5:05.29			
***** M E N *****					***** W O M E N *****						
***** 30-34 *****					***** 35-39 *****						
23.21	11-24-90	USA	A ROWDY GAINES	50 M. FREE	S. NEILSON-BELL	USA	08-28-88	26.37			
51.50	07-14-91	USA	A ROWDY GAINES	100 M. FREE	S. NEILSON-BELL	USA	10-15-88	58.09			
1:54.04	07-13-90	USA	A ROWDY GAINES	200 M. FREE	BETH KNIGHT	USA	08-20-89	2:07.84			
4:08.70	07-16-86	USA	JIM MONTGOMERY	400 M. FREE	BETH KNIGHT	USA	08-25-91	4:30.38			
8:46.99	07-16-86	USA	JIM MONTGOMERY	800 M. FREE	LYNN MARSHALL	CAN	07-05-92	9:16.82			
16:36.06	08-22-93	USA	BOBBY PATTEN	1500 M. FREE	KAREN BURTON	USA	08-23-92	17:40.50			
27.32	10-15-88	USA	DIX OZIER	50 M. BACK	BETH MAUER	USA	10-15-88	32.11			
1:00.03	08-22-93	USA	JAY YARID	100 M. BACK	ZENA HERRMANN	USA	07-26-92	1:09.07			
2:09.84	08-22-93	USA	JAY YARID	200 M. BACK	DAPHNE FUCHS	GER	04-25-93	2:23.47			
29.42	07-05-92	USA	DAVID GUTHRIE	50 M. BRST	M. MOHMANN	GBR	- -88	34.56			
1:05.65	08-18-91	USA	DAVID LUNDBERG	100 M. BRST	M. HOHMANN	GBR	- -88	1:14.52			
2:24.06	08-18-91	USA	DAVID LUNDBERG	200 M. BRST	DAGMAR HILBIG	GER	- -89	2:48.41			
25.31	10-15-88	USA	MIKE BOTTOM	50 M. FLY	BETH HARRELL	USA	07-05-92	29.22			
56.64	10-15-88	USA	MIKE BOTTOM	100 M. FLY	BETH HARRELL	USA	07-05-92	1:06.08			
2:07.43	08-22-93	USA	BOBBY PATTEN	200 M. FLY	KAREN BURTON	USA	08-23-92	2:27.54			
				100 M. I.M.							
2:09.69	08-18-91	USA	DAVID LUNDBURG	200 M. I.M.	S. NEILSON-BELL	USA	08-28-88	2:29.22			
4:40.44	07-05-92	USA	DAVID LUNDBERG	400 M. I.M.	KAREN BURTON	USA	08-23-92	5:11.39			
***** M E N *****					***** W O M E N *****						
***** 35-39 *****					***** 40-44 *****						
24.56	07-05-92	RUS	ALEXEI MARKOVSKY	50 M. FREE	S NEILSON-BELL	USA	08-22-93	26.89			
54.28	07-05-92	USA	JAMES MONTGOMERY	100 M. FREE	SUSAN HALFACRE	USA	08-28-88	1:00.25			
1:57.95	07-05-92	USA	DAN STEPHENSON	200 M. FREE	SUSAN HALFACRE	USA	08-28-88	2:09.33			
4:15.49	07-05-92	USA	DAN STEPHENSON	400 M. FREE	SUSAN HALFACRE	USA	08-28-88	4:33.08			
8:52.22	07-05-92	USA	DAN STEPHENSON	800 M. FREE	SUSAN HALFACRE	USA	08-28-88	9:24.54			
17:26.29	08-20-89	USA	JIM MCCONICA	1500 M. FREE	SUSAN PAMELIA	USA	08-24-87	18:12.11			
28.04	08-26-78	USA	THOMPSON MANN	50 M. BACK	LAURA VAL	USA	07-22-90	32.39			
1:00.95	08-22-93	USA	WILLIAM SPECHT	100 M. BACK	LAURA VAL	USA	07-30-89	1:10.94			
2:13.83	07-29-90	USA	TOM WOLF	200 M. BACK	KAREN FARNSWORTH	USA	07-05-92	2:35.44			
30.79	07-05-92	USA	DOUG MALCOLM	50 M. BRST	L WETZEL-OSBORNE	USA	08-20-89	34.41			
1:07.90	07-05-92	USA	MARK SCHUMAN	100 M. BRST	L WETZEL-OSBORNE	USA	08-20-90	1:17.44			
2:33.05	07-05-92	USA	MARK SCHUMAN	200 M. BRST	DAGMAR HILBIG	GER	09-12-93	2:51.75			
25.93	08-01-93	USA	MICHAEL BOTTOM	50 M. FLY	SUSAN HALFACRE	USA	08-28-88	29.27			
57.44	08-22-93	USA	WILLIAM SPECHT	100 M. FLY	SUSAN HALFACRE	USA	08-28-88	1:05.39			
2:09.18	07-05-92	USA	JAMES BELARDI	200 M. FLY	LAURA VAL	USA	07-30-89	2:26.38			
				100 M. I.M.							
2:16.49	07-05-92	USA	MARK SCHUMAN	200 M. I.M.	S NEILSON-BELL	USA	08-22-93	2:36.67			
4:55.13	07-05-92	USA	JAMES BELARDI	400 M. I.M.	KAREN FARNSWORTH	USA	07-05-92	5:34.47			
***** M E N *****					***** W O M E N *****						
***** 40-44 *****					***** 45-49 *****						
24.93	07-05-92	USA	TOM WHATLEY	50 M. FREE	LAURA VAL	USA	08-23-92	28.05			
56.00	04-15-93	RSA	TERENCE DOWNES	100 M. FREE	LAURA VAL	USA	07-26-92	1:02.99			
2:03.28	08-22-93	USA	TIM BRODERICK	200 M. FREE	LAURA VAL	USA	07-25-93	2:17.01			
4:24.26	08-22-93	USA	TIM BRODERICK	400 M. FREE	BARBARA DUNBAR	USA	07-15-90	4:54.49			
9:19.37	08-20-90	USA	KEVIN POLANSKY	800 M. FREE	LAURA VAL	USA	07-25-93	9:57.69			
17:30.13	08-20-90	USA	KEVIN POLANSKY	1500 M. FREE	BARBARA DUNBAR	USA	08-30-92	19:00.40			
29.38	08-12-90	USA	PETER O'KEEFFE	50 M. BACK	LAURA VAL	USA	08-23-92	32.42			
1:03.39	08-11-90	USA	PETER O'KEEFFE	100 M. BACK	LAURA VAL	USA	08-23-92	1:11.03			
2:18.17	08-12-90	USA	PETER O'KEEFFE	200 M. BACK	B BAZUREAU	FRA	06-07-92	2:43.23			
30.82	07-05-92	USA	PEDER DAHLBERG	50 M. BRST	A.WRIGHT-BELKNAP	USA	08-23-92	37.02			
1:09.95	07-05-92	USA	PEDER DAHLBERG	100 M. BRST	DEBRA WALKER	USA	08-18-91	1:21.73			
2:32.17	08-23-92	USA	RICK COLELLA	200 M. BRST	GAYLE BENTY	USA	08-22-93	2:59.24			
27.04	08-18-91	USA	JOHN FOOTE	50 M. FLY	LAURA VAL	USA	08-23-92	30.13			
1:02.05	08-29-80	USA	LANCE LARSON	100 M. FLY	LAURA VAL	USA	08-23-92	1:06.27			
2:20.81	08-01-93	USA	EDWARD BROWN	200 M. FLY	BARBARA DUNBAR	USA	08-06-89	2:33.51			
				100 M. I.M.							
2:18.92	08-23-92	USA	RICK COLELLA	200 M. I.M.	LAURA VAL	USA	07-25-93	2:38.20			
4:57.46	08-23-92	USA	RICK COLELLA	400 M. I.M.	LAURA VAL	USA	07-25-93	5:39.70			

WORLD RECORDS

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

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

WORLD RECORDS

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

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

WORLD RECORDS

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

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

WORLD RECORDS

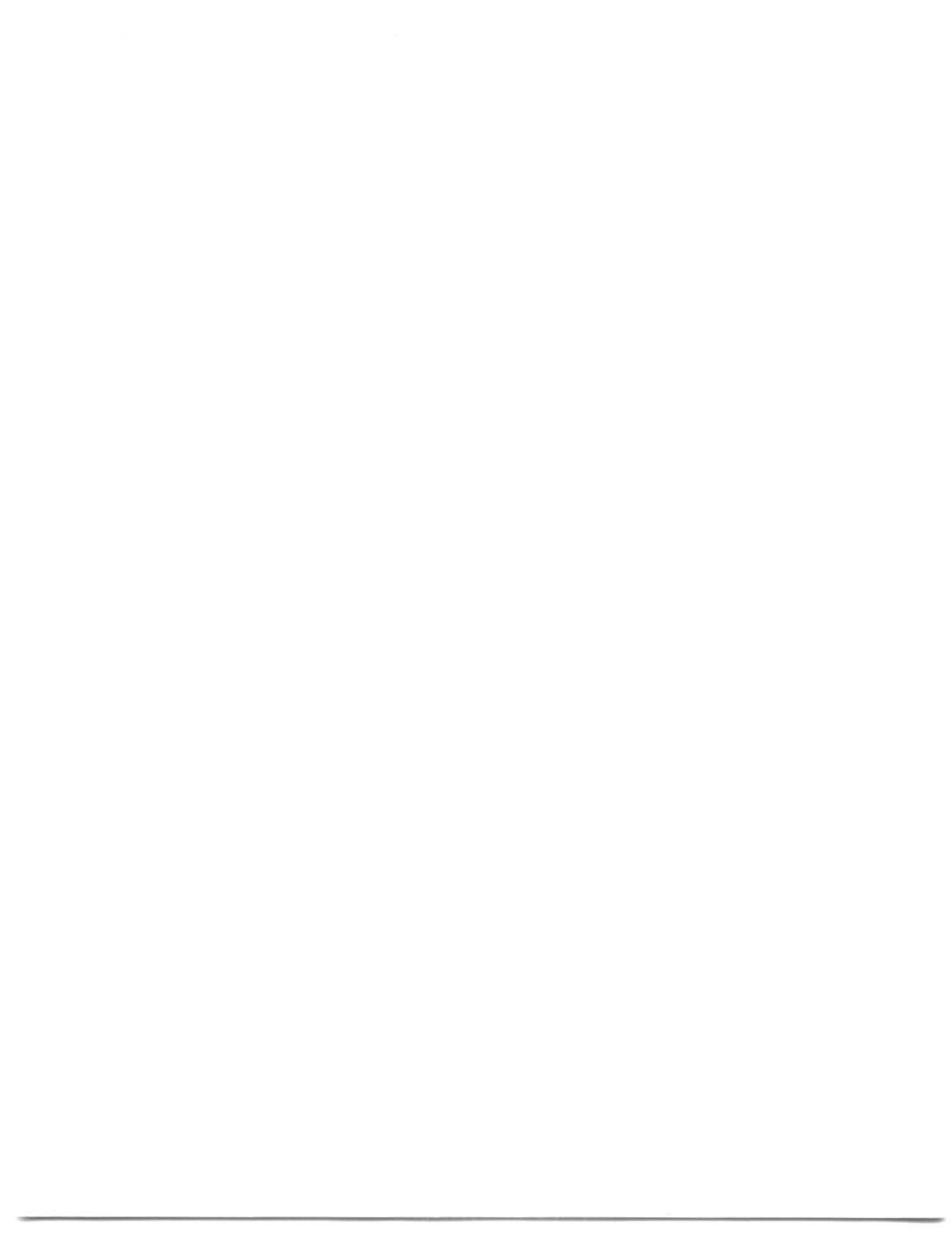
LONG COURSE METERS (as of 11-1-93)

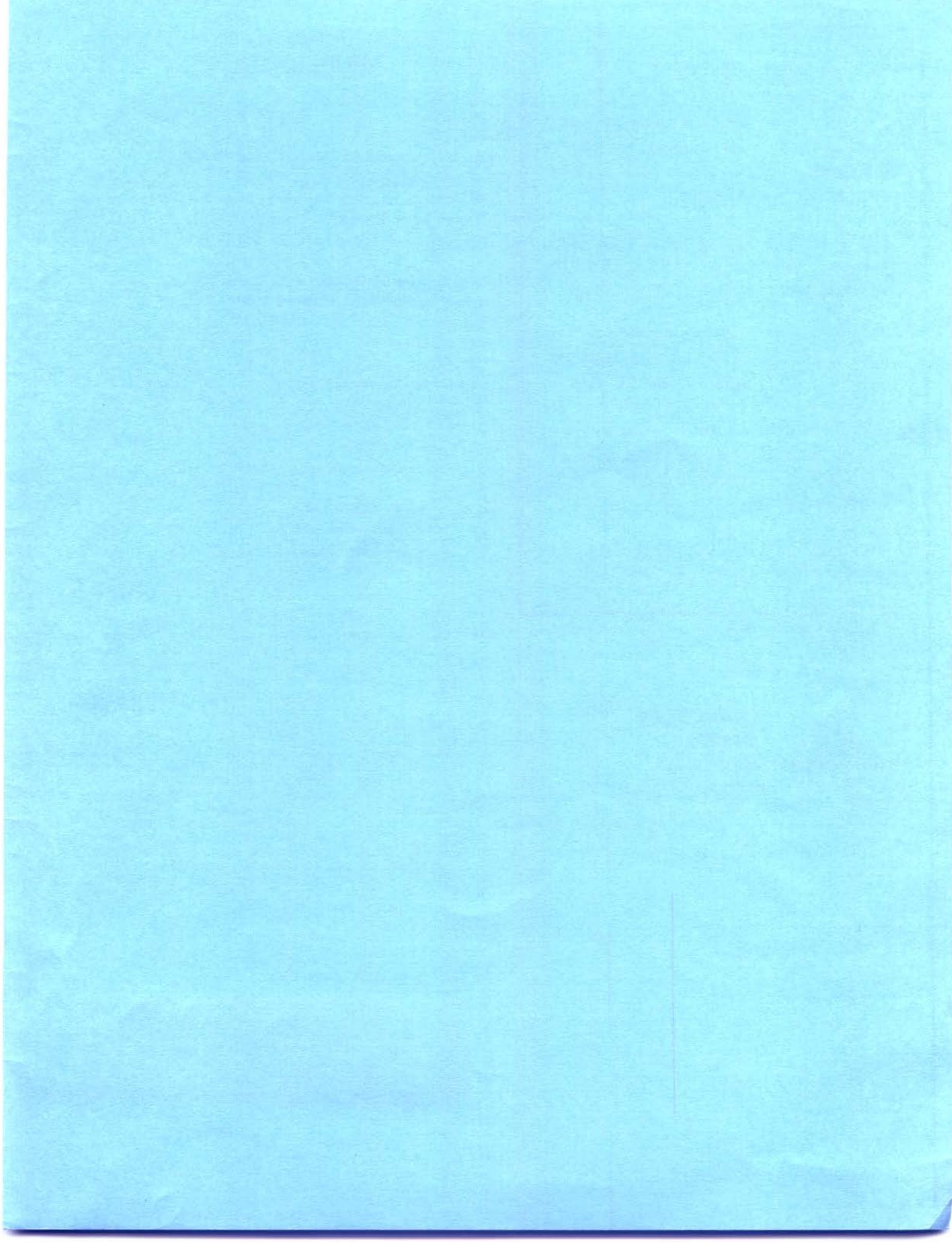
WRL LCM RECORDS AS OF 11-01-93

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

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

***** RELAY 200 M. FREE - MIXED *****			***** RELAY 200 M. MEDLEY - MIXED *****				
100	+ HOLMES - USA	- -88	1:53.89	100	+ HOLMES - USA BETH MAUER SAM SEIPLE	08-28-88 BRUCE HOWELL MARY HOLMES	1:56.58
120	+ HOLMES - USA	- -88	1:44.83	120	+ D.C. MASTERS THOMAS WOLF SUSAN SKIFF	- -85 MATTHEW KANZLER JACKI HIRSTY	1:58.03
160	+ ROCKY MT. - USA CATHY DROZDA TOM WHATLEY	07-05-92 JUDY REED RICHARD ABRAHAMS	1:47.46	160	+ HOLMES - USA	- -88	2:02.10
200	+ LOS ALTOS - USA EDWARD CAZALET ARLENE PROEBSTING	08-23-92 CAROLYN BOAK ROBERT PROEBSTING	1:58.15	200	+ LOS ALTOS - USA EDWARD CAZALET ROBERT PROEBSTING	08-23-92 CAROLYN BOAK ARLENE PROEBSTING	2:14.58
240	+ HOLMES - USA	- -88	2:09.67	240	+ NEW ENGLAND-USA CLARA WALKER WIN WILSON	08-28-88 TED HAARTZ DIANE REED	2:29.30
280	+ OREGON - USA GERALD HUESTIS PETEY SMITH	08-23-92 ANDREW HOLDEN PAULINE STANGEL	2:31.29	280	+ HOLMES - USA	- -88	2:37.98
320	+ DC MASTERS-USA NANCY CLARK KELLEY LEMMON	08-01-93 ANNE WALKER DAVID MCAFFEE	3:03.15	320	+ SC POSEIDON-GER GERDA SCHUBERT KARL WITTENBERG	09-12-93 RUDI SCHUBERT RUTH HOFFMANN	4:18.03





USMS TOP TEN

As usual, you'll find world records for short and long course meters herein. The National Records for Short Course/Meters are listed at the top in each event.

This issue starts our third year of publishing Top Tens. We hope you enjoy scanning the submitted times for each of three courses.

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Your Top Ten Crew: Walt Reid, Betsy Durrant, Dorothy Donnelly, and Gene Donner.

Published April 1994

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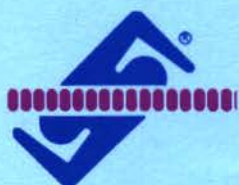
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