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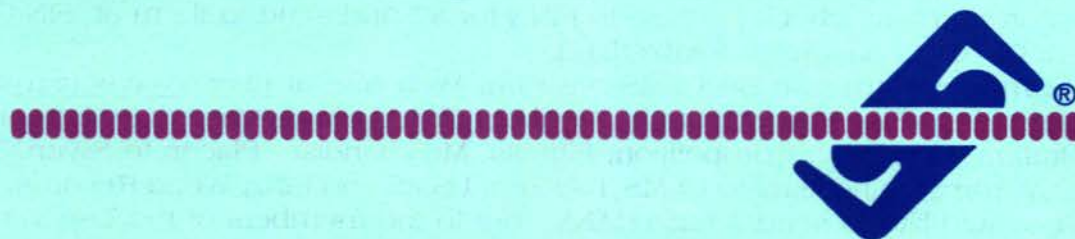
*United States
Masters Swimming, Inc.*

**1998-1999
Top Ten
Short Course Yards**

and
World Records

as of May 1, 1999

**Long Course Meters
Short Course Meters**



Published August 1999

UNITED STATES MASTERS SWIMMING
1998 - 1999 TOP TEN
SHORT COURSE YARDS

The 1998-1999 Short Course Yards Top Ten is the first issue in a series of three 1999 Top Ten issues produced by United States Masters Swimming. Inside you will find the Top Ten Times for the 1998-1999 Short Course Yard season (swims performed in a 25 yard pool) made on or before May 31, 1999 and forwarded to the Records and Tabulation Chairman, Pieter Cath, by June 30, 1999. Each LMSC is responsible for reporting the Top Ten Times, USMS national records, and world records achieved in its LMSC.

The first line under each event (which is indented) is the current national record for that event and age group. An "NV" after a top ten time indicates that appropriate documentation has not yet been supplied and the time is Not Verified as a record.

Each person (individuals and relay members) on this list is eligible to purchase a Top Ten Patch with stroke segment. Send \$5 to Darlynn Ferguson, 4917 Walden Circle, Orlando, FL 32811. Add \$1.25 for each additional stroke segment desired.

The second issue in this series is 1999 Long Course Meters (swims performed in a 50 meter pool). Times and records considered for this Top Ten list must be made on or before September 30, 1999 and reported to the Top Ten Chairman by October 20th.

The 1999 Short Course Meters (swims performed in a 25 meter pool) list is the third issue in this series of Top Tens. Times and records considered for this Top Ten list must be made on or before December 31, 1999 and reported to the Top Ten Chairman by January 26, 2000.

Once the SCM Top Ten is *finalized*, the official 1999 All American Roster will be produced. A swimmer/relay who has the Top Ten time in one or more event(s) in any one of the three courses qualifies for All American status. To order an All American Certificate and Patch, send a check for \$5 made out to USMS to: USMS National Office, P.O. Box 185, Londonderry, NH 03053-0185.

Those individuals performing the most first place times, in the most events, in their age group are awarded All Star status. All Stars will receive a certificate from the National Office. All American (individual) and All Star rosters will appear in the May/June issue of SWIM Magazine.

The USMS All Time Top Ten is available in all three courses. This publication lists the top ten fastest times recorded over the years in each age group and each event. The cost is \$4 for one course, \$3 for the second or \$10 for all three. To order, make check payable to Suzanne Rague and send to her at: 935 NW 170th Place, Beaverton, OR 97006-4831.

Masters Swimming World Top Ten Tabulation is a yearly publication produced by FINA. To order, make check payable to FINA for \$7 and send to them at: FINA, Avenue de Beaumont 9, 1012 Lausanne - Switzerland.

For more information on USMS, visit our Web Site at <http://www.usms.org>. There you will find everything you want to know about United States Masters Swimming, including: Administration, Coaching, Competition, Fitness, Merchandise, Places to Swim, Training, the World of Swimming and links to USMS Top-Ten, USMS and FINA World Records.

We would like to send a big THANKS out to the members of the Top Ten Committee and the LMSC Top Ten Recorders who are all dedicated volunteers who spend countless hours at their computers on our behalf. Thank you Betsy Durrant for handling the subscription lists and Gene Donner and Gateway printing who duplicates this final product.

Happy Swimming!

Tracy

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

WOMEN 19-24

• 50 YD FREESTYLE	27.49 Nicole Paplham	24	28.00 Ellen Lessig	24	25.08 Beth Eldridge	28
23.89 JANET MAYVILLE	28.86 Kriste Kleiner	24	28.22 Mariejo Pasion	24	• 100 YD FREESTYLE	
24.63 Jessica A Tong	29.29 Celestena Duke	21	28.29 Kriste Kleiner	24	51.07 SARA SHAND	93
24.92 Ellen Lessig	29.45 Antje Flamich	19	28.30 S Stringfellow	23	52.22 Mary Edwards	26
25.25 Nicole Paplham	29.53 Katie D Liu	24	• 100 YD BUTTERFLY		53.11 Alison Terry	25
25.25 Alice Wallace	29.74 S Stringfellow	23	57.39 SUDI MILLER	91	53.50 Heather Hageman	28
25.28 Annie Tom	29.75 D Slootjes	24	59.00 Michelle Collins	22	53.87 Kathleen Hartnett	27
25.37 Celestena Duke	29.88 Sierra Snyder	22	59.90 Jessica A Tong	24	54.41 Lisa Summers	28
25.60 Meagan Ivers	30.07 Melisa Norman	24	1:01.20 Amy C Hurst	22	54.41 Suzanne Dearworth	26
25.66 S Stringfellow	30.08 Elizabeth Zehr	24	1:02.29 Heather Draper	22	54.46 Teresa Derbes	27
25.68 Kristi Goldthorpe	• 100 YD BACKSTROKE		1:02.63 Wendy Simon	22	54.55 Sharon Patrick	27
25.98 Leslie Allen	56.08 SARA SCHWEITZER	99	1:03.47 Amy Fletcher	21	55.05 Beth Eldridge	28
• 100 YD FREESTYLE	56.08 Sara Schweitzer	20	1:03.71 Mariejo Pasion	24	55.61 Jie Li	26
52.08 SUDI MILLER	57.19 Jessica A Tong	24	1:03.75 Jean Dillon	24	• 200 YD FREESTYLE	
52.16 Jessica A Tong	59.74 Nicole Paplham	24	1:03.91 Stefanie Duff	24	1:51.53 SARA SHAND	93
52.98 Sara Schweitzer	1:00.47 Heather Draper	22	1:03.92 Kristi Goldthorpe	23	1:53.48 Hannenian Kissel	28
54.19 Nicole Paplham	1:00.66 Katie Liu	24	• 200 YD BUTTERFLY		1:57.66 Lisa Summers	28
55.47 Alice Wallace	1:03.04 Kriste Kleiner	24	2:06.92 SARA SCHWEITZER	99	1:57.92 Alison H Zamanian	28
55.52 Emily Peters	1:03.16 Celestena Duke	21	2:06.92 Sara Schweitzer	20	1:59.05 Jean Kellachan	27
55.66 M Jespersen	1:03.49 Sierra Snyder	21	2:16.20 C Sterling	22	2:00.27 Kathleen Hartnett	27
55.94 Celestena Duke	1:04.50 Antje Flamich	19	2:19.56 Stefanie Duff	24	2:00.50 Sionainn Marcoux	26
56.47 Ashley Walker	1:04.92 Erin Powers	24	2:20.58 Jill Shumaker	23	2:00.60 Kari Andersson	27
56.52 Ellen Lessig	• 200 YD BACKSTROKE		2:24.04 Sarah Kerlin	24	2:00.63 Julia C Davies	25
56.63 Ann Girvin	2:01.00 SARA SCHWEITZER	99	2:24.66 Jill Hansen	24	2:00.77 Katie C Welch	29
• 200 YD FREESTYLE	2:01.00 Sara Schweitzer	20	2:25.64 Jessica Sullivan	22	2:01.19 Teresa Derbes	27
1:52.55 SARA SCHWEITZER	2:11.65 Katie Liu	24	2:26.43 Heather N Royer	24	• 500 YD FREESTYLE	
1:52.55 Sara Schweitzer	2:11.70 Heather Draper	22	2:28.01 Jodi K Jackson	21	4:49.88 SHEILA TAORMINA	96
1:57.75 Emily Peters	2:13.37 Nicole Paplham	24	2:29.35 Robyn Jarmer	24	5:03.02 Wendy Knox	27
1:57.83 Darlene Conrad	2:14.98 Sierra Snyder	21	• 100 YD INDIVIDUAL MEDLEY		5:07.48 C Jefferey	26
1:59.61 Nicole Paplham	2:15.93 Amanda Pagon	23	59.21 SUDI MILLER	91	5:11.36 Alison H Zamanian	28
2:00.90 M Jespersen	2:16.92 Antje Flamich	19	59.98 Jessica A Tong	24	5:16.29 Jane Cairns	28
2:02.88 Antje Flamich	2:19.81 Erin Powers	24	1:01.63 Cynthia Janssen	23	5:17.16 Julia C Davies	25
2:03.10 Amy Betz	2:20.44 Holly Nelson	23	1:03.69 Amy Hurst	23	5:17.22 Katie S Welch	29
2:04.80 Jill Hansen	2:20.93 Sarah Riley	23	1:03.74 Kriste Kleiner	24	5:18.03 Sionainn Marcoux	26
2:04.89 Katie D Liu	• 50 YD BREASTSTROKE		1:04.04 Ann Girvin	24	5:19.94 Rose Rice	25
2:05.32 Laney Deatsch	30.25 SUSIE MORTENSON	93	1:04.27 Katie Liu	24	5:20.83 Laurel Hooper	25
• 500 YD FREESTYLE	30.94 Cynthia Janssen	23	1:04.37 Antje Flamich	21	5:24.68 Kari Andersson	27
4:56.93 EVA MORTENSON	32.55 Nicola J Clegg	23	1:04.55 Celestena Duke	21	• 1000 YD FREESTYLE	
5:15.41 Emily Peters	32.62 Helen I Salcedo	23	1:04.67 Sarah Riley	23	10:12.34 LISA HAZEN	94
5:25.67 Jill Hansen	33.29 Johanna Proffitt	24	1:04.91 Leslie Allen	23	10:27.79 Alison H Zamanian	28
5:29.03 Katie Liu	33.40 Tania Youkin	22	• 200 YD INDIVIDUAL MEDLEY		10:53.88 Julia C Davies	25
5:31.25 Merideth Cox	33.45 Emily Butler	22	2:06.36 SARA SCHWEITZER	99	10:57.11 Rose Rice	25
5:32.44 Margaret Pizer	33.77 Ellen Lessig	24	2:06.36 Sara Schweitzer	20	11:17.97 Ellen Baird	29
5:33.27 Amanda Pagon	33.82 Meagan Ivers	23	2:10.83 Jessica A Tong	24	11:23.66 Sara Quan	26
5:36.73 Trina Young	34.09 Suzette Atrasz	22	2:10.97 Cynthia Janssen	23	11:26.54 Lynn Kelley	27
5:39.82 Ashley Walker	34.30 Wendy Dixon	20	2:17.29 Amy Hurst	23	11:31.38 Shauna Simpson	27
5:41.37 Heather N Royer	• 100 YD BREASTSTROKE		2:17.76 Jennifer Maloney	22	11:37.87 Megan Smothergill	28
5:42.89 Stefanie Duff	1:06.74 SUSIE MORTENSON	93	2:17.87 Heather Draper	22	11:40.20 Melissa Braisted	26
• 1000 YD FREESTYLE	1:06.90 Cynthia Janssen	23	2:18.51 Amanda Pagon	23	11:43.64 Michele Fox	29
10:33.71 ALISON ZAMANIAN	1:09.90 Nicola J Clegg	23	2:18.58 Jill Hansen	24	• 1650 YD FREESTYLE	
10:47.64 Emily Peters	1:10.29 Helen I Salcedo	23	2:19.09 Renate Olaisen	24	16:50.17 KAREN BURTON	91
11:28.74 Kristi Lee	1:10.48 Sarah Riley	23	2:19.10 Katie Liu	24	17:23.89 Alison H Zamanian	28
11:41.23 Emily Butler	1:11.31 Laney Deatsch	21	• 400 YD INDIVIDUAL MEDLEY		17:33.40 Toby Smith	25
11:46.14 Trina Young	1:11.94 Amanda Pagon	23	4:35.22 CYNTHIA JANSSEN	99	18:24.50 Julia C Davies	25
11:54.92 Jennifer Brewer	1:12.45 Jean Dillon	24	4:35.22 Cynthia Janssen	23	18:27.94 Jane Cairns	28
12:09.92 Kriste Kleiner	1:12.90 Trina Young	22	4:45.59 Amanda Pagon	23	18:31.22 Laurel Hooper	25
12:15.18 Tracey Janik	1:13.15 Johanna Proffitt	24	4:49.76 Renate Olaisen	24	19:06.16 Lynn Kelley	27
12:17.30 Melissa Lykins	1:13.41 Jennifer Dorius	24	4:50.33 Jill Hansen	24	19:13.36 Sara Quan	26
12:22.36 Maria Elm	• 200 YD BREASTSTROKE		4:56.99 Emily Peters	23	19:21.92 Bethany Williston	28
12:35.69 Kendra Garrow	2:24.51 CYNTHIA JANSSEN	99	5:00.13 Sarah Kerlin	24	19:26.77 Susan D Strong	27
• 1650 YD FREESTYLE	2:24.51 Cynthia Janssen	23	5:03.15 Danille Sullivan	22	19:29.93 Ann Hill	29
17:31.70 KAREN BURTON	2:30.12 Nicola J Clegg	23	5:05.38 Erin Powers	24	• 50 YD BACKSTROKE	
18:45.75 Renate Olaisen	2:38.20 Jill Hansen	24	5:07.00 Ashley Walker	24	25.98 MARY EDWARDS	99
18:55.27 Merideth Cox	2:39.00 Maria Elm	23	5:07.00 Lauralyn Beckley	23	25.98 Mary Edwards	26
19:18.18 Trina Young	2:39.37 Amy Betz	22	• WOMEN 25-29		27.28 Alison Terry	25
19:21.37 Holly Sisk	2:39.61 Caroline Hamilton	24	• 50 YD FREESTYLE		28.35 Kathleen Hartnett	27
19:31.27 Margaret Pizer	2:40.02 Helen I Salcedo	23	23.20 ANNA PETTIS-SCOTT	92	28.48 Li Jie	26
19:34.19 Kristi Lee	2:40.17 Emily Butler	22	23.91 Mary Edwards	26	28.55 Michele N Dixon	29
19:43.52 Maura Hagestad	2:40.86 Wendy Dixon	20	24.22 Heather Hageman	28	28.65 Jean Kellachan	27
20:32.56 Stefanie Duff	2:42.33 Lauralyn Beckley	23	24.25 Hannenian Kissel	28	28.70 Jackie Bak	29
20:55.91 Robin Oswald	• 50 YD BUTTERFLY		24.45 Alison Terry	25	28.80 Heather Hageman	28
21:03.71 Kendra Garrow	26.20 JAMIE RAAB	95	24.60 Sharon Patrick	27	28.84 Brandy Toth	27
• 50 YD BACKSTROKE	26.55 Michelle Collins	22	24.60 Kathleen Hartnett	27	29.08 Hilary A Devine	26
26.47 JESSICA TONG	27.59 Amy Hurst	23	24.80 Kathleen Hartnett	27	• 100 YD BACKSTROKE	
	27.68 Wendy Simon	22	24.86 M David-Adams	29	56.28 MARY EDWARDS	99
	27.90 S Baranowski	19	24.90 Teresa Derbes	27	56.28 Mary Edwards	26
	27.92 Celestena Duke	21	24.98 Susie Fawcett	25	59.73 Li Jie	27
	28.00 Meagan Ivers	23			1:00.08 Kathleen Hartnett	27

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

1:00.45 Michele N Dixon 29	1:02.53 Terry Wenzinger 26	1:53.40 Shelia Taormina 30	2:17.62 Dawn Hewitt 33
1:00.51 C Jefferey 26	• 200 YD BUTTERFLY	1:53.93 Lisa Hazen 34	2:17.65 Kaitlyn Jones 31
1:00.70 Jean Kellachan 27	2:03.38 JUNE FORD 87	1:54.77 Laureen Welting 33	2:17.89 Laura K Smith 33
1:01.77 Hillary Devine 27	2:05.21 Hannenian Kissel 28	1:55.81 D Graner Gallas 34	2:18.09 Laurie Hug 34
1:02.40 Solvei Sullivan 28	2:07.36 Wendy Knox 27	1:57.76 Laurie Hug 34	• 50 YD BREASTSTROKE
1:02.68 Jane Cairns 28	2:13.63 Bonnie Fryer 26	1:58.51 Charlott Petersen 34	29.84 ROSEMARIE SEAMAN 89
1:02.69 Stacy Gentry 25	2:13.79 Alison Zamanian 29	1:58.58 Laurel S Hill 30	31.53 Kathryn Gelman 34
• 200 YD BACKSTROKE	2:16.59 Margaret Brown 27	2:00.15 Martie Mc Kinney 33	31.59 Angel Martino 31
2:01.29 DIANE GRANER 91	2:17.75 Shauna Simpson 27	2:01.17 Aimee Lehr 31	31.80 Kersten Annegers 30
2:07.95 Mary Edwards 26	2:18.73 Jane Cairns 28	2:01.70 Susie Delvin 31	32.20 Sheila Arredondo 34
2:08.52 Katie S Welch 29	2:19.24 Pamela M Franklin 29	• 500 YD FREESTYLE	32.45 Janet Harlow 30
2:09.56 Kathleen Hartnett 27	2:19.59 Linda Visser 28	4:59.08 K PIPES-NEILSEN 96	32.59 Debbie Schultz 30
2:10.28 Li Jie 27	2:20.02 Martha Ortman 29	5:03.21 Lisa Hazen 34	33.04 Kelly Rellinger 32
2:13.30 Alison H Zamanian 28	• 100 YD INDIVIDUAL MEDLEY	5:06.27 Shelia Taormina 30	33.05 Sarah Lee 32
2:15.20 Corinne Murphy 25	58.43 MARY EDWARDS 99	5:07.99 Laureen Welting 33	33.07 Jennifer Lundmark 32
2:15.31 Jane Cairns 28	58.43 Mary Edwards 26	5:14.13 Laurie Hug 34	33.17 Laurel S Hill 30
2:15.41 Stacy Gentry 25	58.74 Wenke Hansen 29	5:17.05 Charlott Petersen 34	• 100 YD BREASTSTROKE
2:16.08 Karen Duggan 28	58.88 Alison Terry 25	5:28.81 Susie Devlin 32	1:05.05 ROSEMARIE SEAMAN 89
2:16.59 Jean Kellachan 27	59.30 Hannenian Kissel 28	5:32.29 Jennifer Jacobs 30	1:08.54 Laurel Hill 30
• 50 YD BREASTSTROKE	1:00.78 Jill J Chasson 29	5:33.11 Dianne Gleason 33	1:09.86 Kersten Annegers 30
29.78 KELLI KING-BEDNAR 96	1:02.05 Lori W Tucker 27	5:33.31 Tiffany Forbes 32	1:10.26 Janet Harlow 30
30.16 Wenke Hansen 29	1:02.15 Lisa Summers 28	5:33.56 Nancy Kellner 32	1:10.61 Kathryn E Gelman 34
30.84 Jill J Chasson 29	1:02.32 Sharon Patrick 27	• 1000 YD FREESTYLE	1:11.14 Debbie Schultz 30
31.49 Susie Fawcett 25	1:02.80 Li Jie 27	10:16.36 LISA HAZEN 99	1:11.40 Jennif Lundmark 32
32.16 Kendra J Thayer 26	1:02.81 Kendra J Thayer 26	10:16.36 Lisa A Hazen 34	1:11.59 Jerri Freimuth 34
32.33 Maureen Tennison 26	• 200 YD INDIVIDUAL MEDLEY	10:32.11 Shelia Taormina 30	1:11.84 Lisa Hjerpe 30
32.39 Mary Bergen 28	2:05.98 SARA SHAND 93	10:36.39 Laurie Hug 34	1:11.96 Sheila Arredondo 34
32.58 Jennifer Carter 27	2:06.96 Wenke Hansen 29	10:50.50 Charlott Petersen 34	1:12.37 Jennifer Wechsler 32
32.69 Maureen Haslach 28	2:12.51 C Jefferey 26	11:24.40 Tiffany Forbes 32	• 200 YD BREASTSTROKE
32.74 Louise Martin 29	2:12.92 Kendra J Thayer 26	11:26.31 Kristine Jarecki 33	2:25.31 LAUREL HILL 99
32.79 Lori W Tucker 27	2:13.40 Jill J Chasson 29	11:28.64 Kristen Johnston 32	2:25.31 Laurel Hill 30
• 100 YD BREASTSTROKE	2:14.23 Lori W Tucker 27	11:45.92 Susie K Blake 33	2:30.11 Janet Harlow 30
1:05.53 WENKE HANSEN 99	2:15.00 Jean Kellachan 27	11:53.02 Lisa M Sheepeer 34	2:31.17 Kersten Annegers 30
1:05.53 Wenke Hansen 29	2:15.14 Lisa Summers 27	11:53.46 Melissa Kerker 34	2:31.95 Jennifer Ridge 30
1:06.35 Jill J Chasson 29	2:15.81 Martha Ortman 29	• 1650 YD FREESTYLE	2:34.37 Debbie Schultz 30
1:08.68 Kendra J Thayer 26	2:16.46 Kari Andersson 27	17:07.52 KAREN BURTON 93	2:35.33 Jennifer Lundmark 32
1:10.15 Maureen Haslach 28	2:17.32 Alison Zamanian 29	17:07.66 Lisa Hazen 34	2:36.39 Jerri Freimuth 34
1:10.54 Elizabeth Boehm 25	• 400 YD INDIVIDUAL MEDLEY	17:55.35 Laurie Hug 33	2:37.16 Laurie Hug 34
1:10.55 Lisa Summers 28	4:28.40 SARA SHAND 91	18:48.09 Terri Walters 32	2:37.39 Pamela Lindroos 33
1:10.60 Stephanie Wriede 29	4:29.39 Wenke Hansen 29	18:49.79 Susie Blake 33	2:38.56 Cj-Lockman Hall 34
1:10.67 Mary Bergen 28	4:40.51 Alison Zamanian 29	18:50.22 Dianne Gleason 33	• 50 YD BUTTERFLY
1:10.93 Louise Martin 29	4:44.72 Lori W Tucker 27	18:55.89 Jerri Freimuth 34	24.54 ANGEL MARTINO 99
1:11.04 Christine M Logar 26	4:48.50 Ellen Baird 29	18:58.84 Kristen Johnston 32	24.54 Angel L Martino 32
• 200 YD BREASTSTROKE	4:49.07 Laurel Hooper 25	19:06.67 A Luallen-Scholz 33	26.75 Terri O Wyels 31
2:20.70 WENKE HANSEN 99	4:54.34 Jane Cairns 28	19:06.94 Jennifer Jacobs 30	26.82 Martie McKinney 34
2:20.70 Wenke Hansen 29	4:55.07 Megumi Masuda 25	19:11.20 Nancy Kellner 32	26.93 A Luallen-Scholz 33
2:23.34 Jill J Chasson 29	4:55.37 Rose Rice 25	• 50 YD BACKSTROKE	27.36 D Graner Gallas 34
2:25.05 Kendra J Thayer 26	4:56.57 Maureen Haslach 28	27.14 D GRANER-GALLAS 97	27.49 Mary Monahan 32
2:30.31 Maureen Haslach 28	4:57.10 Shauna Simpson 27	27.85 A Luallen-Scholz 33	27.53 Susan Williams 33
2:33.11 Stephanie Wriede 29		28.20 Martie Mc Kinney 33	27.59 Christin Kanazawa 32
2:33.57 Karen L Duggan 28	WOMEN 30-34	28.22 D Graner Gallas 34	27.71 Sarah Lee 32
2:33.70 Mary Bergen 28		28.28 Susan Williams 33	27.89 Joan Schriger 34
2:34.22 Elizabeth Boehm 25	• 50 YD FREESTYLE	28.29 Aimee Lehr 31	• 100 YD BUTTERFLY
2:34.67 Louise Martin 29	23.04 S NEILSON-BELL 88	28.92 Joan Schriger 34	55.01 ANGEL MARTINO 99
2:34.71 Susie Fawcett 25	23.35 Angel L Martino 32	29.08 Beth Gardner 33	55.01 Angel L Martino 32
• 50 YD BUTTERFLY	24.89 Laura Dissington 34	29.18 Laura Dissington 34	58.39 Martie McKinney 34
25.68 LINDA LANINI 87	25.12 Laureen Welting 33	29.39 Michelle Donahue 31	59.32 Jennifer Ridge 30
25.69 Hannenian Kissel 28	25.41 Aimee Lehr 31	29.49 Sarah Lee 32	59.72 Terri O Wyels 31
26.27 Alison Terry 25	25.44 Susanne Divilbiss 33	• 100 YD BACKSTROKE	59.73 A Luallen-Scholz 33
26.96 M David-Adams 29	25.53 Martie McKinney 34	57.13 K PIPES-NEILSEN 96	1:01.22 D Graner Gallas 34
27.25 Wenke Hansen 29	25.59 Mary Monahan 32	59.34 Martie McKinney 34	1:01.58 Sarah Lee 32
27.29 Heather Hageman 28	25.61 Charlot Petersen 34	59.83 Angel Martino 31	1:01.82 Mary Monahan 32
27.46 Susie Fawcett 25	25.66 Christi Kanazawa 32	59.86 D Graner Gallas 34	1:01.96 Trish Miranda 30
27.58 Lori W Tucker 27	25.70 Dori L Kauffman 30	1:00.25 A Luallen-Scholz 33	1:02.31 Terri Walters 32
27.67 Bonnie Fryer 26	• 100 YD FREESTYLE	1:01.00 Susan Williams 33	• 200 YD BUTTERFLY
27.84 Lori De Luca 27	50.73 ANGEL MARTINO 99	1:01.87 Aimee Lehr 31	2:03.46 K PIPES-NEILSEN 96
27.93 Hilary A Devine 26	50.73 Angel L Martino 32	1:02.05 Joan Schriger 34	2:14.04 Jennifer Ridge 30
• 100 YD BUTTERFLY	53.48 Laurel Hill 30	1:02.47 Michelle Donahue 31	2:16.54 Tiffany Forbes 32
56.38 HEIDI KISSEL 99	54.09 Laureen Welting 33	1:03.39 Terri O Wyels 31	2:18.46 Laurie Hug 34
56.38 Hannenian Kissel 28	54.63 Aimee Lehr 31	1:03.47 Kaitlyn Jones 31	2:20.09 Jill A Lemone 32
1:00.12 Wenke Hansen 29	55.15 Charlot Petersen 34	• 200 YD BACKSTROKE	2:22.35 Laura K Smith 33
1:00.56 Bonnie Fryer 26	55.55 Beth Gardner 33	1:59.93 K PIPES-NEILSEN 96	2:22.83 A Luallen-Scholz 33
1:00.77 Martha Ortman 29	55.78 Lisa Hjerpe 30	2:10.57 A Luallen-Scholz 33	2:24.84 Nancy Kellner 32
1:01.11 Jackie Bak 29	55.93 Trish Miranda 30	2:12.42 Joan Schriger 34	2:26.26 Tracy A Peck 31
1:01.78 Beth Eldridge 28	56.28 Mary Monahan 32	2:16.34 Michelle Donahue 31	2:26.37 Dianne Wygal 33
1:02.34 Teresa Derbes 27	56.41 Becky Heller 34	2:16.48 Lisa Hjerpe 30	2:26.38 Kate Hyland 30
1:02.40 Cheryl Longfellow 29	• 200 YD FREESTYLE	2:16.50 Susie Delvin 31	• 100 YD INDIVIDUAL MEDLEY
1:02.48 Shauna Simpson 27	1:51.99 K PIPES-NEILSEN 96	2:17.27 Terri O Wyels 31	58.78 ROSEMARIE SEAMAN 89

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

59.60 Angel Martino	31	5:07.66 Laurie Vidal	36	33.77 Janna Jensen	35	2:13.08 Beth Baker	38
1:01.14 Martie McKinney	34	5:13.28 Margee Curran	38	• 100 YD BREASTSTROKE		2:13.21 Laurie Vidal	36
1:01.64 A Luallen-Scholz	33	5:14.26 June Ford	37	1:07.58 LESLIE OSBORNE	89	2:14.19 Lisa Ward	35
1:01.85 Jennifer Ridge	30	5:25.36 Wendy Ingraham	35	1:07.70 Caroline Krattli	37	2:14.67 Karen Burton	36
1:02.51 Terri O Wyels	31	5:25.41 Susanne Simpson	39	1:09.16 K Pipes-Neilsen	37	2:15.58 Vibeke Swanson	37
1:02.80 Sarah Lee	32	5:26.77 Leissa Mills	38	1:10.95 Beth Scheimann	37	2:16.10 Caroline Krattli	37
1:03.03 Kersten Annegers	30	5:26.91 Kelly Parker	37	1:12.13 Susan Richmond	37	2:18.38 Susan Cahill	36
1:03.26 Janet Harlow	30	• 1000 YD FREESTYLE		1:13.02 Kim Crouch	37	2:20.00 Beth Scheimann	37
1:03.37 Laura Dissington	34	10:22.60 K PIPES-NEILSEN	99	1:13.25 Michele Roy	35	• 400 YD INDIVIDUAL MEDLEY	
1:03.68 Aimee Lehr	31	10:22.60 K Pipes-Neilsen	37	1:13.25 Carolyn Koster	37	4:24.18 K PIPES-NEILSEN	98
• 200 YD INDIVIDUAL MEDLEY		10:27.78 Karen Burton	36	1:13.43 Patricia Powis	38	4:27.35 K Pipes-Neilsen	37
2:04.30 K PIPES-NEILSEN	96	10:31.98 Laurie Vidal	36	1:13.59 Paula Pollard	35	4:34.77 Jill Hernandez	38
2:10.85 Laurel Hill	30	10:35.29 June Ford	37	1:13.67 Cokie Lepinski	39	4:37.56 Vibeke Swanson	37
2:11.43 Laureen Welting	33	10:43.84 Jill Hernandez	38	1:13.67 Janna Jensen	35	4:39.83 Karen Burton	36
2:11.49 Shelia Taormina	30	10:44.62 Margee Curran	38	• 200 YD BREASTSTROKE		4:46.06 June Ford	37
2:13.85 Jennifer Ridge	30	11:06.62 Kelly Parker	37	2:25.58 CAROLINE KRATTLI	99	4:48.65 Beth Baker	38
2:15.79 Lisa Hjerpe	30	11:06.84 Susan Cahill	36	2:25.58 Caroline Krattli	37	4:52.05 Susan Cahill	36
2:16.88 Laurie Hug	34	11:07.36 Tracie Moll	35	2:29.68 K Pipes-Neilsen	37	4:52.25 Lisa Ward	35
2:17.01 Kersten Annegers	30	11:11.07 Penny Leach	36	2:32.79 June Ford	37	4:53.77 Robin Klestinec	37
2:17.28 Sarah Lee	32	• 1650 YD FREESTYLE		2:37.19 Susan Richmond	37	4:55.75 Caroline Krattli	37
2:17.42 Janet Harlow	30	17:13.99 K PIPES-NEILSEN	97	2:37.45 Kim Crouch	37		
2:17.46 A Luallen-Scholz	33	17:29.64 Karen Burton	36	2:38.07 Michele Roy	35	<u>WOMEN 40-44</u>	
• 400 YD INDIVIDUAL MEDLEY		17:39.58 K Pipes-Neilsen	37	2:38.13 Dara Wilber	39	• 50 YD FREESTYLE	
4:25.68 KARLYN PIPES	95	17:59.04 Margee M Curran	37	2:38.17 Patricia Powis	38	24.29 S NEILSON-BELL	96
4:37.99 Laurie Hug	34	18:29.19 Kelly Parker	37	2:38.21 Karen Burton	36	24.99 S Neilson-Bell	43
4:39.44 Laureen Welting	33	18:42.73 Joan A Smith	37	2:39.57 Cokie Lepinski	39	25.57 Gayle Wettach	42
4:39.77 Laurel Hill	30	18:53.13 Marguerite Meyer	39	• 50 YD BUTTERFLY		26.16 Jennifer Luker	42
4:39.91 Jennifer Ridge	30	18:56.28 Rachel Windsor	36	25.88 TRACIE MOLL	99	26.34 Cathy Drozda	40
4:44.10 Shelia Taormina	30	19:01.15 Robin Klestinec	37	25.88 Tracie Moll	35	26.51 Penny Noyes	44
4:51.45 Lisa Hjerpe	30	19:02.20 Deborah Zimic	36	26.29 D Graner-Gallas	35	26.52 Karen Morrison	40
4:51.60 Janet Harlow	30	19:06.31 Nancy J Rose	37	27.14 Beth Baker	38	26.57 Maryanne Keever	43
4:54.52 Terri O Wyels	31	• 50 YD BACKSTROKE		27.24 K Pipes-Neilsen	37	26.59 Robynn Masters	40
4:55.82 A Luallen-Scholz	33	27.02 K PIPES-NEILSEN	97	27.43 Jill S Hernandez	38	26.61 Melinda Mann	42
4:56.71 Tiffany Forbes	32	27.32 D Graner-Gallas	35	28.06 Caroline Krattli	36	26.68 Barb Handler	41
		27.59 K Pipes-Neilsen	37	28.10 Becky Heller	35	26.68 Mary Lippold	43
<u>WOMEN 35-39</u>		28.68 Vibeke Swanson	37	28.14 Susanne Simpson	39	• 100 YD FREESTYLE	
• 50 YD FREESTYLE		28.81 Lisa Ward	35	28.30 Andrea Block	37	52.72 S NEILSON-BELL	96
23.53 S NEILSON-BELL	96	29.02 Beth Baker	38	28.32 Cynthia Lichtman	35	56.62 Jennifer Luker	42
24.16 Tracie Moll	35	29.13 Karen Andrews	36	• 100 YD BUTTERFLY		56.82 Robynn Masters	40
24.53 K Pipes-Neilsen	37	29.16 Liz Hobbs	37	56.90 SUSAN HALFACRE	88	56.84 Gayle Wettach	42
24.64 Liz Hobbs	37	29.32 Laurie P Vidal	36	57.10 Tracie Moll	35	56.91 Lo Knapp	44
24.89 Dea Fredrick	37	29.53 Penny Leach	36	58.08 K Pipes-Neilsen	37	57.85 Cathy Drozda	40
24.98 Caroline Krattli	37	29.62 Tracie Moll	35	59.13 Jill Hernandez	38	58.29 Barbara Crowder	41
25.05 Beth Baker	38	• 100 YD BACKSTROKE		59.38 Beth Baker	38	58.30 Mary Lippold	43
25.37 Jill S Hernandez	38	56.81 K PIPES-NEILSEN	98	1:01.76 Andrea Block	37	58.40 Penny Noyes	44
25.40 Becky Heller	35	56.81 K Pipes-Neilsen	37	1:01.89 Susanne Simpson	39	58.47 Jane Ziegler	44
25.65 Mari Druueckhammer	35	58.93 D Graner-Gallas	35	1:02.48 Cynthia Lichtman	35	58.50 Barb Handler	41
25.68 Karen Allen	35	59.32 Vibeke Swanson	37	1:02.54 Cory J Mackie	35	58.50 Marguerite Meyer	40
• 100 YD FREESTYLE		1:00.56 Lisa Ward	35	1:03.01 Cathy Shonkwiler	38	• 200 YD FREESTYLE	
51.54 S NEILSON-BELL	95	1:00.61 Laurie Vidal	36	1:03.43 Margee Curran	38	1:58.79 LAURA VAL	94
52.76 K Pipes-Neilsen	37	1:00.95 Beth Baker	38	• 200 YD BUTTERFLY		1:59.18 Suzann Heim-Bowen	40
53.05 D Graner-Gallas	35	1:02.60 Liz Hobbs	37	2:04.88 K PIPES-NEILSEN	97	2:03.75 Barbara Crowder	41
53.30 Tracie Moll	35	1:02.66 Zena Courtney	39	2:06.16 K Pipes-Neilsen	37	2:04.82 Marguerite Meyer	40
54.16 Laurie Vidal	36	1:03.24 Karen Andrews	36	2:06.53 Tracie Moll	35	2:06.31 Lo Knapp	44
54.72 Beth Baker	38	1:03.64 Penny Leach	36	2:11.39 Karen Burton	36	2:06.51 Wendy Weil	40
54.98 Liz Hobbs	37	• 200 YD BACKSTROKE		2:11.67 June Ford	37	2:07.69 Mindy Hamway	40
55.18 Becky Heller	35	2:00.54 K PIPES-NEILSEN	98	2:16.02 Susanne Simpson	39	2:08.00 Jane Burks	41
55.24 Vibeke Swanson	37	2:01.21 K Pipes-Neilsen	37	2:17.24 Cynthia Lichtman	35	2:08.13 Mary Lippold	43
55.47 Dea Fredrick	37	2:06.02 D Graner-Gallas	35	2:18.05 Beth Baker	38	2:08.24 Cindy S Lee	41
55.91 Rachel Windsor	36	2:11.88 Lisa Ward	35	2:18.20 April Long	38	2:08.32 Maura Campion	41
• 200 YD FREESTYLE		2:11.89 Vibeke Swanson	37	2:18.26 Robin Klestinec	37	• 500 YD FREESTYLE	
1:51.55 K PIPES-NEILSEN	97	2:15.98 Zena Courtney	39	2:20.72 Andrea Block	37	5:13.06 S HEIM-BOWEN	99
1:53.35 Jill Hernandez	38	2:19.52 Beth Baker	38	• 100 YD INDIVIDUAL MEDLEY		5:13.06 Suzann Heim-Bowen	40
1:53.43 Tracie Moll	35	2:20.27 Karen Burton	36	58.60 K PIPES-NEILSEN	97	5:33.78 Wendy Weil	40
1:54.12 K Pipes-Neilsen	37	2:21.57 Caroline Krattli	37	58.92 K Pipes-Neilsen	37	5:34.16 Marguerite Meyer	40
1:54.28 D Graner-Gallas	35	2:22.41 Robin Klestinec	37	1:00.89 Caroline Krattli	37	5:38.36 Barbara Crowder	41
1:56.46 Laurie Vidal	36	2:24.51 Monica Bailey	37	1:01.43 Beth Baker	38	5:40.89 Linda Buchanan	41
1:58.46 Margee Curran	38	• 50 YD BREASTSTROKE		1:01.81 Lisa Ward	35	5:41.09 Katherine Branch	41
2:00.72 Vibeke Swanson	37	30.81 CAROLINE KRATTLI	99	1:02.72 Jill S Hernandez	38	5:41.30 Lo Knapp	44
2:01.23 Susanne Simpson	39	30.81 Caroline Krattli	37	1:03.26 Vibeke Swanson	37	5:41.46 Mindy Hamway	40
2:01.81 Wendy Ingraham	35	31.52 K Pipes-Neilsen	37	1:03.91 Laurie P Vidal	36	5:41.84 Jane Burks	41
2:02.66 Cathy Shonkwiler	38	32.70 Beth Scheimann	37	1:04.61 April Long	38	5:42.44 Charlene O'Brien	42
• 500 YD FREESTYLE		33.32 Paula Pollard	35	1:05.01 Dea Fredrick	37	• 1000 YD FREESTYLE	
4:56.09 K PIPES-NEILSEN	97	33.44 Maud Orlando	36	• 200 YD INDIVIDUAL MEDLEY		10:40.82 S HEIM-BOWEN	99
5:02.12 K Pipes-Neilsen	37	33.59 Susan Richmond	37	2:05.24 K PIPES-NEILSEN	98	10:40.82 Suzann Heim-Bowen	40
5:04.63 Karen Burton	36	33.61 Patricia Powis	38	2:05.55 K Pipes-Neilsen	37	11:11.81 Marguerite Meyer	40
5:04.79 Jill Hernandez	38	33.65 Hilary Main	39	2:11.21 Jill Hernandez	38	11:33.34 Barbara Crowder	41
		33.69 Lisa Kuwahara	36				

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11:35.68 Bridget Vache 43	1:15.93 Lisa Bennett 42	5:13.94 Charlene O'Brien 42	21:11.78 Mary B Windrath 46
11:44.76 Katherine Branch 41	• 200 YD BREASTSTROKE	5:16.86 B Morse-Gillham 42	21:17.84 Debbie Wilson 45
11:44.93 Constance Hallett 40	2:33.01 DEA ANN JOSLIN 99	5:18.56 Melinda Mann 42	21:23.03 Luanne Beinke 45
11:47.83 Tracy L Grilli 42	2:33.01 Dea Ann Joslin 40	5:19.35 Mary Curl 42	21:38.00 Christie Ciraulo 45
11:51.86 Heidi Christensen 40	2:39.24 Eileen Wall 41	5:20.37 Cathy Cooley 41	• 50 YD BACKSTROKE
11:51.96 Lo Knapp 44	2:39.46 Melinda Mann 42	5:21.15 Pam Martin 41	28.26 LAURA VAL 97
12:01.67 Ellen Moratti 40	2:40.57 Lo Knapp 44	5:22.05 Susan M Ritter 41	28.61 Laura B Val 47
• 1650 YD FREESTYLE	2:41.69 Bridget Vache 43		29.40 Nancy-Leig Fisher 47
17:51.95 S HEIM-BOWEN 99	2:42.42 Maria Klein 40	WOMEN 45-49	30.75 Joel Feldmann 47
17:51.95 Suzann Heim-Bowen 40	2:42.67 Tonya Berg 40	• 50 YD FREESTYLE	30.79 Ann Guins 45
18:32.06 Marguerite Meyer 40	2:42.94 Judy Tibma 40	25.10 LAURA VAL 99	30.95 Jane Ziegler 45
18:41.89 Robynn Masters 40	2:47.17 Lisa Bennett 42	25.10 Laura Val 47	31.21 Karlene Wise 45
19:01.01 Katherine Branch 41	2:48.80 Susan M Ritter 41	25.61 Jacki Hirsty 46	31.58 Carol Pflugheber 45
19:25.83 Jane Burks 41	• 50 YD BUTTERFLY	26.14 Joel Feldmann 47	31.94 Cynthia Stonesifer 46
19:36.73 Bridget Vache 43	26.46 LAURA VAL 93	26.16 Nancy-Leig Fisher 47	32.51 Jan Pesavento 47
19:37.60 Barbara Crowder 41	27.70 Jennifer Luker 42	26.36 Jane Ziegler 45	32.62 Regin Brittingham 47
19:55.58 Heidi Christensen 40	28.19 S Neilson-Bell 43	26.37 Karlene Wise 45	• 100 YD BACKSTROKE
20:16.84 Maggie Hopper 41	28.25 Suzann Heim-Bowen 40	26.82 Cynthia Stonesifer 46	1:01.50 LAURA VAL 97
20:32.20 Tracy Grilli 42	28.49 Karen Morrison 40	26.84 Danielle Ogier 46	1:03.69 Laura B Val 47
• 50 YD BACKSTROKE	28.71 Charlene O'Brien 42	26.86 Debbie Glassman 45	1:05.54 Nancy-Leig Fisher 47
27.91 LAURA VAL 92	28.72 Leslie Ulen 41	27.05 Regin Brittingham 47	1:06.81 Danielle Ogier 46
30.14 Patty Landers 42	28.73 Barbara Crowder 41	• 100 YD FREESTYLE	1:07.26 Jane Ziegler 45
30.45 Alur Hasselquist 41	28.92 Stephanie Rollins 44	54.26 LAURA VAL 98	1:08.57 Karlene Wise 45
30.84 Carole Shigaki 43	28.96 Maryanne Keever 43	54.40 Laura Val 47	1:09.44 Carol Pflugheber 45
30.93 Leslie Ulen 41	29.02 Melinda Mann 42	55.87 Jacki Hirsty 46	1:09.86 Jan Pesavento 47
31.03 Maryanne Keever 43	• 100 YD BUTTERFLY	57.30 Danielle Ogier 46	1:10.61 Ann Guins 45
31.05 Penny Noyes 44	59.22 LAURA VAL 92	57.44 Nancy-Leig Fisher 47	1:10.90 Cynthia Stonesifer 46
31.36 Marilyn Early 41	1:02.00 Suzann Heim-Bowen 40	58.26 Karlene Wise 45	1:10.94 Denise Kirwan 47
31.45 Jane Ziegler 44	1:03.09 Bridget Vache 43	58.46 Jane Ziegler 45	• 200 YD BACKSTROKE
31.80 Suzanne Brause 42	1:03.42 Charlene O'Brien 42	58.70 Regin Brittingham 47	2:19.10 CECILA MCCLOSKEY 97
31.87 Tracy L Grilli 42	1:04.26 Melinda Mann 42	59.94 Jonelle Schmidt 48	2:26.05 Nancy-Leig Fisher 47
• 100 YD BACKSTROKE	1:04.40 Maura Campion 41	59.98 Joel Feldmann 47	2:26.33 Beverly Bickell 45
1:01.38 LAURA VAL 96	1:05.13 Mary Lippold 43	1:00.58 Denise Kirwan 47	2:26.56 Danielle Ogier 46
1:03.82 Patty Landers 42	1:05.28 Barbara Crowder 41	• 200 YD FREESTYLE	2:28.57 Jonelle Schmidt 48
1:04.77 Laur Hasselquist 41	1:05.31 Leslie Ulen 41	2:00.60 LAURA VAL 99	2:32.14 Camille Panigetti 48
1:06.68 Robynn Masters 40	1:05.78 Karen Morrison 40	2:00.60 Laura B Val 47	2:32.35 Karlene Wise 45
1:07.25 Leslie Ulen 41	1:05.87 Wendy Weil 40	2:04.12 Jacki Hirsty 46	2:33.53 Denise Kirwan 47
1:07.27 Penny Noyes 44	• 200 YD BUTTERFLY	2:04.89 Danielle Ogier 46	2:33.59 Maryann Stevens 45
1:07.58 Carole Shigaki 43	2:11.08 LAURA VAL 92	2:05.81 Nancy-Leig Fisher 47	2:33.98 Jan Pesavento 47
1:07.70 Katherine Branch 41	2:13.30 Suzann Heim-Bowen 40	2:08.69 Jonelle Schmidt 48	2:35.48 Laurie Finke 47
1:07.82 B Morse-Gillham 42	2:18.27 Robynn Masters 40	2:10.68 Celeste Miller 49	• 50 YD BREASTSTROKE
1:08.19 Marilyn Early 41	2:24.55 Charlene O'Brien 42	2:11.59 Jane Ziegler 45	32.82 SUSAN ROY 94
1:08.39 Jane Ziegler 44	2:26.31 Susan Skiff 44	2:12.54 Regin Brittingham 47	35.17 Danielle Ogier 46
• 200 YD BACKSTROKE	2:29.65 Marguerite Meyer 40	2:14.09 Karlene Wise 45	35.35 A Wright-Belknap 48
2:16.96 PATTY LANDERS 98	2:30.02 Mary Lippold 43	2:14.69 Debra Doman 46	35.48 Cynthia Stonesifer 46
2:19.00 Patty Landers 42	2:31.28 Pam Martin 41	• 500 YD FREESTYLE	35.83 Deb Walker 47
2:19.73 Robynn Masters 40	2:31.99 Laura Worden 41	5:27.02 LAURA VAL 99	36.45 Nancy Ehrke 45
2:21.00 Katherine Branch 41	2:32.47 Jane Burks 41	5:27.02 Laura B Val 47	36.53 Patricia Mattson 45
2:21.89 Laur Hasselquist 41	2:33.77 Joanne Wainwright 43	5:36.16 Danielle Ogier 46	36.76 Mary Gregorio 46
2:24.56 Dea Ann Joslin 40	• 100 YD INDIVIDUAL MEDLEY	5:36.91 Jacki Hirsty 46	36.78 Catherine Kohn 45
2:25.12 B Morse-Gillham 42	1:02.91 S NEILSON-BELL 97	5:38.93 Nancy-Leig Fisher 47	36.88 Mary P Anderson 45
2:27.48 Suzann Heim-Bowen 40	1:04.06 S Neilson-Bell 43	5:41.33 Celeste Miller 49	36.90 Susan Maritzel 46
2:27.86 Jane Ziegler 44	1:05.25 Melinda Mann 42	5:49.44 Karlene Wise 45	• 100 YD BREASTSTROKE
2:29.09 Leslie Ulen 41	1:05.80 Cathy Drozda 40	5:54.96 Kathi Bullock 45	1:11.83 SUSAN ROY 94
2:29.37 Carole Shigaki 43	1:06.03 Barbara Crowder 41	5:59.50 Heidi Ernst 46	1:16.92 Deb Walker 47
• 50 YD BREASTSTROKE	1:07.06 Therese Harrigan 40	5:59.98 Regin Brittingham 47	1:18.85 Catherine Kohn 46
32.36 ROSEMARIE SEAMAN 98	1:07.39 Jennifer Luker 42	6:00.66 Carolyn Roche 48	1:18.89 Cynthia Stonesifer 46
32.41 Dea Ann Joslin 40	1:07.39 Maria Klein 40	• 1000 YD FREESTYLE	1:19.31 A Wright-Belknap 48
33.44 Melinda Mann 42	1:07.41 Gayle Wettach 42	11:21.39 LAURA VAL 99	1:19.46 Holly MacMurray 48
34.21 Lisa Bennett 42	1:07.78 Leslie Ulen 41	11:21.39 Laura B Val 47	1:19.72 Patricia Mattson 45
34.38 Eileen Wall 41	1:07.80 Patty Landers 42	11:30.62 Danielle Ogier 46	1:20.06 Nancy Ehrke 45
34.43 Maria Klein 40	• 200 YD INDIVIDUAL MEDLEY	11:33.74 Nancy-Leig Fisher 47	1:20.87 Jan Pesavento 47
34.60 Cathy Drozda 40	2:17.08 S NEILSON-BELL 96	11:57.21 Celeste Miller 49	1:21.64 Mary Wohl Haan 45
34.63 Judy Tibma 42	2:20.81 S Neilson-Bell 43	11:57.31 Karlene Wise 45	1:21.76 P Kawakami 48
35.18 Tonya Berg 40	2:23.45 Lo Knapp 44	12:07.81 Kathi Bullock 45	• 200 YD BREASTSTROKE
35.21 Therese Harrigan 40	2:23.69 Barbara Crowder 41	12:22.21 Terry Gault 48	2:38.38 SUSAN ROY 94
35.66 Markley Rizzi 40	2:25.08 Melinda Mann 42	12:25.62 Carolyn Roche 48	2:42.83 Gillian Heath 45
• 100 YD BREASTSTROKE	2:25.43 B Morse-Gillham 42	12:44.58 Mary B Windrath 46	2:44.10 Danielle Ogier 46
1:10.26 DEA ANN JOSLIN 99	2:25.47 Bridget Vache 43	12:45.62 Priscila Kawakami 48	2:46.46 Catherine Kohn 46
1:10.26 Dea Ann Joslin 40	2:26.39 Patty Landers 43	• 1650 YD FREESTYLE	2:48.34 Deb Walker 47
1:13.22 Melinda Mann 42	2:28.25 Charlene O'Brien 42	19:09.33 LAURA VAL 99	2:51.10 Cathy Schulbach 45
1:14.18 Bridget Vache 43	2:28.99 Gayle Wettach 42	19:09.33 Laura B Val 47	2:53.43 P Kawakami 48
1:15.02 Colette Crabbe 42	2:30.42 Tracy L Grilli 42	19:36.82 Nancy Fisher 47	2:53.47 Teri Hendryx 45
1:15.06 Tonya Berg 40	• 400 YD INDIVIDUAL MEDLEY	20:14.84 Terry Gault 48	2:53.56 Holly MacMurray 48
1:15.08 Maria Klein 40	4:55.16 LAURA VAL 96	20:20.78 Kathi Bullock 45	2:53.59 Denise Kirwan 46
1:15.18 Eileen Wall 41	5:04.20 Suzann Heim-Bowen 40	21:03.53 Cathy Schulbach 45	2:54.78 Patricia Mattson 45
1:15.35 Cathy Drozda 40	5:05.71 Bridget Vache 43	21:11.48 Sherry Kittrell 47	• 50 YD BUTTERFLY
1:15.56 Judy Tibma 42	5:13.24 Marguerite Meyer 40		27.02 LAURA VAL 98

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27.74 Laura Val 47	29.08 Carolyn Boak 53	36.94 Mary Pohlmann 54	1:15.55 Sherry Puthoff 51
28.76 Joel Feldmann 47	29.17 Kathrine Casey 50	100 YD BACKSTROKE	1:17.84 Suzanne Dills 54
28.88 Debbie Glassman 45	29.25 Gerre Jones 50	1:10.58 BETTY BENNETT 94	1:18.39 Sandi Rousseau 51
29.16 Karen Rosener 45	29.26 Ann Lyttle 51	1:13.25 Mimi Frank 52	1:20.73 Chris Weber 51
29.51 Maryann Stevens 45	29.34 Sally A Dillon 52	1:13.56 Ruth Shaps 51	1:20.76 Ginger Pierson 52
29.53 Karlene Wise 45	29.66 Mimi Frank 52	1:15.36 Sherry Puthoff 51	1:21.15 Kristina King 51
29.76 Jacki Hirsty 46	29.74 Christie Hayes 50	1:15.69 Jeannie Mitchell 52	1:21.31 Kathrine Casey 50
29.97 Regin Brittingham 47	100 YD FREESTYLE	1:16.44 Lynn Cartee 51	200 YD BUTTERFLY
30.00 Cynthia Stonesifer 46	59.05 ARDETH MUELLER 93	1:16.75 Andrea Haines 51	2:25.73 ARDETH MUELLER 92
30.28 Debra Doman 46	1:01.42 Carolyn Boak 54	1:17.18 Kathrine Casey 50	2:25.83 Barbara G Dunbar 50
100 YD BUTTERFLY	1:01.75 Franci Williamson 51	1:19.14 Jane Gram 52	2:56.37 Ginger Pierson 52
1:00.37 LAURA VAL 97	1:02.65 Barbara G Dunbar 50	1:19.53 Marcia Barry 50	3:00.03 Sandi Rousseau 51
1:00.78 Laura Val 47	1:04.43 Ann Lyttle 51	1:19.67 Linda Gilchrist 52	3:00.08 Kathrine Casey 50
1:05.38 Maryann Stevens 45	1:04.69 Kathrine Casey 50	200 YD BACKSTROKE	3:00.35 Susan Tyler 50
1:05.85 Debbie Glassman 45	1:05.03 Marcia Barry 50	2:37.19 BETTY BENNETT 94	3:02.09 Kat Clark 50
1:07.22 Cynthia Stonesifer 46	1:06.32 Barbara Bos 50	2:40.90 Mimi Frank 52	3:04.60 Lynn Cartee 51
1:08.76 Regin Brittingham 47	1:06.66 Ruth Y Shaps 51	2:42.16 Ruth Shaps 51	3:06.25 Mary Pohlmann 54
1:09.20 Camille Panigetti 48	1:06.94 Linda McHenry 51	2:45.52 Andrea Haines 51	3:09.69 Jean Wood 51
1:10.26 Carol Pflugheber 45	1:07.63 M Diaz MacArtney 50	2:49.17 Kathrine Casey 50	3:11.62 Margot Pettijohn 52
1:10.41 Terry Gault 48	200 YD FREESTYLE	2:49.26 Jeannie Mitchell 52	100 YD INDIVIDUAL MEDLEY
1:10.45 Jan Miller 48	2:11.99 ARDETH MUELLER 94	2:49.89 Mary Pohlmann 54	1:08.59 DIANA TODD 94
1:11.02 Susan Marintel 46	2:13.15 Barbara G Dunbar 50	2:50.41 Constance Sasser 52	1:09.52 Kat Clark 50
200 YD BUTTERFLY	2:15.65 Carolyn Boak 54	2:50.56 Chris Weber 51	1:10.17 Carolyn Boak 54
2:13.34 LAURA VAL 99	2:16.21 Franci Williamson 51	2:50.87 Christine Zimmet 51	1:13.07 Barbara G Dunbar 50
2:13.34 Laura Val 47	2:20.16 Marcia Barry 50	2:52.27 Marcia Barry 50	1:14.38 Mimi Frank 52
2:36.48 Debbie Glassman 45	2:21.33 Sally A Dillon 52	50 YD BREASTSTROKE	1:14.60 Franci Williamson 51
2:39.08 Kathi Bullock 45	2:21.80 Ann Lyttle 51	34.89 DIANA TODD TAFT 94	1:14.98 Ruth Shaps 51
2:39.19 Terry Gault 48	2:22.45 Kathrine Casey 50	35.35 Carolyn Boak 54	1:15.05 Kathrine Casey 50
2:42.54 Karen Reilly 45	2:23.43 Kristina King 51	36.07 Kat Clark 50	1:15.20 Lynn Cartee 51
2:45.62 Nancy Fisher 47	2:23.79 Barbara Bos 50	36.91 Christie Hayes 50	1:16.22 Sherry Puthoff 51
2:45.63 Teri Hendryx 45	2:24.75 Suzanne Dills 53	37.66 Kathrine Casey 50	1:16.76 Christie Hayes 50
2:46.12 Christie Ciraulo 45	500 YD FREESTYLE	37.74 Gerre Jones 50	200 YD INDIVIDUAL MEDLEY
2:47.78 Regin Brittingham 47	5:51.95 BARBARA DUNBAR 99	37.91 Margot Pettijohn 52	2:30.89 BARBARA DUNBAR 99
2:48.81 Catherine Quill 49	5:51.95 Barbara G Dunbar 50	37.91 Lynn Cartee 51	2:30.89 Barbara G Dunbar 50
100 YD INDIVIDUAL MEDLEY	6:10.88 Marcia Barry 50	38.00 Ginger Pierson 52	2:36.83 Carolyn Boak 54
1:03.83 LAURA VAL 97	6:14.01 Franci Williamson 51	38.34 Sally A Dillon 52	2:42.43 Kat Clark 50
1:05.10 Laura B Val 47	6:17.28 Carolyn Boak 53	38.49 Meegan Wilson 50	2:46.98 Lynn Cartee 51
1:05.17 Danielle Ogier 46	6:22.58 Barbara Bos 50	100 YD BREASTSTROKE	2:47.43 Christie Hayes 50
1:07.25 Jonelle Schmidt 48	6:23.35 Ann Lyttle 51	1:15.73 GINGER PIERSON 96	2:48.21 Ginger Pierson 52
1:07.62 Joel Feldmann 47	6:23.36 Kristina King 51	1:19.90 Kat Clark 50	2:48.59 Suzanne Dills 54
1:07.74 Jacki Hirsty 46	6:25.57 Joan Diercks 51	1:20.35 Carolyn Boak 54	2:50.29 Kathrine Casey 50
1:08.17 Cynthia Stonesifer 46	6:26.44 Kathrine Casey 50	1:21.38 Christie Hayes 50	2:50.76 Marcia Barry 50
1:09.13 Camille Panigetti 48	6:29.52 Sally A Dillon 52	1:21.81 Margot Pettijohn 52	2:51.52 Chris Weber 51
1:09.38 Jane Ziegler 45	1000 YD FREESTYLE	1:21.81 Ginger Pierson 52	400 YD INDIVIDUAL MEDLEY
1:10.00 Debbie Glassman 45	11:55.06 BARBARA DUNBAR 99	1:22.32 Meegan Wilson 50	5:18.46 BARBARA DUNBAR 99
1:10.25 Debra Doman 46	11:55.06 Barbara G Dunbar 50	1:24.10 Sally A Dillon 52	5:18.46 Barbara G Dunbar 50
200 YD INDIVIDUAL MEDLEY	12:39.71 Marcia Barry 50	1:25.29 Kathrine Casey 50	5:57.46 Kathrine Casey 50
2:20.08 DANIELLE OGIER 99	12:47.84 Franci Williamson 51	1:25.29 Gerre Jones 50	6:02.68 Chris Weber 51
2:20.08 Danielle Ogier 46	13:09.38 Joan Diercks 51	1:25.54 Carol A Carroll 52	6:04.12 Ginger Pierson 52
2:26.33 Jonelle Schmidt 48	13:09.58 Barbara Bos 50	200 YD BREASTSTROKE	6:13.58 Margot Pettijohn 52
2:30.87 Maryann Stevens 45	13:11.82 Kathrine Casey 50	2:45.26 GINGER PIERSON 96	6:15.32 Jean Wood 51
2:30.98 Catherine Kohn 46	13:21.77 Ann Lyttle 51	2:57.63 Meegan Wilson 50	6:16.63 Susan Yeomans 50
2:35.86 Kathi Bullock 45	13:25.39 Kristina King 51	2:59.65 Ginger Pierson 52	6:18.04 Joan Diercks 51
2:35.91 Cynthia Stonesifer 46	13:49.95 Nancy Puckett 50	3:00.82 Daniela Barnea 54	6:18.56 Alice Zabudsky 53
2:36.29 Debbie Glassman 45	13:58.26 Christine Zimmet 51	3:01.87 Kat Clark 50	6:21.01 Christine Zimmet 51
2:36.35 Debra Doman 46	1650 YD FREESTYLE	3:03.40 Margot Pettijohn 52	
2:38.40 Patricia Mattson 45	20:03.98 BARBARA DUNBAR 99	3:05.11 Christie Hayes 51	WOMEN 55-59
2:38.84 Mary B Windrath 46	20:03.98 Barbara G Dunbar 50	3:05.39 Kathrine Casey 50	
400 YD INDIVIDUAL MEDLEY	21:18.07 Marcia Barry 50	3:07.66 Sally A Dillon 52	50 YD FREESTYLE
5:00.85 DANIELLE OGIER 99	21:49.79 Suzanne Dills 54	3:08.40 Chris Clum 53	27.48 NANCY RIDOUT 98
5:00.85 Danielle Ogier 46	21:55.99 Barbara Bos 50	3:08.82 Maureen Kikut 54	28.19 Nancy J Ridout 57
5:26.67 Kathi Bullock 45	22:29.56 Kathrine Casey 50	50 YD BUTTERFLY	28.81 Ardeth Mueller 57
5:27.76 Catherine Kohn 46	23:13.62 Vicki Barnes 51	28.64 DIANA TODD TAFT 94	29.14 Joy Ward 56
5:28.26 Nancy Fisher 47	23:48.92 Christine Zimmet 51	30.82 Kat Clark 50	29.17 Judy Reed 55
5:35.60 Patricia Mattson 45	23:49.68 Andrea Haines 50	31.38 Ruth Shaps 51	29.84 Jackie Marr 55
5:36.66 Teri Hendryx 45	24:04.75 Betsy Bunting 50	31.49 Barbara G Dunbar 50	31.11 Barbara Frid 56
5:44.16 Nancy Surdoval 45	24:15.78 Mary Pohlmann 54	31.85 Susan Tyler 50	31.15 Beth Schreiner 58
5:44.25 Mary B Windrath 46	50 YD BACKSTROKE	32.08 Ellen J Rockholm 50	31.28 Nancy Brooks 56
5:45.87 Laurie Finke 47	32.66 BETTY BENNETT 94	32.18 Sandi Rousseau 51	31.76 Jayne Lambke 59
5:49.14 Karen Bierwert 46	33.53 Mimi Frank 52	33.18 M Diaz MacArtney 50	31.87 Sue Calnek-Morris 56
	33.62 Kat Clark 50	33.45 Mimi Frank 51	100 YD FREESTYLE
WOMEN 50-54	34.12 Ruth Y Shaps 51	33.64 Jean Turner 51	1:01.79 NANCY RIDOUT 98
50 YD FREESTYLE	35.26 Ellen J Rockholm 50	33.81 Kathrine Casey 50	1:03.14 Nancy J Ridout 57
26.65 DIANA TODD 97	35.76 Jeannie Mitchell 52	100 YD BUTTERFLY	1:05.23 Jackie Marr 55
28.43 Franci Williamson 51	36.01 Andrea Haines 51	1:05.69 ARDETH MUELLER 92	1:05.34 Judy Reed 55
28.69 Susan Roy 51	36.34 Jane Gram 52	1:07.04 Barbara G Dunbar 50	1:06.76 Joy Ward 56
29.02 Ruth Shaps 51	36.45 Kathrine Casey 50	1:13.04 Susan Tyler 50	1:09.37 Jayne Lambke 59
	36.47 Lynn Cartee 51	1:13.66 M Diaz MacArtney 50	1:11.50 Barbara Frid 56

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1:11.64 Beth Schreiner 58	2:49.20 Jackie Marr 55	3:25.72 Carolyn Behse 56	2:50.00 Margie Heineman 60
1:11.79 Pooky Walker 56	2:52.00 Jane Katz 55	3:26.92 Elaine Bromwich 56	* 500 YD FREESTYLE
1:12.62 Sue Calnek-Morris 55	2:59.70 Chris Gilligan 55	3:27.87 Pamela Himstreet 55	6:22.62 LAVELLE STOINOFF 93
1:12.66 Nancy Murphy 56	2:59.96 Betsy Durrant 57	3:30.39 Elizabeth Johnson 59	6:48.69 Susan Munn 60
* 200 YD FREESTYLE	3:01.32 Lynne Lund 58	* 100 YD INDIVIDUAL MEDLEY	7:00.94 Claire O'Brien 60
2:15.35 ARDETH MUELLER 99	3:03.10 Barbara Frid 57	1:12.56 JAYNE BRUNER 92	7:05.32 Susan Bradley-Cox 61
2:15.35 Ardeth Mueller 57	3:04.29 Jennifer Parks 55	1:14.51 Ardeth Mueller 57	7:06.88 Nancy Brown 63
2:22.29 Nancy J Ridout 57	3:06.02 Pooky Walker 56	1:15.70 Barbara Frid 57	7:16.77 Ronnie Kamphausen 64
2:29.38 Carol Jewell 56	3:07.29 Elaine Bromwich 56	1:17.04 Jackie Marr 55	7:17.45 Betsy T Jordan 62
2:32.50 Jackie Marr 55	3:12.76 Susan Meyers 57	1:17.20 Susan Peterson 56	7:26.42 Susan Livingston 60
2:37.33 Jayne Lambke 59	* 50 YD BREASTSTROKE	1:17.75 Joy Ward 56	7:28.21 Barb Zaremski 60
2:37.98 Sue Calnek-Morris 55	35.16 JAYNE BRUNER 91	1:19.71 Judy Reed 55	7:30.31 Judy Puleston 63
2:40.61 Betsy Durrant 56	37.06 Daniela Barnea 55	1:20.77 Daniela Barnea 55	7:32.29 Joann Leilich 60
2:41.18 Barbara Frid 56	38.66 Joann Leilich 59	1:20.85 Mirjana Prather 55	* 1000 YD FREESTYLE
2:44.02 Susan Meyers 57	39.21 Nancy Brooks 56	1:21.98 Nancy Brooks 56	13:12.73 LAVELLE STOINOFF 93
2:44.43 Chris Gilligan 55	39.49 Elaine Bromwich 56	1:22.85 Jackie Murphy 55	13:56.92 Susan Munn 60
* 500 YD FREESTYLE	39.70 Mirjana Prather 55	* 200 YD INDIVIDUAL MEDLEY	14:19.19 Claire O'Brien 60
6:01.12 ARDETH MUELLER 99	40.46 Jackie Murphy 55	2:37.45 ARDETH MUELLER 99	14:27.46 Nancy Brown 63
6:01.12 Ardeth Mueller 57	40.92 Barbara Frid 56	2:37.45 Ardeth Mueller 57	14:40.38 Susan Bradley-Cox 61
6:34.09 Jackie Marr 55	41.40 Ros Bird 56	2:47.63 Jackie Marr 55	14:59.49 Betsy T Jordan 61
6:35.87 Nancy J Ridout 57	41.49 Jackie Marr 55	2:54.47 Susan Peterson 56	15:10.10 Susan Livingston 60
6:40.28 Carol Jewell 56	41.59 C Tyree-Dewell 55	2:55.01 Daniela Barnea 55	15:22.67 Barbara Zaremski 61
6:50.31 Elaine Bromwich 56	* 100 YD BREASTSTROKE	2:58.65 Lynne Lund 58	15:48.27 Patricia Bond 61
6:58.65 Barbara Frid 57	1:18.52 JAYNE BRUNER 91	2:59.26 Jayne Lambke 59	15:50.22 Ronnie Kamphausen 64
7:03.65 Sue Calnek-Morris 56	1:23.16 Daniela Barnea 55	3:00.56 Elaine Bromwich 56	15:53.25 Margie Heineman 61
7:05.89 Jayne Lambke 59	1:24.03 Joann Leilich 59	3:04.97 Betsy Durrant 56	* 1650 YD FREESTYLE
7:17.71 Betsy Durrant 56	1:25.66 Nancy Brooks 56	3:07.92 Susan Meyers 57	22:13.13 LAVELLE STOINOFF 93
7:24.63 Judy Reed 55	1:26.51 Barbara Frid 57	3:10.01 Vivia Reinikainen 56	23:03.39 Susan Munn 60
* 1000 YD FREESTYLE	1:27.08 Elaine Bromwich 56	* 400 YD INDIVIDUAL MEDLEY	23:55.47 Claire O'Brien 60
12:20.65 ARDETH MUELLER 99	1:27.22 Mirjana Prather 55	5:39.55 ARDETH MUELLER 98	24:05.89 Nancy Brown 63
12:20.65 Ardeth Mueller 57	1:30.08 Jackie Marr 55	5:44.22 Ardeth Mueller 57	24:16.51 Susan Bradley-Cox 61
13:47.03 Carol Jewell 56	1:30.26 Betsy Durrant 56	5:59.56 Jackie Marr 55	24:53.58 Betsy T Jordan 61
14:09.63 Barbara Frid 57	1:30.55 Jackie Murphy 55	6:23.29 Elaine Bromwich 56	25:46.88 Barbara Zaremski 61
14:42.64 Sue Calnek-Morris 55	1:31.34 Susan Peterson 56	6:27.00 Lynne Lund 58	27:17.61 Tessie Branscomb 63
15:03.09 Jayne Lambke 59	* 200 YD BREASTSTROKE	6:28.93 Susan Peterson 56	27:56.91 Tanako Hagiwara 60
15:03.78 Pooky Walker 56	2:55.47 ELAINE BROMWICH 98	6:34.93 Jayne Lambke 59	29:37.05 Ingrid Stine 60
15:10.92 Louise Wise 56	2:59.03 Joann Leilich 59	6:36.84 Susan Meyers 57	30:17.30 Joyce M Haworth 61
15:11.48 Lynne Lund 58	2:59.49 Daniela Barnea 55	6:41.46 Pamela Himstreet 55	* 50 YD BACKSTROKE
15:26.87 Pamela Himstreet 55	3:04.69 Elaine Bromwich 56	6:42.50 Pooky Walker 56	34.16 BETSY JORDAN 98
15:49.30 Jennifer Parks 55	3:08.94 Nancy Brooks 56	6:49.83 Elizabeth Johnson 59	35.84 Betsy T Jordan 61
* 1650 YD FREESTYLE	3:10.82 Jackie Marr 55		37.67 Nancy Brown 63
21:12.19 ARDETH MUELLER 98	3:13.47 Pamela Himstreet 55	WOMEN 60-64	38.85 Bervely Myers 63
20:58.61 Ardeth Mueller 57NV	3:16.37 Betsy Durrant 56		38.90 Barbara Jordan 61
23:28.58 Elaine Bromwich 56	3:20.71 Elizabeth Johnson 59	* 50 YD FREESTYLE	39.78 Claire O'Brien 60
24:10.40 Sue Calnek-Morris 56	3:24.35 Carolyn Behse 56	28.79 JAYNE BRUNER 95	39.79 Susan Livingston 60
25:10.45 Lynne Lund 58	3:24.87 Lynne Lund 58	30.76 Jeanne Little 62	40.34 Ann Kay 64
25:40.38 Jennifer Parks 55	* 50 YD BUTTERFLY	31.23 Barbara Zaremski 61	40.38 Doris Klitzke 63
26:08.27 Rosalyn Schanzer 56	29.73 ARDETH MUELLER 98	31.78 Virginia Ridpath 61	40.49 Ronnie Kamphausen 64
26:10.15 Pamela Himstreet 55	31.60 Joy Ward 56	32.53 Sally Newell 61	40.64 Juanita Correa 63
26:26.40 Bonnie Kotzbach 55	32.05 Barbara Frid 57	32.68 Claire O'Brien 60	* 100 YD BACKSTROKE
26:30.53 Sally Bolar 59	32.11 Nancy J Ridout 57	32.69 Ronnie Kamphausen 64	1:15.64 BETSY JORDAN 97
26:37.24 Marlee Valderhaug 57	32.82 Carol Jewell 56	32.82 Susan Bradley-Cox 61	1:19.38 Betsy Jordan 62
* 50 YD BACKSTROKE	32.98 Judy Reed 55	33.02 Juanita Correa 63	1:23.00 Nancy Brown 63
32.97 BETSY JORDAN 93	33.76 Susan Peterson 56	33.06 Charlotte Jenkins 60	1:25.92 Ann Kay 64
35.60 Joy Ward 56	34.13 Jackie Marr 55	33.07 Betsy Jordan 61	1:26.31 Bervely Myers 63
35.74 Barbara Frid 57	34.56 Sandy Etnyre 57	* 100 YD FREESTYLE	1:27.98 Susan L Munn 60
36.99 Pooky Walker 56	34.59 Jayne Lambke 59	1:04.87 JAYNE BRUNER 97	1:28.08 Susan Livingston 60
37.50 Jackie Marr 55	35.36 Mirjana Prather 55	1:11.03 Jeanne Little 62	1:29.19 Margit Jebe 60
37.64 Lynne Lund 58	* 100 YD BUTTERFLY	1:11.41 Claire O'Brien 60	1:30.12 Doris Klitzke 63
38.00 Jane Katz 55	1:09.90 ARDETH MUELLER 99	1:11.70 Barbara Zaremski 61	1:31.12 Dorothy Whitehead 63
38.66 Joy Rogers 57	1:09.90 Ardeth Mueller 57	1:11.75 Nancy Brown 63	1:31.48 Ronnie Kamphausen 64
38.88 Chris Gilligan 55	1:15.63 Nancy J Ridout 57	1:12.17 Susan Bradley-Cox 61	* 200 YD BACKSTROKE
38.93 Betsy Durrant 57	1:15.88 Carol Jewell 56	1:14.50 Juanita Correa 63	2:42.86 BETSY JORDAN 97
39.31 C Tyree-Dewell 55	1:21.76 Lynne Lund 58	1:14.65 Ronnie Kamphausen 64	2:54.12 Betsy Jordan 62
* 100 YD BACKSTROKE	1:23.80 Jackie Marr 55	1:14.82 Virginia Ridpath 61	2:56.26 Nancy Brown 63
1:11.11 BETSY JORDAN 92	1:24.99 Jayne Lambke 59	1:14.97 Beverly Myers 63	3:04.04 Susan Livingston 60
1:18.16 Joy Ward 56	1:29.35 Susan Meyers 57	1:15.56 Ann Kay 64	3:10.09 Ann Kay 64
1:18.61 Barbara Frid 57	1:31.83 Sally Bolar 59	* 200 YD FREESTYLE	3:10.22 Bervely Myers 63
1:22.16 Pooky Walker 56	1:33.08 Pamela Himstreet 55	2:25.85 LAVELLE STOINOFF 95	3:11.91 Susan Bradley-Cox 61
1:22.65 Lynne Lund 58	1:35.90 Joyce Kowalski 57	2:33.69 Susan Munn 60	3:14.68 Susan L Munn 60
1:22.74 Jackie Marr 55	* 200 YD BUTTERFLY	2:38.21 Nancy Brown 63	3:15.90 Margit Jebe 60
1:23.11 Chris Gilligan 55	2:37.57 ARDETH MUELLER 99	2:38.70 Claire O'Brien 60	3:16.59 Doris Klitzke 63
1:23.58 Betsy Durrant 57	2:37.57 Ardeth Mueller 57	2:40.25 Susan Bradley-Cox 61	3:18.54 Ronnie Kamphausen 64
1:25.60 Jennifer Parks 55	3:00.36 Jackie Marr 55	2:41.13 Barbara Zaremski 61	* 50 YD BREASTSTROKE
1:26.72 Susan Peterson 56	3:03.13 Carol Jewell 56	2:41.98 Ronnie Kamphausen 64	36.88 JAYNE BRUNER 96
1:27.67 Joy Rogers 57	3:06.70 Lynne Lund 58	2:43.74 Betsy T Jordan 62	37.36 Joann Leilich 60
* 200 YD BACKSTROKE	3:22.13 Jayne Lambke 59	2:47.42 Charlotte Jenkins 60	40.47 Sally Newell 61
2:34.80 BETSY JORDAN 92	3:25.53 Sally Bolar 59	2:48.90 Beverly Myers 63	42.11 Margie Heineman 60

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42.17 Margit Jebe 60	1:28.80 Ann Kay 64	13:51.06 Lavelle Stoinoff 66	1:40.61 Ida Smith 65
42.21 Susanne Schumann 61	200 YD INDIVIDUAL MEDLEY 97	15:02.78 Ronnie Kamphausen 65	1:44.71 Carol Ferguson 67
43.04 Jacquelyn Piper 62	2:50.10 JAYNE BRUNER 62	15:52.28 Ann M Hirsch 68	1:45.88 Barbara Callison 66
44.13 Betsy T Jordan 61	2:54.32 Susan Munn 60	16:06.26 Lida Gaschke 66	1:48.98 Cindy Baxter 66
44.25 Beverly Myers 63	2:54.56 Betsy Jordan 62	16:12.75 Joan Campbell 69	200 YD BREASTSTROKE 99
44.97 Ann Johnsen 63	3:01.82 Joann Leilich 60	16:38.61 Donna Monroe 65	3:15.88 ANN HIRSCH 99
45.16 Helen Geoffrion 60	3:04.20 Nancy Brown 63	16:46.60 Malchia Olshan 68	3:15.88 Ann M Hirsch 68
100 YD BREASTSTROKE 99	3:05.03 Beverly Myers 63	17:00.73 Barbara Callison 66	3:23.46 Lavelle Stoinoff 66
1:22.04 JOANN LEILICH 99	3:09.84 Susan Bradley-Cox 61	17:33.52 Margaret Homans 66	3:24.38 Lilly Kron 67
1:22.04 Joann Leilich 60	3:10.82 Claire O'Brien 60	17:48.25 Nancy Durstein 69	3:34.12 Carol Taylor 69
1:31.88 Margit Jebe 60	3:11.49 Ronnie Kamphausen 64	1650 YD FREESTYLE 98	3:35.01 Sylvia Eisele 69
1:32.63 Sally Newell 61	3:12.25 Barbara Zaremski 61	23:09.53 LAVELLE STOINOFF 98	3:38.78 Barbara Callison 66
1:34.10 Susanne Schumann 61	3:13.39 Janice Miller 60	23:12.59 Lavelle Stoinoff 66	3:41.42 Joan Alexander 67
1:35.23 Margie Heineman 60	400 YD INDIVIDUAL MEDLEY 97	25:25.00 Ronnie Kamphausen 65	3:43.80 Ida Smith 65
1:35.36 Jacquelyn Piper 62	6:12.27 BETSY JORDAN 97	26:30.88 Lida Gaschke 67	3:59.70 Joan Campbell 68
1:35.59 Beverly Myers 63	6:18.49 Joann Leilich 60	27:04.79 Malchia Olshan 68	4:00.57 Peggy Buchanan 66
1:38.16 Doris Prokopi 62	6:22.97 Susan Munn 60	27:16.81 Joan Campbell 68	50 YD BUTTERFLY 96
1:38.23 Nancy Brown 62	6:28.43 Nancy Brown 63	27:24.48 Donna Monroe 65	34.45 GAIL ROPER 96
1:39.47 Erika Silva 61	6:30.96 Betsy Jordan 62	27:47.02 Barbara Callison 66	36.08 Gail Roper 69
200 YD BREASTSTROKE 99	6:41.47 Susan Bradley-Cox 61	28:54.71 Margaret Homans 66	36.57 Ann Kay 65
2:56.39 JOANN LEILICH 99	6:43.97 Susan Livingston 60	29:35.07 Nancy Durstein 69	38.75 Ronnie Kamphausen 65
2:56.39 Joann Leilich 60	6:44.12 Janice Miller 60	31:13.87 Jean M Duncan 66	40.55 Barbara Callison 66
3:16.49 Margit Jebe 60	6:52.58 Ronnie Kamphausen 64	50 YD BACKSTROKE 92	42.47 Joan Alexander 67
3:19.82 Sally Newell 61	7:00.70 Barbara Zaremski 61	36.03 CLARA WALKER 92	43.31 Ann M Hirsch 68
3:22.16 Beverly Myers 63	7:29.18 Jane Oberg 61	37.86 Ann Kay 65	43.40 Lida Gaschke 67
3:24.75 Susanne Schumann 61		40.30 Ronnie Kamphausen 65	44.42 Carol Taylor 69
3:26.99 Janice Miller 60	WOMEN 65-69	40.59 Gail Roper 69	44.76 Ida Smith 65
3:28.74 Jacquelyn Piper 61		41.53 Barbara Jackson 69	45.20 Lavelle Stoinoff 66
3:32.87 Erika Silva 61	50 YD FREESTYLE 97	41.90 S Robbins-Bonitz 65	100 YD BUTTERFLY 96
3:33.69 Nancy Brown 62	30.45 GAIL ROPER 97	43.03 Judy Chadima 69	1:23.49 GAIL ROPER 96
3:37.05 Ann B Johnsen 63	32.27 Gail Roper 69	43.39 Nancy Macbeth 69	1:28.51 Ronnie Kamphausen 65
50 YD BUTTERFLY 95	32.28 Ronnie Kamphausen 65	45.61 Carol Taylor 69	1:28.70 Gail Roper 69
33.07 JAYNE BRUNER 95	33.23 Ann Kay 65	45.94 Ann M Hirsch 68	1:35.48 Ann M Hirsch 68
36.36 Betsy Jordan 61	33.45 Lavelle Stoinoff 66	46.00 Phillis Wilson 65	1:40.67 Barbara Callison 66
36.90 Jeanne Little 62	34.87 Barbara Callison 66	100 YD BACKSTROKE 94	1:41.33 Joan Alexander 67
36.92 Charlotte Jenkins 60	34.92 Diane Reed 68	1:21.36 CLARA WALKER 94	1:42.61 Sylvia Eisele 69
37.89 Ann Kay 64	35.38 Lida Gaschke 67	1:24.62 Lavelle Stoinoff 66	1:45.11 Carol Taylor 69
37.94 Ronnie Kamphausen 64	35.61 Nancy Macbeth 69	1:25.27 Ann Kay 65	1:49.19 Jill Coleman 68
38.29 Juanita Correa 63	35.99 Barbara Jackson 69	1:31.33 Barbara Jackson 69	1:49.98 Malchia Olshan 68
38.64 Midge Kraetzer 60	36.65 Gay Collins 68	1:31.55 Ronnie Kamphausen 65	1:53.37 Lilly Kron 67
38.73 Nancy Brown 62	100 YD FREESTYLE 96	1:35.18 Nancy Macbeth 69	200 YD BUTTERFLY 94
38.92 Beverly Myers 63	1:08.78 GAIL ROPER 96	1:36.69 S Robbins-Bonitz 65	3:11.22 JUNE KRAUSER 94
39.99 Claire O'Brien 60	1:11.81 Lavelle Stoinoff 66	1:37.52 Judy Chadima 69	3:25.22 Ronnie Kamphausen 65
100 YD BUTTERFLY 96	1:12.91 Ronnie Kamphausen 65	1:38.85 Ann M Hirsch 68	3:31.79 Ann M Hirsch 68
1:18.64 JAYNE BRUNER 96	1:13.08 Gail Roper 69	1:39.15 Dena Mann 67	3:41.95 Joan Alexander 67
1:24.84 Betsy T Jordan 62	1:17.30 Diane Reed 68	1:40.72 Barbara Callison 66	3:42.56 Sylvia Eisele 69
1:25.55 Susan L Munn 60	1:19.57 Lida Gaschke 67	200 YD BACKSTROKE 99	3:56.10 Barbara Callison 66
1:26.84 Midge Kraetzer 60	1:19.61 Dena Mann 67	2:56.66 LAVELLE STOINOFF 99	3:57.18 Lilly Kron 66
1:27.77 Janice Miller 60	1:19.98 Barbara Callison 66	2:56.66 Lavelle Stoinoff 66	4:01.65 Malchia Olshan 68
1:31.77 Susan Livingston 60	1:21.39 Jean Garbus 65	3:01.65 Ann Kay 65	4:06.69 Joan Campbell 68
1:32.15 Margit Jebe 60	1:22.33 Ann M Hirsch 68	3:14.60 Nancy Macbeth 69	4:09.52 Jill Coleman 68
1:34.85 Susan Bradley-Cox 61	1:23.36 Nan Bohl 69	3:15.73 Ronnie Kamphausen 65	4:20.34 Nancy Durstein 69
1:35.10 Jeanne Little 62	200 YD FREESTYLE 98	3:26.23 Barbara Jackson 69	100 YD INDIVIDUAL MEDLEY 96
1:36.91 Ronnie Kamphausen 64	2:32.93 LAVELLE STOINOFF 98	3:29.84 Jill Coleman 68	1:19.21 GAIL ROPER 69
1:37.77 Doris Klitzke 63	2:33.48 Lavelle Stoinoff 66	3:31.78 Barbara Callison 66	1:23.97 Gail Roper 69
200 YD BUTTERFLY 96	2:42.05 Ronnie Kamphausen 65	3:34.75 Judy Chadima 69	1:27.33 Lavelle Stoinoff 66
3:06.99 NANCY BROWN 96	2:55.92 Diane Reed 68	3:37.63 Ann M Hirsch 68	1:27.75 Ronnie Kamphausen 65
3:12.86 Betsy Jordan 62	2:56.98 Barbara Callison 66	3:39.34 S Robbins-Bonitz 65	1:27.80 Nancy Macbeth 69
3:18.00 Nancy Brown 63	2:57.24 Lida Gaschke 67	50 YD BREASTSTROKE 93	1:29.35 Ann M Hirsch 68
3:19.21 Janice Miller 60	2:57.88 Ann M Hirsch 68	40.79 CLARA WALKER 93	1:32.64 Barbara Callison 66
3:22.36 Susan Livingston 60	2:58.10 Dena Mann 67	42.14 Ann M Hirsch 68	1:33.32 Lida Gaschke 67
3:29.33 Midge Kraetzer 60	3:02.23 Malchia Olshan 68	43.29 Sylvia Eisele 69	1:37.53 Barbara Jackson 69
3:42.22 Jane Oberg 61	3:03.81 Joan Campbell 69	43.63 Lilly Kron 66	1:38.00 Lilly Kron 67
3:45.70 Sara Snoek 60	3:03.87 Donna Monroe 65	44.21 Carol Taylor 69	1:38.69 Jean Garbus 65
3:50.23 Patricia Tullman 61	500 YD FREESTYLE 99	45.46 Ida Smith 65	200 YD INDIVIDUAL MEDLEY 96
3:51.89 Ingrid Stine 60	6:39.23 LAVELLE STOINOFF 99	46.06 Irma I Reimer 66	2:54.51 CLARA WALKER 92
3:53.48 Barbara Zaremski 61	6:39.23 Lavelle Stoinoff 66	46.17 Ronnie Kamphausen 65	3:08.18 Lavelle Stoinoff 66
100 YD INDIVIDUAL MEDLEY 97	7:10.98 Ronnie Kamphausen 65	47.69 Lida Gaschke 67	3:11.38 Gail Roper 69
1:16.66 JAYNE BRUNER 97	7:48.66 Diane Reed 68	48.82 Mickey Shockley 69	3:12.14 Nancy Macbeth 69
1:22.37 Betsy T Jordan 61	7:54.14 Malchia Olshan 68	49.86 Hannelore Snyder 68	3:12.39 Ronnie Kamphausen 65
1:22.70 Joann Leilich 60	7:54.49 Ann M Hirsch 68	100 YD BREASTSTROKE 93	3:16.71 Ann M Hirsch 68
1:23.15 Nancy Brown 62	7:55.96 Lida Gaschke 67	1:29.00 CLARA WALKER 93	3:22.39 Barbara Callison 66
1:23.74 Claire O'Brien 60	7:57.11 Joan Campbell 69	1:31.75 Ann Hirsch 68	3:33.87 Joan Alexander 67
1:25.10 Beverly Myers 63	8:02.19 Donna Monroe 65	1:35.84 Gail Roper 69	3:35.60 Lilly Kron 66
1:25.91 Susan L Munn 60	8:03.07 Barbara Callison 66	1:35.99 Lilly Kron 66	3:38.33 Jill Coleman 68
1:26.72 Ronnie Kamphausen 64	8:20.63 Judy Chadima 69	1:36.97 Sylvia Eisele 69	3:42.12 Carol Taylor 69
1:28.24 Margie Heineman 60	1000 YD FREESTYLE 99	1:37.76 Lavelle Stoinoff 66	400 YD INDIVIDUAL MEDLEY 93
1:28.39 Sue Straley 62	13:51.06 LAVELLE STOINOFF 99	1:37.96 Carol Taylor 69	6:24.09 CLARA WALKER 93

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

<p>6:47.40 Ronnie Kamphausen 65 6:55.15 Nancy Macbeth 69 7:09.29 Ann M Hirsch 68 7:13.59 Barbara Callison 66 7:16.07 Carol Taylor 69 7:21.68 Sylvia Eisele 69 7:33.98 Joan Alexander 67 7:36.94 Lilly Kron 67 7:41.33 Joan Campbell 69 7:55.90 Nancy Durstein 69</p> <p style="text-align: center;">WOMEN 70-74</p> <p>• 50 YD FREESTYLE 33.26 CLARA WALKER 97 34.58 Jean Troy 71 34.63 Nancy Macbeth 70 36.41 June Krauser 72 36.99 Betty Russ 72 37.11 Della Sehorn 71 37.54 Florence Carr 73 37.87 Edie Gruender 70 37.91 Petey Smith 74 39.15 Suzanne Graham 72 39.89 Lois Nochman 74</p> <p>• 100 YD FREESTYLE 1:15.16 CLARA WALKER 97 1:17.15 Jean Troy 71 1:20.18 June Krauser 72 1:21.07 Betty Russ 72 1:22.14 Edie Gruender 70 1:23.89 Florence Carr 73 1:26.07 Della M Sehorn 71 1:27.94 Suzanne Graham 73 1:28.17 Lois Kivi Nochman 74 1:29.10 Petey Smith 74 1:29.21 Betty Lorenzi 71</p> <p>• 200 YD FREESTYLE 2:45.76 CLARA WALKER 97 2:49.08 Jean Troy 71 2:51.14 June Krauser 72 3:00.90 Edie Gruender 70 3:08.83 Betty Russ 72 3:10.17 Florence Carr 73 3:14.23 Betty Lorenzi 71 3:16.23 Lois Kivi Nochman 74 3:17.43 Ruth Aaron 70 3:18.14 Petey Smith 74 3:21.92 Betty Mc Millan 70</p> <p>• 500 YD FREESTYLE 7:24.26 JUNE KRAUSER 97 7:34.89 June Krauser 72 7:42.43 Jean Troy 71 7:59.92 Hedy Esposito 70 8:19.68 Edie Gruender 70 8:29.30 Betty Lorenzi 71 8:39.28 Lois Nochman 74 8:47.76 Ruth Aaron 70 8:53.74 Betty Mc Millan 70 9:03.85 Petey Smith 74 9:04.34 Anita Hazen 71</p> <p>• 1000 YD FREESTYLE 15:06.37 JUNE KRAUSER 98 15:16.71 June Krauser 72 16:09.98 Jean Troy 71 17:07.85 Betty Lorenzi 71 17:26.83 Edie Gruender 70 17:48.96 Lois Kivi Nochman 74 18:26.79 Betty Mc Millan 70 18:26.90 Florence Carr 73 18:47.92 Anita Hazen 71 18:49.73 Nan Blackledge 74 19:07.08 Joan Mc Intyre 70</p> <p>• 1650 YD FREESTYLE 25:17.77 JUNE KRAUSER 99 25:17.77 June Krauser 72 28:51.60 Ruth Aaron 70 29:22.02 Lois Nochman 74</p>	<p>29:59.12 Betty Mc Millan 70 30:14.64 Edie Gruender 70 31:34.55 Joan Mc Intyre 70 31:44.03 Anita L Hazen 71 32:43.52 Peggy Sanborn 71 32:45.06 Jeanne Meredith 70 33:03.11 Nan L Blackledge 74</p> <p>• 50 YD BACKSTROKE 38.00 DORIS STEADMAN 95 39.89 Doris Steadman 74 40.47 Nancy Mac Beth 70 42.58 Della Sehorn 71 43.96 June Krauser 72 44.63 Betty Lorenzi 71 45.08 Lois Kivi Nochman 74 45.32 Betty Russ 71 47.93 Florence Carr 73 48.15 M J Amsbary 73 48.44 Joan McIntyre 70</p> <p>• 100 YD BACKSTROKE 1:24.70 DORIS STEADMAN 95 1:28.52 Doris Steadman 74 1:30.11 Nancy Mac Beth 70 1:34.97 Della Sehorn 71 1:35.37 June Krauser 72 1:37.33 Betty Lorenzi 71 1:41.74 Betty Russ 71 1:42.29 Edie Gruender 70 1:42.52 Florence Carr 73 1:44.92 Peggy Sanborn 71 1:45.84 Joan McIntyre 70</p> <p>• 200 YD BACKSTROKE 3:10.78 DORIS STEADMAN 95 3:11.61 Nancy Mac Beth 74 3:11.88 Doris Steadman 74 3:18.06 June Krauser 72 3:32.28 Betty Lorenzi 71 3:35.01 Della M Sehorn 74 3:36.03 Joan McIntyre 70 3:38.12 Lois Kivi Nochman 74 3:42.41 Jeane Gruender 70 3:44.30 Peggy Sanborn 71 3:44.59 Betty Russ 71</p> <p>• 50 YD BREASTSTROKE 43.46 CAROL TAYLOR 99 43.46 Carol Taylor 70 47.68 June Krauser 72 48.14 Mickey Shockley 70 48.69 M J Amsbary 73 50.54 Lois Kivi Nochman 74 51.11 Jean Troy 71 51.19 Suzanne Graham 72 51.27 Miriam Tuovila 73 52.85 Florence Carr 73 54.48 Bunny S Dawson 70</p> <p>• 100 YD BREASTSTROKE 1:34.61 CAROL TAYLOR 99 1:34.61 Carol Taylor 70 1:42.52 June Krauser 72 1:45.48 Mickey Shockley 70 1:50.73 Suzanne Graham 72 1:53.35 Jean Troy 71 1:53.40 M J Amsbary 73 1:53.84 Lois Kivi Nochman 74 1:56.39 Pat Dockendorf 71 1:57.00 Miriam Tuovila 73 1:58.44 Ruth Aaron 70</p> <p>• 200 YD BREASTSTROKE 3:29.68 CAROL TAYLOR 99 3:29.68 Carol Taylor 70 3:37.65 Pat Dockendorf 71 3:41.62 June Krauser 72 3:52.10 Mickey Shockley 70 3:57.18 Suzanne Graham 72 3:59.92 Lois Kivi Nochman 74 4:04.01 Ruth Aaron 70 4:10.18 Bunny Dawson 71 4:14.90 Betty Russ 71</p>	<p>4:17.68 Estelle Shuer 72</p> <p>• 50 YD BUTTERFLY 39.91 JUNE KRAUSER 97 40.52 June Krauser 72 41.24 Lois Kivi Nochman 74 42.42 Carol Taylor 70 42.81 Edie Gruender 70 44.64 Jean Troy 71 45.10 Della M Sehorn 71 46.12 Betty Russ 72 47.91 Mickey Shockley 70 49.41 Florence Carr 73 51.33 Betty Kercheval 74</p> <p>• 100 YD BUTTERFLY 1:29.07 JUNE KRAUSER 97 1:33.38 June Krauser 72 1:36.22 Carol Taylor 70 1:38.93 Nancy Macbeth 70 1:43.04 Lois Kivi Nochman 74 1:43.99 Edie Gruender 70 1:46.79 Jean Troy 71 1:48.60 Betty Russ 72 2:01.19 Ruth Manfredi 74 2:05.83 Mariann Hagan 70 2:06.03 Elfriede Rogers 71</p> <p>• 200 YD BUTTERFLY 3:16.51 JUNE KRAUSER 97 3:22.89 June Krauser 72 3:45.67 Lois Kivi Nochman 74 3:50.47 Jean Troy 71 3:51.50 Betty Russ 72 4:32.13 Elfriede Rogers 71 4:41.00 Gladys Olsen 72 4:59.59 Mariann Hagan 70 5:00.70 Marian Walle 71 5:22.56 Joan McIntyre 70 5:59.79 Gloria M Stupfel 72</p> <p>• 100 YD INDIVIDUAL MEDLEY 1:26.80 NANCY MACBETH 99 1:26.80 Nancy Mac Beth 70 1:32.26 June Krauser 72 1:36.79 Jean Troy 71 1:37.75 Della M Sehorn 71 1:39.11 Lois Kivi Nochman 74 1:40.14 Betty Russ 72 1:41.51 Florence Carr 73 1:45.15 Betty Lorenzi 71 1:46.35 Mickey Shockley 70 1:47.83 Suzanne Graham 73</p> <p>• 200 YD INDIVIDUAL MEDLEY 3:09.25 JUNE KRAUSER 96 3:12.26 Nancy Mac Beth 70 3:16.54 June Krauser 72 3:30.30 Della Sehorn 71 3:31.08 Jean Troy 71 3:32.25 Lois Nochman 74 3:35.66 Edie Gruender 70 3:48.31 Betty Russ 71 3:49.78 Florence Carr 73 4:05.95 Joan McIntyre 70 4:06.03 Elfriede A Rogers 71</p> <p>• 400 YD INDIVIDUAL MEDLEY 6:41.58 JUNE KRAUSER 98 6:49.69 Nancy Mac Beth 70 6:52.19 June Krauser 72 7:18.92 Carol Taylor 70 7:32.72 Edie Gruender 70 7:39.40 Jean Troy 71 7:41.67 Lois Nochman 74 8:32.76 Ruth Aaron 70 8:41.22 Joan McIntyre 70 8:50.08 Elfriede Rogers 71 9:08.40 Gladys Olsen 72</p>	<p>36.37 Margery Meyer 76 37.23 Dorothy Donnelly 76 37.85 Betty Christian 77 37.98 Ruth Baar 76 40.34 Bunny Cederlund 76 41.06 Phyllis B Staige 75 42.47 Jeanne Merryman 75 43.40 Marjorie Stone 75 43.55 Diana M Silva 76 44.36 Billie Burrill 78</p> <p>• 100 YD FREESTYLE 1:20.83 MARGERY MEYER 98 1:22.20 Margery Meyer 76 1:26.37 Dorothy Donnelly 76 1:27.79 Ruth Baar 76 1:30.36 Phyllis B Staige 75 1:33.33 Sue Marvel 79 1:34.59 Bunny Cederlund 76 1:36.16 Grace Altus 75 1:41.70 Marjorie Stone 75 1:42.91 Ruth Manfredi 75 1:43.30 Billie A Burrill 78</p> <p>• 200 YD FREESTYLE 2:58.74 MARGERY MEYER 99 2:58.74 Margery Meyer 76 3:15.10 Ruth Baar 76 3:17.17 Dorothy Donnelly 76 3:24.74 Grace Altus 75 3:26.82 Ruth Manfredi 75 3:27.69 Phyllis B Staige 75 3:33.06 Marjorie Stone 75 3:37.38 Bunny Cederlund 76 3:46.75 Billie Burrill 78 3:47.75 Maurine Kornfeld 76</p> <p>• 500 YD FREESTYLE 8:01.81 MARGERY MEYER 98 8:08.58 Margery Meyer 76 8:46.94 Grace Altus 75 8:59.84 Ruth Manfredi 75 9:06.00 Phyllis B Staige 75 9:14.81 Marjorie Stone 75 9:19.73 Dorothy Donnelly 76 9:53.12 Diana M Silva 77 9:54.15 Rita Costello 76 9:56.10 Maurine Kornfeld 76 10:05.13 Ruth Morrill 75</p> <p>• 1000 YD FREESTYLE 16:27.17 MARGERY MEYER 99 16:27.17 Margery Meyer 76 18:10.86 Grace Altus 75 18:35.03 Ruth Manfredi 75 19:24.97 Sue Marvel 79 20:39.32 Maurine Kornfeld 77 21:26.52 Billie Burrill 78 22:18.47 Doris Russell 78 23:37.12 Jane Rossell 77 23:37.15 Mary Wixted 77 25:39.14 Marion Chadwick 77</p> <p>• 1650 YD FREESTYLE 27:33.86 MARGERY MEYER 99 27:33.86 Margery Meyer 76 29:36.22 Grace Altus 75 31:16.22 Ruth Manfredi 75 37:58.54 Marjorie Newman 75 40:21.27 Jane Rossell 77 44:41.83 Marion Chadwick 77 48:25.85 Judy Melcher 78 49:14.16 Elfie Stevenin 77 72:43.11 Margaret Hagerty 75</p> <p>• 50 YD BACKSTROKE 42.92 BUNNY CEDERLUND 97 44.22 Marge Bowdon 75 44.95 Margery Meyer 76 46.31 Bunny Cederlund 77 46.51 Regan Kenner 75 46.60 Betty Christian 77 48.21 Sarah Allnutt 75 48.25 Dorothy Donnelly 77</p>
<p>WOMEN 75-79</p> <p>• 50 YD FREESTYLE 36.17 LENORE WINGARD 87</p>			

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49.83 Jeanne Merryman 75	2:07.35 June Reynolds 77	1:59.22 Marie Wicklun 84	5:06.45 Jo Lacy 81
50.73 Ruth Baar 76	2:07.68 Ruth Manfredi 75	2:01.38 Kay Schimpf 81	• 50 YD BREASTSTROKE
50.77 Diana M Silva 76	2:08.91 Sarah Allnutt 75	2:02.24 Mardie Brown 81	55.19 RITA SIMONTON 99
• 100 YD BACKSTROKE	2:09.54 Jae Howell 76	• 200 YD FREESTYLE	55.19 Rita Simonton 80
1:38.41 R BILLARD MORRILL 99	2:14.11 Doris Russell 78	3:14.68 RITA SIMONTON 99	59.46 Gertrud Zint 81
1:38.36 Ruth Morrill 75NV	2:28.74 Hildegard Huggins 76	3:14.68 Rita Simonton 80	59.62 Sally Joy 82
1:39.32 Margery Meyer 76	2:33.03 Mary Wixted 77	3:27.74 Marjorie W Sharpe 82	1:01.77 Edith Glusac 80
1:41.06 Regan Kenner 75	2:33.90 Jean Zulich 78	3:49.81 Audrey H Etienne 82	1:06.36 Jean D Durston 84
1:43.72 Diana Silva 77	2:42.80 Dorothy Kimmel 77	4:05.98 Anne Walker 83	1:08.08 Kay Schimpf 81
1:47.56 Marge Bowdon 75	• 200 YD BUTTERFLY	4:13.51 Kay Schimpf 81	1:10.38 Pat Matthiesen 82
1:49.40 Bunny Cederlund 77	4:19.43 MAXINE MERLINO 88	4:29.25 Ivy Browne 84	1:11.69 Margaret Nagle 82
1:52.65 Nancy Phillips 77	4:34.94 Diana Silva 77	4:29.72 Gertrud Zint 81	1:13.40 Mardie Brown 81
1:53.95 Sue Marvel 79	4:41.52 June Reynolds 76	4:40.21 Pat Matthiesen 82	1:18.09 Mary Jane Reeves 81
1:54.12 Rita Evans 79	4:41.62 Jae Howell 76	4:56.45 Mary Lathram 83	• 100 YD BREASTSTROKE
1:54.64 Sarah Allnutt 75	5:14.27 Ruth Manfredi 75	5:10.75 Jo Lacy 80	2:14.34 KAY SCHIMPF 98
• 200 YD BACKSTROKE	5:41.78 Mary Wixted 76	• 500 YD FREESTYLE	2:07.78 Rita Simonton 80NV
3:29.83 REGAN KENNER 99	7:11.91 Zada Taft 79	8:45.26 RITA SIMONTON 99	2:17.28 Maria Lenk-Zigler 84
3:29.83 Regan Kenner 75	8:04.30 Elfie Stevenin 77	8:40.31 Rita Simonton 80NV	2:18.06 Gertrud Zint 81
3:31.02 Ruth Morrill 76	• 100 YD INDIVIDUAL MEDLEY	9:18.52 Marjorie W Sharpe 82	2:18.52 Edith Glusac 80
3:50.29 Diana Silva 77	1:43.48 MARGERY MEYER 99	10:48.08 Maria Lenk-Zigler 84	2:22.09 Sally Joy 82
3:51.24 Margery Meyer 76	1:43.48 Margery Meyer 76	10:59.22 Kay Schimpf 81	2:36.60 Kay Schimpf 81
3:55.59 Rita Evans 79	1:46.08 Betty Christian 77	11:16.84 Agnes Romayko 84	2:40.72 Mardie Brown 81
3:55.59 Bunny Cederlund 77	1:51.86 Dorothy Donnelly 77	11:58.09 Margaret Nagle 81	2:51.63 Pat Matthiesen 82
4:05.31 Nancy Phillips 77	1:54.26 Sarah Allnutt 75	12:03.50 Pat Matthiesen 82	3:35.24 Helen Schuchart 80
4:17.03 Elinor Wright 75	1:54.77 Diana M Silva 76	12:10.73 Gertrud Zint 81	3:39.22 Roberta Sugden 82
4:19.64 Jae Howell 76	1:56.48 Ruth Manfredi 75	13:04.22 Mary Lathram 83	• 200 YD BREASTSTROKE
4:22.62 Minna Hamner 76	1:57.01 Muriel Flynn 76	13:28.00 Martha Forster 81	4:26.58 RITA SIMONTON 99
• 50 YD BREASTSTROKE	1:57.36 June Reynolds 77	• 1000 YD FREESTYLE	4:26.58 Rita Simonton 80
48.53 GERTRUD ZINT 93	1:58.61 Marianna Berkley 76	17:51.67 RITA SIMONTON 99	5:10.63 Sally Joy 82
48.85 Betty Christian 77	1:58.75 Jae Howell 75	17:51.67 Rita Simonton 80	5:11.35 Jean D Durston 84
49.78 Regan Kenner 75	• 200 YD INDIVIDUAL MEDLEY	18:58.24 Marjorie Sharpe 82	5:15.06 Edith Glusac 80
53.07 Marge Bowdon 75	3:52.62 GERTRUD ZINT 94	21:17.64 Jean Durston 84	5:15.30 Gertrud Zint 81
53.55 Jae Howell 76	4:06.10 Dorothy Donnelly 77	22:24.61 Kay Schimpf 81	5:33.03 Kay Schimpf 81
53.61 Sarah Allnutt 75	4:11.57 Ruth Manfredi 75	25:47.61 Mary Lathram 83	5:52.20 Mary Jane Reeves 81
54.09 Muriel Flynn 76	4:13.92 Diana M Silva 77	27:47.72 Martha Forster 82	6:52.74 Pat Matthiesen 82
55.28 Marjorie Stone 75	4:15.00 Muriel Flynn 76	• 1650 YD FREESTYLE	8:03.77 Ruth Wunderlich 80
55.62 Margery Meyer 76	4:24.51 June Reynolds 77	31:00.08 MARJORIE SHARPE 98	8:30.44 Rose Steward 81
56.79 Marianna Berkley 76	4:25.50 Jae Howell 76	30:00.58 Rita Simonton 80NV	• 50 YD BUTTERFLY
58.39 Minna Hamner 76	4:29.13 Grace Altus 75	35:31.34 Jean D Durston 84	56.60 MARIA LENK 95
• 100 YD BREASTSTROKE	4:32.65 Hildegard Huggins 76	36:40.28 Maria Lenk-Zigler 84	1:01.71 Jean D Durston 84
1:49.55 GERTRUD ZINT 93	4:49.73 Mary Wixted 77	38:18.24 Kay Schimpf 81	1:02.47 Maria Lenk-Zigler 84
1:49.59 Betty Christian 77	4:56.69 Jean Zulich 78	40:04.49 Mary Jane Reeves 81	1:05.16 Gertrud Zint 81
1:51.95 Regan Kenner 75	• 400 YD INDIVIDUAL MEDLEY	43:42.99 Mary Lathram 83	1:05.39 Sally Joy 81
1:58.49 Muriel Flynn 76	8:10.40 MAXINE MERLINO 88	• 50 YD BACKSTROKE	1:07.43 Audrey H Etienne 82
2:05.73 Jae Howell 76	8:44.65 Diana Silva 77	50.64 MARIE WICKLUN 94	1:11.87 Mardie Brown 81
2:08.05 Marjorie Stone 75	8:51.43 Ruth Manfredi 75	50.92 Marjorie W Sharpe 82	1:14.59 Kay Schimpf 81
2:10.01 Margery Meyer 76	8:55.83 Jae Howell 76	53.46 Anne Walker 83	1:15.08 Edith Glasac 80
2:11.82 June Reynolds 77	9:28.78 June Reynolds 76	55.04 Audrey Etienne 82	1:24.75 Roberta Sugden 81
2:12.11 Minna Hamner 76	9:47.87 Mary Wixted 76	56.24 Marie Wicklun 84	1:24.95 Anne Walker 82
2:18.23 Agota Frohs 79	9:48.77 Hildegard Huggins 76	58.32 Edith Glusac 80	• 100 YD BUTTERFLY
2:18.45 Cornelia Johnson 75	10:28.45 Agota Frohs 79	58.61 Gertrud Zint 81	2:11.60 JEAN DURSTON 95
• 200 YD BREASTSTROKE	10:59.66 Edith Glusac 79	59.04 Mardie Brown 81	2:27.38 Jean D Durston 84
4:03.26 BETTY CHRISTIAN 99	11:16.68 Mimi Lee 78	1:00.66 Mary Lathram 83	2:43.91 Kay Schimpf 81
3:59.23 Regan Kenner 75NV	12:20.48 Zada Taft 79	1:00.84 Jean D Durston 84	2:46.24 Edith Glusac 80
4:03.26 Betty Christian 77		1:01.15 Sally Joy 81	3:00.42 Pat Matthiesen 82
4:12.25 Muriel Flynn 76	WOMEN 80-84	• 100 YD BACKSTROKE	• 200 YD BUTTERFLY
4:21.90 Jae Howell 76		1:49.26 MARJORIE SHARPE 97	4:40.17 JEAN DURSTON 95
4:31.42 Marjorie Stone 75	• 50 YD FREESTYLE	1:53.29 Marjorie W Sharpe 82	5:03.45 Jean D Durston 84
4:41.35 June Reynolds 77	41.32 MARJORIE SHARPE 97	1:54.44 Anne Walker 83	• 100 YD INDIVIDUAL MEDLEY
4:58.15 Mary Wixted 76	41.54 Marjorie Sharpe 82	2:04.66 Audrey Etienne 82	1:53.57 MARIA LENK 95
5:00.31 Cornelia Johnson 75	41.63 Rita Simonton 80	2:05.04 Marie Wicklun 84	2:00.41 Audrey Etienne 82
5:01.39 Agota Frohs 79	44.27 Audrey Etienne 82	2:07.97 Mardie Brown 81	2:03.11 Maria Lenk-Zigler 84
5:09.49 Gertrude Box 77	45.98 Anne Walker 83	2:10.78 Edith Glusac 80	2:09.24 Jean Durston 84
• 50 YD BUTTERFLY	47.55 Margaret Nagle 81	2:12.80 Mary Lathram 83	2:11.52 Gertrud Zint 81
47.97 GERTRUD ZINT 93	50.71 Jean D Durston 84	2:18.21 Gertrud Zint 81	2:11.98 Sally Joy 82
51.07 Diana Silva 77	51.92 Gertrud Zint 81	2:22.92 Jo Lacy 81	2:16.72 Mardie Brown 81
52.69 Doris Russell 78	52.14 Pat Matthiesen 82	2:25.89 Ivy Browne 84	2:26.44 Edith Glusac 80
53.65 Grace Altus 75	53.01 Ivy Browne 84	• 200 YD BACKSTROKE	2:31.72 Pat Matthiesen 82
54.46 Dorothy Donnelly 76	53.43 Sally Joy 81	3:51.12 MARIE WICKLUN 94	2:48.21 Helen Schuchart 80
55.01 Sarah Allnutt 75	• 100 YD FREESTYLE	4:01.10 Marjorie Sharpe 82	2:49.19 Jo Lacy 80
56.18 June Reynolds 77	1:30.49 RITA SIMONTON 99	4:14.45 Jean D Durston 84	• 200 YD INDIVIDUAL MEDLEY
56.60 Jae Howell 76	1:30.49 Rita Simonton 80	4:21.45 Marie Wicklun 84	4:14.08 MARIA LENK 95
57.98 Mary Wixted 76	1:34.72 Marjorie W Sharpe 82	4:22.52 Anne I Walker 83	4:36.47 Jean D Durston 84
1:01.74 Marianna Berkley 76	1:41.85 Audrey Etienne 82	4:45.17 Edith Glusac 80	4:39.01 Maria Lenk-Zigler 84
1:02.09 Jean Zulich 78	1:46.94 Anne Walker 83	4:48.60 Mary Lathram 83	4:59.10 Gertrud Zint 81
• 100 YD BUTTERFLY	1:57.20 Gertrud Zint 81	4:50.96 Sally Joy 82	5:12.85 Edith Glusac 80
1:56.16 DIANA SILVA 97	1:57.74 Margaret Nagle 81	5:01.12 Gertrud Zint 81	5:19.60 Kay Schimpf 81
1:57.19 Diana Silva 77	1:58.29 Jean D Durston 84	5:05.63 Kay Schimpf 81	5:47.12 Pat Matthiesen 82

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6:36.20 Roberta Sugden 82	3:18.68 Hilda G Buel 85	1:01.93 AILEEN SOULE 96	1:48.73 James Collins 24
• 400 YD INDIVIDUAL MEDLEY	3:20.98 Geneva Kahrs 85	1:12.75 Jewel Cooke 90	1:49.29 Chris Mack 23
8:59.27 JEAN DURSTON 95	• 200 YD BACKSTROKE	1:41.16 Edith Irish 92	1:49.45 Trentin Krauss 22
9:33.40 Jean Durston 84	4:09.33 AILEEN SOULE 91	• 100 YD BACKSTROKE	1:50.77 Daniel S Peck 23
11:08.02 Edith Glasac 80	4:17.07 Marie Wicklun 85	2:14.66 AILEEN SOULE 96	• 500 YD FREESTYLE
	5:13.85 Eva Muller 86	NO SWIMMERS	4:33.88 BRAD WINSOR 96
<u>WOMEN 85-89</u>	6:17.42 Hedy Pullman 87	• 200 YD BACKSTROKE	4:45.06 Adam Dawkins 23
• 50 YD FREESTYLE	6:21.16 Edith Hendry 87	4:42.55 AILEEN SOULE 96	4:48.13 Nate Moore 21
45.72 JULIA DOLCE 95	6:53.14 Geneva Kahrs 85	NO SWIMMERS	4:55.24 James Collins 24
50.93 Vivienne Cooke 86	7:04.98 Hilda G Buel 85	• 50 YD BREASTSTROKE	4:58.79 Geoffrey Waller 24
51.62 Marie Wicklun 85	• 50 YD BREASTSTROKE	1:31.63 JEWEL COOKE 99	5:01.09 Scott D Marsic 23
51.85 Julia Dolce 89	1:04.39 MARTI GOGNIAT 96	1:31.63 Jewel Cooke 90	5:01.87 Jonathn Armstrong 23
1:04.31 Pearl Sobel 87	1:18.79 Hilda G Buel 85	• 100 YD BREASTSTROKE	5:03.70 Ryan Ebens 23
1:06.18 Ellen Tait 88	1:20.12 Madeleine Miller 88	5:30.32 LUELLA TYRA 83	5:04.93 David W Reid 22
1:07.19 Edith Hendry 87	1:21.74 Marie Wicklun 85	NO SWIMMERS	5:07.60 Marcus Chung 23
1:10.02 Madeleine Miller 88	1:22.50 Marie Heikkinen 87	• 200 YD BREASTSTROKE	5:08.79 Daniel S Peck 23
1:20.89 Geneva Kahrs 85	1:28.74 Jean Chenaux 85	11:48.36 LUELLA TYRA 83	• 1000 YD FREESTYLE
1:25.09 Marie Heikkinen 87	1:52.63 Hedy Pullman 87	NO SWIMMERS	9:29.54 BRAD WINSOR 96
1:28.11 Hedy Pullman 87	2:08.56 Anne Wilder 85	• 50 YD BUTTERFLY	9:56.05 Adam Dawkins 23
• 100 YD FREESTYLE	2:24.46 Margot Lenig 87	1:39.85 JEWEL COOKE 99	10:04.98 Nate Moore 21
1:45.80 JULIA DOLCE 95	• 100 YD BREASTSTROKE	1:39.85 Jewel Cooke 90	10:24.55 James Collins 24
1:58.84 Marie Wicklun 85	2:37.71 MARTI GOGNIAT 98	• 100 YD BUTTERFLY	10:30.07 Grant Comer 24
2:02.50 Julia Dolce 89	3:07.59 Hilda Buel 85	3:26.50 JEWEL COOKE 99	10:44.27 Geoffrey Waller 24
2:05.05 Jean Chenaux 85	3:10.41 Madeleine Miller 88	3:26.50 Jewel Cooke 90	10:48.57 Ryan Ebens 23
2:08.46 Eva Muller 86	3:40.98 Hedy Pullman 87	• 200 YD BUTTERFLY	11:06.22 Holden Hardcastle 21
2:09.41 Marie Kelleher 85	4:57.00 Margot Lenig 86	7:12.95 JEWEL COOKE 98	11:15.78 Kuo Wang 24
2:27.19 Susan Hanson 86	• 200 YD BREASTSTROKE	7:12.95 Jewel Cooke 90	11:31.01 Jeff Rigg 23
2:32.81 Ellen Tait 88	5:52.31 MARTI GOGNIAT 98	• 100 YD INDIVIDUAL MEDLEY	11:34.80 Mark Urquhart 24
2:35.37 Edith Hendry 88	7:04.03 Hilda G Buel 85	2:55.27 JEWEL COOKE 99	• 1650 YD FREESTYLE
2:55.15 Geneva Kahrs 85	7:35.44 Madeleine Miller 88	2:55.27 Jewel Cooke 90	16:20.39 BRAD WINSOR 96
3:13.10 Hedy Pullman 87	8:15.59 Hedy Pullman 87	• 200 YD INDIVIDUAL MEDLEY	16:41.81 Nate Moore 21
• 200 YD FREESTYLE	• 50 YD BUTTERFLY	6:31.19 JEWEL COOKE 99	16:58.88 Adam Dawkins 23
4:08.61 JULIA DOLCE 95	1:16.00 ELLA PECKHAM 85	6:31.19 Jewel Cooke 90	17:08.02 David W Reid 22
4:18.45 Marie Wicklun 85	1:26.36 Pearl Sobel 87	• 400 YD INDIVIDUAL MEDLEY	17:24.07 James Collins 24
4:31.28 Marie Kelleher 85	1:37.64 Hilda G Buel 85	6:31.19 JEWEL COOKE 98	17:28.22 Mark Gole 22
4:49.88 Jean Chenaux 85	2:10.50 Madeleine Miller 88	13:06.38 JEWEL COOKE 90	18:02.47 Geoffrey Waller 24
4:56.73 Susan Hanson 86	• 100 YD BUTTERFLY		18:11.66 Ryan Ebens 23
5:31.53 Julia Dolce 89	3:01.71 ELLA PECKHAM 84	<u>WOMEN 95-99</u>	18:12.57 Travis Everett 22
5:36.58 Edith Hendry 87	3:31.46 Hilda G Buel 85	• 500 YD FREESTYLE	18:44.58 Holden Hardcastle 21
5:59.99 Madeleine Miller 88	• 200 YD BUTTERFLY	18:25.13 ANNA BAUSCHER 97	19:37.65 Jason Wening 24
6:13.56 Geneva Kahrs 85	6:39.85 KATHERINE PELTON 91	NO SWIMMERS	• 50 YD BACKSTROKE
• 500 YD FREESTYLE	NO SWIMMERS		23.44 JEFF THIBAUT 95
11:24.79 JULIA DOLCE 95	• 100 YD INDIVIDUAL MEDLEY	<u>MEN 19-24</u>	24.18 Mark Gole 22
12:50.70 Jean Chenaux 85	2:29.39 MARIE KELLEHER 98	• 50 YD FREESTYLE	25.04 Lee G Wanie 24
13:08.37 Susan Hanson 86	2:33.33 Eva Muller 86	20.25 ERIC MAUER 94	25.25 Nei-Kuan Chia 21
13:40.33 Julia Dolce 89	2:35.48 Marie Kelleher 85	21.06 Stephen Brauer 23	25.48 Tim Evans 19
15:05.83 Ellen Tait 88	3:10.54 Hilda G Buel 85	21.07 Ben Christoffel 24	25.78 Josh Skube 23
15:25.23 Madeleine Miller 88	3:11.29 Pearl Sobel 87	21.19 Raffi Karapetian 24	26.14 Christophe Waid 22
15:56.34 Marion Mueller 87	3:20.17 Marie Heikkinen 87	21.58 Doug Shanks 23	26.30 Peter Keckbers 21
• 1000 YD FREESTYLE	3:22.55 Madeleine Miller 88	21.79 Edward Goldstein 24	26.54 Aaron Mc Cormick 24
24:04.52 JULIA DOLCE 95	4:45.43 Margot Lenig 87	21.84 Nei-Kaun Chia 21	26.57 Kevin Everiett 24
NO SWIMMERS	• 200 YD INDIVIDUAL MEDLEY	22.01 Joe Tristan 23	26.78 Jack Methric 23
• 1650 YD FREESTYLE	5:21.65 EVA MULLER 98	22.02 David Hughes 24	• 100 YD BACKSTROKE
45:53.55 JULIA DOLCE 97	5:50.85 Eva Muller 86	22.05 Josh Skube 23	50.58 JEFF THIBAUT 95
NO SWIMMERS	6:53.73 Hilda G Buel 85	22.08 Bryan Addleman 24	52.41 Mark Gole 22
• 50 YD BACKSTROKE	8:20.51 Anne Wilder 85	• 100 YD FREESTYLE	52.50 Osiris Briseno 23
49.59 AILEEN SOULE 91	• 400 YD INDIVIDUAL MEDLEY	45.11 ERIC MAUER 94	53.36 Brett Anderson 20
56.06 Marie Wicklun 85	12:00.94 JEWEL COOKE 95	46.00 Joe Tristan 23	54.28 Nei-Kaun Chia 21
1:03.19 Vivienne Cooke 86	15:29.70 Hilda G Buel 85	46.40 Mark Gole 22	54.28 Thomas E Richner 24
1:07.30 Edith Hendry 88	<u>WOMEN 90-94</u>	46.60 Ben Christoffel 24	54.43 Tim Evans 19
1:08.92 Marie Kelleher 85	• 50 YD FREESTYLE	46.61 Stephen Brauer 23	55.16 Aaron Hawks 24
1:13.97 Julia Dolce 89	49.68 AILEEN SOULE 96	47.40 Edward Goldstein 24	55.16 Scott D Marsic 23
1:18.54 Madeleine Miller 88	1:01.69 Jewel Cooke 90	47.62 Raffi Karapetian 24	55.33 Josh Skube 23
1:19.07 Marion Mueller 87	• 100 YD FREESTYLE	47.81 Osiris Briseno 23	55.58 Kyle L Brooks 23
1:24.24 Hedy Pullman 87	2:12.13 AILEEN SOULE 96	48.37 John D Stamates 21	• 200 YD BACKSTROKE
1:26.00 Susan Hanson 86	NO SWIMMERS	48.38 Nei-Kuan Chia 21	1:50.28 JOHN KEPPELER 92
1:26.82 Hilda Buel 85	• 200 YD FREESTYLE	48.62 Doug Shanks 23	1:54.35 Joe Tristan 23
• 100 YD BACKSTROKE	4:56.80 AILEEN SOULE 96	48.62 Aaron Hawks 24	1:55.37 Osiris Briseno 23
1:55.84 AILEEN SOULE 91	NO SWIMMERS	• 200 YD FREESTYLE	1:58.19 Nei-Kaun Chia 21
2:02.53 Marie Wicklun 85	• 500 YD FREESTYLE	1:41.32 JOE TRISTAN 99	1:59.65 Mark Gole 22
2:14.88 Vivienne Cooke 86	15:48.03 ANNA BAUSCHER 92	1:41.32 Joe P Tristan 23	2:00.25 Tim Evans 19
2:19.49 Eva Muller 86	NO SWIMMERS	1:44.82 Matt Barry 19	2:01.74 Dennis Pette 22
2:41.43 Marie Kelleher 85	• 1000 YD FREESTYLE	1:45.50 Adam Dawkins 23	2:02.87 Adam Dawkins 23
2:41.74 Edith Hendry 87	32:53.76 ANNA BAUSCHER 93	1:45.51 Lee G Wanie 24	2:02.91 Kyle L Brooks 23
2:52.65 Marion Mueller 87	NO SWIMMERS	1:45.62 Edward Goldstein 24	2:05.80 Isaac Farnsworth 23
2:59.34 Hedy Pullman 87	• 50 YD BACKSTROKE	1:47.44 Scott D Marsic 23	2:06.60 Kevin Everiett 24
3:03.91 Madeleine Miller 88			• 50 YD BREASTSTROKE
			26.14 BRUCE CROCK 96

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

27.40 Michael L Garrett 24	55.22 Aaron Hawks 24	4:56.02 Ken Dunlap 27	59.58 Todd A Bricker 25
27.44 Raffi Karapetian 24	55.67 Aaron Mc Cormick 24	• 1000 YD FREESTYLE	59.79 Jonathan Banville 28
27.50 James Collins 24	55.90 Nate Moore 21	9:25.88 ALEX KOSTICH 98	1:00.25 John D Doebbeling 29
27.56 Ben Christoffel 24	55.91 Joaquin Romera 24	10:10.26 Nenad Rodic 28	1:00.27 Darren Gorman 27
27.56 Kevin Raab 20	• 200 YD INDIVIDUAL MEDLEY	10:11.96 Ernie Hoftzyer 29	1:01.06 Todd J Radel 26
27.82 Jens Milobinski 24	1:52.82 SIMON PERCY 94	10:21.24 Jonathan Sakovich 28	1:01.63 Steven Gombai 28
28.12 Harry Ein 20	1:56.26 Tom Williams 24	10:35.32 Stephen Fetyko 25	1:01.70 Craig Crawford 28
28.27 Joaquin Romera 24	1:56.65 Osiris Briseno 23	10:37.49 Andrew Farrell 28	• 200 YD BREASTSTROKE
28.41 Tom Williams 24	1:57.59 Jeff D Maynor 21	10:42.62 Jeff Jotz 29	2:03.69 DOUGLAS SOLTIS 88
28.56 Ealing Jahn 23	1:58.42 Grant Comer 24	10:44.36 Carlton DeVooght 26	2:08.20 Tony Rezek 26
• 100 YD BREASTSTROKE	1:59.57 Aaron Hawks 24	10:45.14 Mark Gwidt 29	2:08.39 Jonathan Banville 28
57.68 TODD RADEL 97	2:00.68 Geoffrey Waller 24	10:52.95 Ed G Owen 27	2:10.08 Gregory S Latta 29
58.82 Michael L Garrett 24	2:00.80 Scott D Marsic 23	10:55.69 Ben Morse 27	2:10.96 John D Doebbeling 29
58.97 Ben Christoffel 24	2:01.70 Nate Moore 21	• 1650 YD FREESTYLE	2:13.54 Steven Gombai 28
59.47 Kevin Raab 20	2:05.91 Kyle L Brooks 23	15:44.70 ALEX KOSTICH 98	2:14.80 Matthew D Monos 29
1:00.16 Jeff D Maynor 21	2:06.02 David W Reid 22	17:06.99 Nenad Rodic 28	2:15.34 Chris M Reddam 26
1:00.35 Stephen Brauer 23	• 400 YD INDIVIDUAL MEDLEY	17:11.40 Andrew Farrell 28	2:16.57 Todd J Radel 26
1:01.18 Harry Ein 20	4:04.34 JOHN KEPPELER 92	17:11.54 Jonathan Sakovich 28	2:19.28 Mark Gwidt 29
1:02.12 Justin Smyers 23	4:12.93 Nate Moore 21	17:15.02 Russell Kominski 25	2:19.99 Steven Lauffer 29
1:02.30 Timothy Wood 24	4:14.83 Grant Comer 24	17:47.21 Jeff Jotz 29	• 50 YD BUTTERFLY
1:02.55 Reid Thorpe 23	4:15.74 Geoffrey Waller 24	17:49.19 David Stutts 26	22.21 BRIAN ALDERMAN 98
1:02.57 Joaquin Romera 24	4:26.19 James Collins 24	18:13.41 Todd W Walsh 29	22.47 Jon Olsen 29
• 200 YD BREASTSTROKE	4:36.94 Shunsuke Okubo 24	18:17.15 Andrew Walberer 27	22.98 Curtis Sawin 27
2:06.35 TODD RADEL 96	4:37.90 Eric Burns 24	18:25.80 Travis Keane 25	23.34 David Lawson 28
2:08.37 Kevin Raab 20	4:43.31 Eric Prokopi 24	18:27.96 Ed G Owen 27	23.40 Jason Hansen 25
2:11.24 Jeff D Maynor 21	4:43.45 Alex Fuller 24	• 50 YD BACKSTROKE	23.47 Derek Robinson 29
2:11.38 Michael L Garrett 24	4:48.76 Stephen So 24	23.12 MICHAEL KANNER 97	23.76 Andrew Bohlman 28
2:13.18 Ben Christoffel 24	4:50.06 Kevin Silverston 24	23.84 Andrew Bohlman 28	23.77 Marcel Rinzier 28
2:14.79 James Collins 24		24.14 Derek Robinson 29	23.79 Eric Cornell 29
2:15.41 Grant Comer 24	MEN 25-29	24.16 Curtis Sawin 27	23.87 Jon Pauole 28
2:15.41 Nate Moore 21		24.17 David Lawson 28	23.91 Jeffrey Roddin 29
2:15.83 Harry Ein 20	• 50 YD FREESTYLE	24.50 Timothy J O'Mara 26	• 100 YD BUTTERFLY
2:16.38 Justin Smyers 23	19.83 ROBERT PEEL 91	24.87 Eduardo Piccinini 26	48.51 BRIAN ALDERMAN 98
2:16.43 Chris Rasmussen 20	20.42 Jon Olsen 29	25.09 Greg Gooch 27	49.42 Jon Olsen 29
• 50 YD BUTTERFLY	21.18 David Lawson 28	25.30 Hank Farris 28	50.89 Curtis Sawin 27
22.47 CHRIS ZOLTAK 98	21.43 Lee G Wanie 25	25.81 Steve Hartsock 25	51.38 Marcel Rinzier 28
23.25 Joe Tristan 23	21.63 Jason Hansen 25	25.85 Eric C Brushaber 27	51.95 Jason Hansen 25
23.45 Bryan Addleman 24	21.78 Curtis Sawin 27	• 100 YD BACKSTROKE	52.02 Derek Robinson 29
23.46 Thomas E Richner 24	21.83 Dan Summerlin 26	49.83 ANDREW GILL 92	52.20 Jeffrey Roddin 29
23.49 David Hughes 24	21.83 Dan Wegner 27	52.13 Curtis Sawin 27	52.21 Bill M Zolna 29
23.57 Nei-Kaun Chia 21	21.85 Bruce N Crock 28	52.32 Derek Robinson 29	52.42 Dan Summerlin 26
23.61 Edward Goldstein 24	21.88 Andrew Bohlman 28	52.83 Lee G Wanie 25	52.45 Lee G Wanie 25
23.72 Tom Williams 24	21.90 Alex Krimm 25	53.58 Jon Olsen 29	52.70 Mark S Goldman 27
23.77 Lee G Wanie 24	• 100 YD FREESTYLE	53.62 David Lawson 28	• 200 YD BUTTERFLY
24.05 Peter Krebbers 21	44.39 ROBERT PEEL 91	53.69 Greg Gooch 27	1:49.21 BOBBY PATTEN 90
24.25 Doug Shanks 23	44.65 Jon Olsen 29	54.10 Scott W Reed 28	1:56.16 Bill M Zolna 29
• 100 YD BUTTERFLY	46.42 David Lawson 28	54.41 Timothy J O'Mara 26	1:57.04 Marcel Rinzier 28
49.91 BRAD BUNDEY 96	46.53 Lee G Wanie 25	54.78 Scott Powell 26	1:57.96 Carlton DeVooght 26
50.79 Nei-Kuan Chia 21	46.56 Jeff Murray 29	54.99 Jeffrey Roddin 29	1:59.23 Eduardo Piccinini 26
51.30 Joe Tristan 23	46.78 Dan Wegner 27	• 200 YD BACKSTROKE	1:59.82 Erik Hanssen 27
51.37 Stephen Brauer 23	46.89 Curtis Sawin 27	1:48.47 JOHN KEPPELER 95	2:00.00 Brad Winsor 27
51.89 Tom Williams 24	47.46 Dan Summerlin 26	1:54.20 Marcel Rinzier 28	2:00.50 Dan Summerlin 26
51.91 Jeff D Maynor 21	47.55 Peter Juiris 25	1:55.47 Nenad Rodic 28	2:01.88 Matthew Walters 28
52.25 Thomas E Richner 24	47.73 Jason Hansen 25	1:55.96 Scott W Reed 28	2:03.65 Mark S Goldman 27
52.28 Osiris Briseno 23	47.80 Ed Wagner 27	1:56.16 Derek Robinson 29	2:04.00 Sextus Tansinsin 26
52.30 Bayani Flores 20	• 200 YD FREESTYLE	1:57.90 Greg Gooch 27	• 100 YD INDIVIDUAL MEDLEY
53.01 Grant Comer 24	1:38.14 JOHN KEPPELER 96	2:01.94 Kurt Sprenger 29	50.47 MOOK RHODENBAUGH 91
53.20 Mark Gole 22	1:39.98 Jon Olsen 29	2:02.85 Jonathan Sakovich 28	53.23 Bruce N Crock 25
• 200 YD BUTTERFLY	1:43.27 Joshua M Woodruff 28	2:02.88 Scott Powell 26	53.49 Lee G Wanie 25
1:51.04 STEVEN REED 93	1:44.96 Derek Robinson 29	2:03.07 Russell Kominski 25	53.50 Greg Larson 29
1:56.66 Grant Comer 24	1:45.37 Brad Winsor 27	2:03.11 Steve Hartsock 25	53.99 Jon Olsen 29
1:58.22 Jeff D Maynor 21	1:45.69 Dan Wegner 26	• 50 YD BREASTSTROKE	54.12 Andrew Bohlman 28
1:59.43 Geoffrey Waller 24	1:45.96 David Stutts 27	25.34 GREG RHODENBAUGH 91	54.39 Gregory S Latta 29
2:01.33 Edward Goldstein 24	1:46.15 Peter Juiris 25	26.00 Bruce N Crock 25	54.53 Jason Hansen 25
2:01.76 Chris Mack 23	1:46.28 Andrew Farrell 28	26.33 Tony Rezek 26	54.80 Marcel Rinzier 27
2:04.02 Aaron Hawks 24	1:46.51 Ernie Hoftzyer 29	27.04 Jonathan Banville 28	55.02 Peter Juiris 25
2:04.45 Aaron K Wong 22	1:47.33 Eric C Brushaber 27	27.34 Jeff Hill 25	55.04 Craig Crawford 28
2:05.27 Jonathn Armstrong 23	• 500 YD FREESTYLE	27.38 Gregory S Latta 29	• 200 YD INDIVIDUAL MEDLEY
2:08.42 Shunsuke Okubo 24	4:30.25 CHIP HOBSON 94	27.39 Craig Balbo 25	1:52.02 JAN BIDRMAN 95
2:09.47 John Fedena 24	4:46.31 Brad Winsor 27	27.42 Todd A Bricker 25	1:55.25 Marcel Rinzier 28
• 100 YD INDIVIDUAL MEDLEY	4:49.05 Joshua M Woodruff 27	27.49 Steven Gombai 28	1:56.29 Gregory S Latta 29
52.01 ADAM WERTH 92	4:52.17 Nenad Rodic 28	27.77 Greg Schaffer 28	1:57.10 Greg Schaffer 28
52.22 Bayani Flores 20	4:52.39 Ernie Hoftzyer 29	27.83 John D Doebbeling 29	1:58.12 John D Doebbeling 29
53.20 Edward Goldstein 24	4:53.39 David Stutts 26	• 100 YD BREASTSTROKE	1:58.16 Abraham Solano 29
53.24 Ben Christoffel 24	4:53.71 Matt Keller 29	56.21 DAVID LUNDBERG 90	1:58.41 Lee G Wanie 25
53.91 Raffi Karapetian 24	4:54.29 Lee G Wanie 25	57.49 Tony Rezek 26	1:59.95 Dan Wegner 27
54.88 Mark Gole 22	4:54.38 Andrew Farrell 28	59.07 Craig Balbo 25	2:00.12 Bill M Zolna 29
55.14 Grant Comer 24	4:54.74 Bill M Zolna 29	59.46 Gregory S Latta 29	2:00.20 Eric C Brushaber 27

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2:01.21 James Ralph 26	15:51.57 JEFF ERWIN 96	2:14.50 J Frentsos 33	MEN 35-39
• 400 YD INDIVIDUAL MEDLEY	16:24.54 Mike Shaffer 33	2:15.41 Mark D Stori 33	• 50 YD FREESTYLE
3:59.73 CAMERON REID 88	16:47.20 Sean J Killion 31	2:16.70 Jason Timmons 31	20.73 KEVIN DEFORREST 94
4:08.15 Marcel Rinzler 28	17:08.93 Doug D Stewart 34	2:17.84 Niel Fischer 34	21.51 Mark Noetzel 36
4:13.86 Bill M Zolna 29	17:11.27 Andrew L Kelsey 31	2:19.69 Phillip J King 32	21.57 William C Barr 35
4:16.09 David Stuttz 26	17:30.49 Stephen Bauman 34	• 50 YD BUTTERFLY	21.72 Joe Reinhardt 37
4:22.19 Derek Weatherford 27	17:32.54 Stephen A Stahl 34	22.22 BRIAN ALDERMAN 99	21.83 Franz Mortensen 35
4:22.22 Eric C Brushaber 27	17:38.27 Chris McGiffen 33	22.22 Brian Alderman 30	21.86 Thomas Redig 37
4:22.38 Carlton DeVoght 26	17:38.30 Eric Block 33	22.27 Jon C Olsen 30	21.87 Matt Wood 37
4:22.69 Russell Kominski 25	17:43.24 Mike Bandow 30	23.21 Anthony Mosse 34	21.88 John Smith 37
4:23.53 M Kinney 29	17:43.43 Michael D Collins 33	23.29 Neill Williams 31	21.88 Michael Fell 37
4:23.78 Scott W Reed 28	• 50 YD BACKSTROKE	23.30 Michael Sorensen 31	22.05 Steve A George 39
4:24.53 A Nusshamer 28	23.39 CLAY BRITT 92	23.51 Jarret Winter 30	22.08 Wally Dicks 36
	23.74 John H Keppeler 32	23.67 Jeffrey Roddin 30	• 100 YD FREESTYLE
MEN 30-34	24.49 Michael B Kanner 30	23.71 Robert Smit 30	46.14 DAVID BOATWRIGHT 97
• 50 YD FREESTYLE	24.71 Chris L Stevenson 34	23.79 Antonio Portela 33	46.89 Mark Noetzel 36
20.15 ADAM SCHMITT 97	25.16 Tom Northcutt 33	23.84 Tyler Jourdonnais 33	46.92 Franz Mortensen 35
21.07 Erik Osborn 30	25.29 Mike Gonzales 32	• 100 YD BUTTERFLY	47.37 Billy Barr 35
21.48 Brian Alderman 30	25.84 Christophe A Wood 31	48.64 JON OLSEN 99	47.44 Thomas Redig 37
21.51 Jarret Winter 30	25.92 Robert Kabacy 30	48.64 Jon C Olsen 30	47.86 Paul L Smith 39
21.68 C Michael Halfast 33	26.02 Carr Phillips 33	48.74 Brian Alderman 30	47.93 Michael Fell 37
21.85 Robert Kabacy 30	26.15 Rob Berry 31	50.46 Michael Sorensen 31	48.00 Will Douglass 39
21.87 Neill Williams 31	26.30 Kirk Clear 31	50.97 Anthony Mosse 34	48.19 Michael Green 35
21.87 Rob K Laurie 32	• 100 YD BACKSTROKE	51.71 Jeffrey Roddin 30	48.30 Stuart Cromarty 35
21.89 Kirk F Everist 32	50.21 CLAY BRITT 92	51.72 Alec J Campbell 33	48.43 James E Lilley 39
21.89 Carr Phillips 33	50.74 John H Keppeler 32	51.88 Mike Shaffer 33	• 200 YD FREESTYLE
21.90 Chip L Hobson 31	53.47 Chris L Stevenson 34	52.16 Tyler Jourdonnais 33	1:41.20 FRANZ MORTENSEN 99
• 100 YD FREESTYLE	53.86 Tom Northcutt 33	52.79 Joseph T Bubel 31	1:41.20 Franz Mortensen 35
44.72 JON OLSEN 99	54.07 Mike Gonzales 32	52.81 Chris Stevenson 33	1:43.32 Stuart Cromarty 35
44.72 Jon C Olsen 30	55.21 Rob Berry 30	• 200 YD BUTTERFLY	1:44.69 Bobby Patten 36
46.73 John H Keppeler 31	55.31 Christophe A Wood 31	1:49.52 PETER EGAN 94	1:45.31 Will Douglass 39
46.82 Brian Alderman 30	55.32 Carr Phillips 33	1:52.03 Brian Alderman 30	1:46.27 Dale McElhattan 37
47.57 Kirk F Everist 32	55.42 Michael B Kanner 30	1:54.99 Mike Shaffer 33	1:46.50 Paul L Smith 39
47.67 Carr Phillips 33	55.70 Bert Bergen 32	1:55.88 Michael Sorensen 31	1:46.99 Kevin Hook 37
48.01 Jarret Winter 30	55.80 Stephen M Smith 32	1:56.14 Alec J Campbell 33	1:47.70 James E Lilley 39
48.02 Chip L Hobson 31	• 200 YD BACKSTROKE	1:57.80 John H Keppeler 31	1:47.89 Joseph Lileikis 36
48.05 Bartt M Frey 33	1:48.66 RONALD KARNAUGH 97	1:57.99 John Harlow 30	1:48.12 Kurt Wienants 36
48.28 Andy Edmondson 31	1:50.77 John H Keppeler 32	1:59.15 Roque Santos 31	• 500 YD FREESTYLE
48.32 Stephen Stahl 34	1:56.33 J Frentsos 33	1:59.59 Jerry Frentsos 33	4:36.80 FRANZ MORTENSEN 99
48.32 Russell Kneipp 30	1:57.14 Chris L Stevenson 34	1:59.94 Lorenzi Benucci 31	4:36.80 Franz Mortensen 35
• 200 YD FREESTYLE	1:58.46 Mike Gonzales 32	2:00.69 Stephen Stahl 34	4:38.89 Bobby Patten 36
1:38.03 JON OLSEN 99	1:58.87 Roque Santos 31	• 100 YD INDIVIDUAL MEDLEY	4:51.97 Stuart Cromarty 35
1:38.03 Jon C Olsen 30	2:00.66 Kurt Dickson 31	50.98 DAVID LUNDBERG 91	4:54.91 Chris Waters 36
1:40.54 John H Keppeler 32	2:00.87 John Harlow 30	53.08 Roque Santos 31	4:56.76 Michael Moore 35
1:44.92 Alec J Campbell 33	2:01.02 Jeffrey Rodgers 32	54.00 Neill Williams 31	4:57.77 Joseph Lileikis 36
1:45.35 Mike Shaffer 33	2:01.38 Stephen M Smith 32	54.38 Mark D Stori 33	4:58.59 Allan Jaegers 36
1:45.59 Stephen Stahl 34	2:01.41 Doug Chestnut 34	54.45 Alec J Campbell 33	4:59.39 David Williams 38
1:45.70 Brian Judd 31	• 50 YD BREASTSTROKE	54.46 Derron Fredrick 31	4:59.46 Mike Keck 39
1:46.33 Bert Bergen 32	25.88 DAVID LUNDBERG 91	54.65 Jeffrey Roddin 30	5:02.28 Steven Fisher 36
1:46.72 Carr Phillips 33	26.87 Roque Santos 31	54.74 Jerry Frentsos 33	• 1000 YD FREESTYLE
1:47.03 Chris Hall 31	27.36 Brian Scottoline 34	54.79 John Harlow 30	9:41.12 FRANZ MORTENSEN 99
1:47.29 Chris L Stevenson 34	27.53 N Williams 31	54.95 Tom Northcutt 33	9:41.12 Franz Mortensen 35
• 500 YD FREESTYLE	27.58 Joe Bubel 31	54.95 Bert Bergen 32	10:20.75 Mike Keck 39
4:29.49 MATTHEW CETLINSKI 96	27.60 Robert K Leyshon 30	• 200 YD INDIVIDUAL MEDLEY	10:26.53 Allan Jaegers 36
4:37.25 Chip L Hobson 31	27.81 Bob Jennings 33	1:47.62 RONALD KARNAUGH 97	10:27.35 Steven Fisher 36
4:44.06 Mike Shaffer 33	28.15 Tom Northcutt 33	1:53.37 Roque Santos 31	10:30.79 Gerry A Rodrigues 36
4:47.03 Brian Judd 31	28.24 John Hallman 34	1:58.66 Alec J Campbell 33	10:36.56 Geoff Cleveland 38
4:47.82 Sean J Killion 31	28.30 Boris Talan 33	1:58.77 Jeffrey Roddin 30	10:38.47 Mike Reid 38
4:50.06 Jay Benner 34	28.46 James Bergen 31	1:59.17 Chip L Hobson 31	10:43.69 Paul M Kryska 35
4:50.28 Stephen Stahl 34	• 100 YD BREASTSTROKE	1:59.64 Jerry Frentsos 33	10:47.03 Jeffrey Crosson 37
4:50.46 Chris Hall 31	56.58 DAVID LUNDBERG 91	1:59.89 Mark D Stori 33	10:51.77 Steven L Atkins 36
4:50.50 Chris L Stevenson 34	57.47 Roque Santos 31	1:59.93 Tom Northcutt 33	• 1650 YD FREESTYLE
4:50.86 Doug D Stewart 34	59.14 Joe Bubel 31	1:59.99 Stephen M Smith 32	16:02.13 BOBBY PATTEN 99
4:59.37 Doug Chestnut 34	59.62 Neill Williams 31	2:00.38 Bert Bergen 32	16:02.13 Bobby Patten 36
• 1000 YD FREESTYLE	59.95 Robert K Leyshon 30	2:00.72 Bob Jennings 33	16:49.13 Michael Moore 35
9:34.15 JEFF ERWIN 95	1:00.85 Bob Jennings 33	• 400 YD INDIVIDUAL MEDLEY	17:07.56 Robert C Placak 39
9:59.16 Stephen Stahl 34	1:01.05 Derron Fredrick 31	3:53.81 RONALD KARNAUGH 97	17:30.53 Mike Keck 39
10:15.38 Doug Chestnut 34	1:01.06 Tom Northcutt 33	4:01.40 Roque Santos 31	17:42.48 Brad Gotthberg 37
10:20.75 Doug Stewart 34	1:01.43 Lorenzi Benucci 31	4:13.90 John Harlow 30	17:52.56 Avery Kintner 37
10:25.14 Ricardo Valdivia 34	1:01.53 James Bergen 31	4:14.81 Lorenzi Benucci 31	17:55.56 Ed Melanson 36
10:30.80 Gregg Werlinich 34	1:01.66 Jeffrey Roddin 30	4:16.10 Jerome Frentsos 33	18:08.22 Peter Frank 37
10:40.61 William Riddell 30	• 200 YD BREASTSTROKE	4:16.42 Stephen M Smith 32	18:10.92 Doug Asbury 39
10:53.49 Dale Mercker 32	2:01.01 RONALD KARNAUGH 97	4:20.17 Mark D Stori 33	• 50 YD BACKSTROKE
10:54.03 Jaco Kruger 34	2:03.89 Roque Santos 31	4:24.53 Doug D Stewart 34	23.75 CLAY BRITT 96
10:54.91 Dan Perry 30	2:11.35 Robert K Leyshon 30	4:25.37 Phillip J King 32	24.21 Eric Ericson 36
10:59.21 Scott Johnson 34	2:11.55 Bob Jennings 33	4:25.43 Niel Fischer 34	24.47 Clay Britt 38
• 1650 YD FREESTYLE	2:13.45 Tom Northcutt 33	4:27.76 Doug Chestnut 34	
	2:13.77 Joseph T Bubel 31		

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24.81 Sean Murphy 35	24.16 Eric Ericson 36	47.23 STU MARVIN 97	56.71 Thomas Davis 41
25.00 Jay Yarid 36	24.37 Clay Britt 38	47.29 Jack Groselle 44	56.84 Andreas Seibt 40
25.02 Razvan Teodorescu 35	• 100 YD BUTTERFLY	48.11 James Sorensen 40	57.28 Malcolm Cooper 42
25.14 Steve A George 39	49.54 PETER EGAN 99	48.20 Peter Nunan 41	57.32 Jonathan E Klein 41
25.36 Joe Reinhardt 37	49.54 Peter Egan 35	48.54 Rick E Abbott 44	57.52 Jim Bendtsen 44
25.52 James E Lilley 39	50.35 Bobby Patten 36	48.78 Thomas J McCabe 41	• 200 YD BACKSTROKE
25.56 Michael A Fell 36	53.09 Edmund Gendreau 37	49.12 Richard Hess 44	1:54.01 WILLIAM SPECHT 98
25.73 David Gibson 38	53.15 John Pratt 36	49.58 Kirk E Kozlowski 40	1:56.82 William L Specht 41
• 100 YD BACKSTROKE	53.28 C Johnson 36	50.00 Jefferson Spencer 40	1:58.74 Joseph Rhyne 40
51.03 CLAY BRITT 96	53.33 Gary Antonick 36	50.05 Gregory Oxley 40	1:59.59 Scott Shake 41
51.47 Sean Murphy 35	53.40 Stuart Cromarty 35	50.06 Robert Crowder 43	2:03.21 Dan Willoughby 40
52.06 Clay Britt 38	53.49 Dirk Marshall 36	• 200 YD FREESTYLE	2:03.48 Thomas Davis 41
52.30 Eric Ericson 36	53.57 Norman Schippert 35	1:44.48 STU MARVIN 97	2:03.57 Andreas Seibt 41
53.30 Jay Yarid 36	53.58 David Gibson 38	1:45.20 James Sorensen 40	2:04.45 David Burleson 41
53.40 Steve A George 39	• 200 YD BUTTERFLY	1:46.30 Joseph Rhyne 40	2:04.63 Jonathan E Klein 41
54.74 Michael Fell 37	1:50.74 BOBBY PATTEN 99	1:46.80 Jack Groselle 44	2:04.97 D Portelance 40
55.54 Gary Antonick 36	1:50.74 Bobby Patten 36	1:48.14 Rick E Abbott 44	2:05.07 Bob Buresh 40
56.14 Will Douglass 39	1:51.41 Peter Egan 35	1:49.17 Thomas J McCabe 41	• 50 YD BREASTSTROKE
56.25 Mike J Brown 35	1:58.82 Chris Waters 36	1:49.80 Kirk E Kozlowski 41	26.75 RICK HOFSTETTER 97
56.68 Mike Frazier 38	1:59.56 John Pratt 36	1:49.87 Andreas Seibt 41	27.26 David S Gray 40
• 200 YD BACKSTROKE	2:00.07 Gary M Antonick 36	1:50.64 Steve A Sussex 43	27.38 Benn Doyle 40
1:50.83 SEAN MURPHY 99	2:01.22 Daniel J Sullivan 38	1:51.67 Thomas Emison 40	27.51 Stephen Rode 41
1:50.83 Sean Murphy 35	2:01.75 Edmund Gendreau 37	1:51.72 Pat Allender 40	27.82 Ron Schafer 41
1:55.83 Steve A George 39	2:01.98 Stephen Segreto 35	• 500 YD FREESTYLE	27.96 Kent Rafferty 41
1:57.51 Eric Ericson 36	2:02.94 Stuart Cromarty 35	4:41.83 JOSEPH RHYNE 99	28.39 Jack Groselle 44
1:57.57 Jay Yarid 36	2:03.62 Barry Dittus 38	4:41.83 Joseph Rhyne 40	28.51 Spencer C Eldred 42
2:00.51 Patrick Duggan 35	• 100 YD INDIVIDUAL MEDLEY	4:51.43 William Specht 40	28.61 Stuart Corliss 43
2:03.14 Gregory L Pfeifer 38	52.79 ROBERT PLACAK 94	4:53.55 Tim Harvey 44	28.83 J Cunningham 42
2:03.40 Michael Fell 36	54.10 Clay Britt 38	4:55.16 Robert C Placak 40	28.85 Pat Allender 40
2:03.68 Glenn Battle 37	54.14 John Smith 37	4:58.06 John Havlik 40	• 100 YD BREASTSTROKE
2:04.47 Jeff Siggins 36	54.35 Cameron D Reid 38	4:58.65 Scott Shake 41	59.40 C MILTENBERGER 93
2:05.46 Danilo Vicioso 35	54.62 Steve A George 39	4:59.57 Andreas Seibt 41	1:00.33 Stephen Rode 41
• 50 YD BREASTSTROKE	54.70 James E Lilley 39	5:01.98 Jerry Demuro 43	1:00.43 David S Gray 40
25.97 WALLY DICKS 98	54.74 Patrick Duggan 35	5:02.45 Steve A Sussex 43	1:00.82 Ron Schafer 41
26.35 Wally Dicks 36	55.02 Thomas Redig 37	5:04.66 Rick E Abbott 44	1:01.14 Benn Doyle 40
26.91 David Guthrie 38	55.64 Paul L Smith 39	• 1000 YD FREESTYLE	1:01.49 Jack Groselle 44
26.98 Plamen Alexandrov 38	55.69 Michael A Fell 37	9:47.73 HESS YNTEMA 94	1:02.44 Pat Allender 40
27.19 Robert L Jackson 39	55.86 Don L Reyburn 36	9:56.27 Joseph Rhyne 40	1:02.72 Michael Hamm 41
27.44 Gary L Patterson 39	• 200 YD INDIVIDUAL MEDLEY	10:06.80 Tim Harvey 44	1:02.77 Spencer C Eldred 42
27.50 Mack A Metz 35	1:56.47 CAMERON REID 99	10:13.87 Robert C Placak 40	1:02.98 Kent Rafferty 41
28.23 Randy R Cox 36	1:56.47 Cameron D Reid 38	10:25.66 John Havlik 40	1:03.61 Mori Paulsen 41
28.55 Jose Landrua 39	1:57.86 Patrick Duggan 35	10:27.44 Scott Shake 40	• 200 YD BREASTSTROKE
28.90 Anthony Thompson 35	2:00.40 Thomas Redig 37	10:29.28 Jerry Demuro 43	2:09.95 RON SCHAFER 99
28.98 Mark Pohlkamp 35	2:00.82 Steve A George 39	10:36.88 Jim Stites 41	2:09.95 Ron Schafer 41
• 100 YD BREASTSTROKE	2:00.88 Gary Antonick 36	10:37.72 Thomas Mack 40	2:11.60 David S Gray 40
56.71 WALLY DICKS 98	2:01.68 Lincoln Djang 39	10:43.98 David Burleson 41	2:13.29 Stephen Rode 41
56.71 Wally Dicks 36	2:01.99 Michael Green 35	10:47.45 Jim Callahan 41	2:14.28 Benn Doyle 40
58.36 Plamen Alexandrov 38	2:02.48 David Guthrie 38	• 1650 YD FREESTYLE	2:15.31 Pat Allender 40
58.87 David Guthrie 38	2:02.57 Stuart Cromarty 35	16:18.14 HESS YNTEMA 94	2:15.95 Spencer C Eldred 42
1:00.72 Randy R Cox 36	2:03.50 Jay Yarid 36	16:46.01 Tim Harvey 44	2:18.99 Michael Hamm 41
1:00.77 Gary L Patterson 39	• 400 YD INDIVIDUAL MEDLEY	17:08.29 Scott Shake 41	2:19.88 Tom Reudy 44
1:01.39 Patrick Duggan 35	4:09.15 CAMERON REID 99	17:34.07 David Krueger 40	2:22.12 C Kennedy 42
1:02.73 Mark Pohlkamp 35	4:09.15 Cameron D Reid 38	17:41.55 Thomas Mack 40	2:22.61 Kent Rafferty 41
1:03.11 Bob McAdam 36	4:10.73 Sean Murphy 35	17:56.16 Rob Copeland 42	• 50 YD BUTTERFLY
1:03.48 Edmund Gendreau 37	4:13.26 Patrick Duggan 35	18:00.53 Jerry De Muro 43	23.28 WILLIAM SPECHT 98
1:03.87 Jose Landrua 39	4:25.92 Mike Keck 39	18:13.92 Scott Rabalais 40	23.45 William L Specht 41
• 200 YD BREASTSTROKE	4:26.25 Allan Jaegers 36	18:17.43 Tom Emison 40	24.01 Richard Hess 44
2:05.81 WALLY DICKS 99	4:26.69 Jay Yarid 36	18:34.56 Mark Gowler 42	24.26 James Sorensen 40
2:05.81 Wally Dicks 36	4:30.24 Mike J Brown 35	18:38.57 Tom J Monica 41	24.38 Rick E Abbott 44
2:07.10 David Guthrie 38	4:30.65 Edmund Gendreau 36	• 50 YD BACKSTROKE	24.66 Thomas J McCabe 41
2:12.53 Plamen Alexandrov 38	4:30.86 Michael Dempsey 35	24.57 WILLIAM SPECHT 98	24.76 Bob Buresh 40
2:13.39 Patrick Duggan 35	4:32.97 Steven L Atkins 36	25.12 William L Specht 41	24.79 Jerry Spencer 40
2:13.62 Gary L Patterson 39		25.53 Fritz Lehman 40	24.85 Jack Groselle 44
2:17.01 Randy R Cox 36	MEN 40-44	25.94 Carlos Berrocal 41	25.01 Chris Dixon 41
2:18.60 Edmund Gendreau 37	• 50 YD FREESTYLE	25.95 Bob Buresh 40	25.05 Peter Nunan 41
2:19.92 Andrew D Brenan 38	21.55 STU MARVIN 97	25.97 Bob Jackson 42	• 100 YD BUTTERFLY
2:20.19 Anthony Thompson 35	22.05 Jerry Spencer 40	26.44 Malcolm Cooper 42	50.98 WILLIAM SPECHT 99
2:21.08 Matt Connery 35	22.16 Rick Abbott 44	26.46 Scott Shake 41	50.98 William L Specht 41
• 50 YD BUTTERFLY	22.25 Peter Nunan 41	26.52 Jonathan E Klein 41	53.23 Joseph Rhyne 40
22.93 SPECHT/DEFORREST 94	22.33 Jack Groselle 44	26.68 Peter Metzger 43	53.26 Richard Hess 44
23.05 Peter Egan 35	22.33 Malcolm Cooper 42	26.73 Jack Altdoerffer 44	53.73 Rick E Abbott 44
23.34 Bobby Patten 36	22.38 Richard Hess 44	• 100 YD BACKSTROKE	54.16 Thomas J McCabe 41
23.36 Thomas Redig 37	22.51 Kirk E Kozlowski 41	52.58 CRAIG SCHWARTZ 96	54.68 Jack Groselle 44
23.51 Mark Noetzel 36	22.58 Mike Schmitz 40	53.48 William L Specht 41	55.04 Robert C Placak 40
23.64 Paul L Smith 39	22.60 Robert Crowder 43	55.04 Fritz Lehman 40	55.21 Kerry L O'Brien 42
23.97 David Gibson 38	22.62 Gregory Oxley 40	56.28 Bob Buresh 40	55.35 Jim Bendtsen 44
24.05 John Pratt 36	• 100 YD FREESTYLE	56.55 David Burleson 41	55.44 Chris M Roth 40
24.15 Dirk Marshall 36		56.60 Scott Shake 41	• 200 YD BUTTERFLY

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

1:51.98 WILLIAM SPECHT 99	1:52.39 Mike Sherrill 49	2:09.72 Todd A Bryan 48	58.89 Mark Rubke 46
1:51.98 William L Specht 41	1:52.78 Dean Fochios 45	2:12.21 Kurt Moehlmann 47	59.01 Bruce Mallette 46
1:56.99 Joseph Rhyne 40	1:53.07 Peter O'Keefe 48	50 YD BREASTSTROKE	59.02 Robert Puels 47
2:01.67 Chris M Roth 40	1:53.37 Leonard Brockhahn 48	28.12 PAUL HENNE 94	59.62 Gary Matyko 46
2:01.88 Kerry L O'Brien 41	1:54.13 Donald Gilchrist 45	28.82 Richard Bohan 48	59.62 Steven Haufler 46
2:05.87 Matthew Kanzler 42	1:54.59 Richard S Garrett 45	28.84 Douglas L Ryerson 45	59.73 John D Meade 47
2:06.36 John Craig 44	1:54.90 Steve Heck 49	29.59 Robert Puels 47	59.85 Steve Heck 49
2:08.35 Calyton Bogusky 40	1:55.08 Charles Lemaistre 45	29.61 Robert Whitley 49	59.90 Ric Cooley 49
2:08.60 David Natali 44	500 YD FREESTYLE	29.63 John Templin 45	200 YD INDIVIDUAL MEDLEY
2:08.72 Jim Stites 41	4:51.73 JIM MCCONICA 99	30.12 Donald Gilchrist 45	2:03.53 BRUCE MALLETT 98
2:10.40 Jeff Bergman 41	4:51.73 Jim Mc Conica 48	30.47 Ralph Bovard 46	2:04.07 Clay Evans 45
100 YD INDIVIDUAL MEDLEY	5:01.74 John Hughes 45	30.48 James Goodman 46	2:06.63 Donald Gilchrist 45
54.40 JAMES SORENSEN 99	5:03.01 Mike Sherrill 49	30.63 Bruce Mallette 46	2:08.63 Bruce Mallette 46
54.40 James Sorensen 40	5:05.37 Todd A Bryan 48	30.82 C Miltenberger 47	2:08.89 Richard S Garrett 45
55.70 Richard Hess 44	5:09.43 Hess Yntema 45	100 YD BREASTSTROKE	2:09.43 Rick Colella 47
56.31 Jack Groselle 44	5:11.46 Leonard Brockhahn 48	1:01.92 ROBERT STRAND 95	2:09.78 Scott McMillen 45
56.85 Rick E Abbott 44	5:13.57 Jeff Strnad 46	1:02.48 C Miltenberger 47	2:10.06 Peter O'Keefe 48
57.01 Robert C Placak 40	5:15.08 Paul Windrath 45	1:03.77 Richard Bohan 48	2:10.48 Gary Matyko 46
57.16 Stuart Corliss 43	5:15.15 Rick Walker 48	1:04.19 Robert Whitley 49	2:11.69 Steven Haufler 46
57.70 Benn Doyle 40	5:16.16 John C Needham 45	1:04.52 Rick Colella 47	2:11.72 Richard Bohan 48
57.82 Stephen Rode 41	1000 YD FREESTYLE	1:04.90 Douglas L Ryerson 45	400 YD INDIVIDUAL MEDLEY
57.92 Steve A Sussex 43	10:15.57 JIM MCCONICA 99	1:05.94 John Templin 45	4:26.93 RICK COLELLA 97
57.95 C Kennedy 42	10:15.57 Jim Mc Conica 48	1:05.97 Richard S Garrett 45	4:30.50 Clay Evans 45
200 YD INDIVIDUAL MEDLEY	10:27.92 Mike Sherrill 49	1:06.45 Gary Matyko 46	4:32.98 Donald Gilchrist 45
1:58.07 JAMES SORENSEN 99	10:53.41 John C Needham 45	1:06.89 Bruce Mallette 46	4:37.98 Paul Feters 45
1:58.07 James Sorensen 40	10:53.82 Scott J Harris 45	1:06.99 Tom Riley 47	4:39.00 John Hughes 45
2:02.90 Spencer C Eldred 42	11:06.61 Fred Ferroggiaro 45	200 YD BREASTSTROKE	4:40.39 Paul Windrath 45
2:03.44 Pat Allender 40	11:09.87 Jeff Strnad 46	2:15.89 ROBERT STRAND 94	4:41.28 Scott McMillen 45
2:04.18 Tom Reudy 44	11:15.61 Kevin Mc Cormack 46	2:21.01 Rick Colella 47	4:41.38 Gary Matyko 46
2:04.47 Gregory Dozer 41	11:16.74 David Tanner 49	2:22.98 Robert Whitley 49	4:45.32 Steven Haufler 46
2:05.77 Richard Hess 44	11:17.54 Rick Walker 48	2:23.05 Dale Korner 46	4:46.15 Steve H Mundschau 45
2:06.11 Steve A Sussex 43	11:24.91 Robert Strauss 46	2:23.52 Richard Bohan 48	4:47.66 Clifford Johnson 47
2:06.17 Scott Shake 40	1650 YD FREESTYLE	2:23.71 Donald Gilchrist 45	
2:06.39 Stephen Rode 41	17:12.43 JIM MCCONICA 96	2:25.11 John Templin 45	MEN 50-54
2:06.48 Andreas Seibt 41	18:04.05 Fred Ferroggiaro 45	2:25.76 Bruce Mallette 46	50 YD FREESTYLE
400 YD INDIVIDUAL MEDLEY	18:09.92 Rick Walker 48	2:26.00 Gregory Harrison 47	21.73 RICHARD ABRAHAMS 98
4:18.74 JAMES SORENSEN 99	18:15.68 Paul Windrath 45	2:27.08 Steven Haufler 46	22.64 Rich Abrahams 54
4:18.74 James Sorensen 40	18:22.44 Scott J Harris 45	2:27.27 Douglas L Ryerson 45	23.12 Andrew Mc Pherson 52
4:22.15 Pat Allender 40	18:37.52 Paul Feters 45	50 YD BUTTERFLY	23.43 Steve Borowski 51
4:29.60 David Burleson 41	18:39.35 Jeff Strnad 46	23.84 TRIP HEDRICK 99	23.55 Bill Barthold 50
4:29.73 Andreas Seibt 41	18:48.51 Dick Stone 47	23.84 Trip Hedrick 45	23.65 Boo Graner-Gallas 51
4:30.44 Steve A Sussex 43	18:52.48 John Hughes 45	24.91 Tom Perrin 48	23.66 Randy Simons 50
4:30.74 Tom Reudy 44	18:54.48 Dean Harper 46	25.08 Jim O'Connor 45	23.85 Robert Strand 53
4:31.95 Matthew Kanzler 42	19:12.90 Phil Dodson 46	25.17 Kevin McCormack 46	23.89 John Enterline 52
4:32.08 Chris M Roth 40	50 YD BACKSTROKE	25.25 Mark Rubke 46	23.95 Daniel Rogacki 51
4:38.48 Jerry Demuro 43	25.65 ROBERT SMITH 88	25.56 Brad Pence 47	24.02 John Osterloh 50
4:38.66 Dan Willoughby 40	25.85 Clay Evans 45	25.68 Steve Heck 48	
	26.50 Peter O'Keefe 48	25.70 Mark Pugliese 46	100 YD FREESTYLE
MEN 45-49	26.86 Mark Rubke 46	25.73 John D Meade 47	48.80 RICHARD ABRAHAMS 98
50 YD FREESTYLE	26.97 Paul Windrath 45	26.13 Donald R Bacci 46	50.77 Rich Abrahams 54
21.87 RICHARD ABRAHAMS 90	27.43 Gene Hart 46	100 YD BUTTERFLY	50.95 Andrew Mc Pherson 52
22.13 Trip Hedrick 45	27.59 Scott McMillen 45	53.28 TRIP HEDRICK 99	51.38 Boo Graner-Gallas 51
22.90 Dean Fochios 45	27.61 Dean Fochios 45	53.28 Trip Hedrick 45	52.24 Dick Thomas 51
22.97 Kenneth Knox 46	27.88 Mark Pugliese 46	55.08 Jim O'Connor 45	52.38 Bill Barthold 50
23.13 Mark Rubke 46	27.93 Fred Ferroggiaro 45	55.51 Tom Perrin 48	52.69 Daniel Rogacki 51
23.18 Robert Puels 47	28.14 Jack Courtney 45	55.70 Brad Pence 47	52.76 John Osterloh 50
23.18 Charles Lemaistre 45	100 YD BACKSTROKE	56.08 Kevin McCormack 46	52.88 Paul Mc Cormick 52
23.21 Lawrence Shulman 49	56.14 ROBERT SMITH 88	56.57 John Craig 45	52.89 Michael Ahern 54
23.25 C Miltenberger 47	56.57 Clay Evans 45	57.36 Bruce Mallette 46	52.92 Robert Strand 53
23.26 Richard S Garrett 45	57.31 Peter O'Keefe 48	57.48 Steven Haufler 46	200 YD FREESTYLE
23.39 Robert Whitley 49	58.67 Chuck Wolff 47	57.82 Don Gilchrist 45	1:48.57 FRED SCHLICHER 99
100 YD FREESTYLE	58.68 Mark Rubke 46	57.92 Paul Windrath 45	1:48.53 Fred Schlicher 50NV
48.13 ANDREW MCPHERSON 92	58.92 Fred Ferroggiaro 45	200 YD BUTTERFLY	1:52.21 Tod Spieker 50
48.94 Trip Hedrick 45	59.65 Jack Courtney 45	2:02.53 FRED SCHLICHER 97	1:52.66 Tim Birnie 53
49.80 Kenneth Knox 46	59.76 Paul Windrath 45	2:02.96 Jim O'Connor 45	1:56.06 Paul Mc Cormick 52
50.36 Dean Fochios 45	59.76 John Hughes 45	2:05.53 Hess Yntema 45	1:56.57 Andrew Mc Pherson 51
50.42 Mark Rubke 46	59.96 Bruce Mallette 46	2:07.04 Rick Colella 47	1:58.13 John Osterloh 50
50.44 Peter O'Keefe 48	1:00.10 Scott McMillen 45	2:07.80 John Craig 45	1:58.21 J Nathan Leech 50
50.50 Richard S Garrett 45	200 YD BACKSTROKE	2:09.77 Donald Gilchrist 45	1:58.35 Richard Kittel 51
51.68 Robert Whitley 49	2:02.18 PETER O'KEEFE 96	2:10.46 David Tanner 49	2:00.07 Joel R Wilson 50
51.99 Don Gilchrist 45	2:03.09 Clay Evans 45	2:11.71 Steve H Mundschau 45	2:00.16 Hugh Wilder 51
51.99 Leonard Brockhahn 48	2:05.24 Peter O'Keefe 48	2:14.92 Brad Pence 47	500 YD FREESTYLE
52.04 Robert Puels 47	2:05.76 Fred Ferroggiaro 45	2:17.53 David C Fryefield 45	5:03.39 TOD SPIEKER 99
200 YD FREESTYLE	2:06.85 Paul Feters 45	2:17.59 Scott McMillen 45	5:03.39 Tod Spieker 50
1:47.93 TIM BRODERICK 96	2:06.93 Paul Windrath 45	100 YD INDIVIDUAL MEDLEY	5:11.05 Tim Birnie 53
1:51.58 Jim Mc Conica 48	2:07.32 John Hughes 45	56.23 ROBERT SMITH 88	5:14.51 Paul Mc Cormick 52
1:51.58 John Hughes 45	2:09.51 Kent Ford 45	56.32 Clay Evans 45	5:20.56 Keith F Bell 50
	2:09.55 Scott McMillen 45	58.61 Richard S Garrett 45	5:22.66 Joel R Wilson 50

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

5:26.56 Bob Momsen	52	1:01.02 DON MCKENZIE	98	2:14.40 J Nathan Leech	50	12:52.76 Tom Tulenko	56		
5:27.08 John Osterloh	50	1:02.01 Don W McKenzie	52	2:15.86 Mal Jester	50	12:57.67 Joseph R Walker	57		
5:27.29 Gaard Arneson	51	1:02.86 Robert Strand	53	2:16.25 R Tod Spieker	50	* 1650 YD FREESTYLE			
5:28.73 Bill Darby	51	1:06.80 Mal Jester	50	2:16.44 Hugh Wilder	51	19:01.09 SANDY GALLETTY	99		
5:32.38 Hugh Wilder	51	1:07.24 John Derr	50	2:17.21 Fred Schlicher	50	19:01.09 Sandy Galletty	56		
* 1000 YD FREESTYLE		1:07.59 Daniel Rogacki	51	* 400 YD INDIVIDUAL MEDLEY		19:46.21 Edward G Cazalet	56		
10:30.05 TOD SPIEKER	99	1:07.72 Mabry Tyson	50	4:34.62 FRED SCHLICHER	99	19:47.01 Tom Landis	57		
10:30.05 Tod Spieker	50	1:07.76 Nathan Leech	50	4:34.62 Fred Schlicher	50	19:48.62 Tim Griffin	55		
10:52.65 Paul Mc Cormick	52	1:08.05 Allen Stark	50	4:39.88 Tod Spieker	50	20:43.11 Bill Conroy	55		
10:59.96 Keith Bell	50	1:08.17 Michael Merrell	51	4:43.35 Joel A Wilson	50	20:50.43 Joseph R Walker	57		
11:07.15 Mal Jester	50	1:08.21 Bill Griffith	52	4:49.89 Mal Jester	50	20:50.76 Robert R Williams	56		
11:13.87 Bob Momsen	52	* 200 YD BREASTSTROKE		4:52.76 George Wendt	51	21:27.50 Steven Kovary	57		
11:15.18 Gaard Arneson	51	2:17.16 ROBERT STRAND	96	4:53.09 Bob Kolonkowski	51	21:31.22 Alex Johnston	55		
11:35.51 Hugh Wilder	51	2:19.32 Robert Strand	53	4:56.31 John Derr	50	21:58.51 Eric Hutchinson	56		
11:35.59 Jim McCleery	52	2:24.23 John Derr	50	4:59.21 Daniel Rogacki	51	* 50 YD BACKSTROKE			
11:41.91 Jorge Gonzalez	50	2:27.60 Mal Jester	50	5:04.35 Jim Lawrie	52	26.86 ROBERT SMITH	99		
11:45.02 Gary R Brenner	51	2:27.64 George Wendt	51	5:06.55 Gaard Arneson	51	26.86 Robert Smith	55		
* 1650 YD FREESTYLE		2:29.56 Michael Merrell	51					27.87 Richard Burns	55
17:40.50 TOD SPIEKER	99	2:30.87 Kenneth Frost	54	MEN 55-59				29.10 Stephen Clark	55
17:40.50 R Tod Spieker	50	2:30.98 Bill Griffith	52	* 50 YD FREESTYLE				29.77 Gary Chase	59
18:18.86 Keith F Bell	50	2:33.80 Daniel Rogacki	51	22.99 JAMES ELDER	98	30.14 Steve Kern	56		
18:40.04 Joel R Wilson	50	2:34.01 Edward Nessel	53	23.09 Robert Smith	55	30.48 Michael McKinlay	55		
19:04.13 Steve M Johnson	51	2:34.58 David Ugarkovich	51	23.59 Stephen Clark	55	30.80 Allen Neuls	55		
19:04.53 Gaard Arneson	50	* 50 YD BUTTERFLY		23.79 Keefe Lodwig	55	30.85 Jack Geoghegan	56		
19:07.64 Jim Lawrie	52	24.62 STEVE BOROWSKI	98	24.78 Frans D Nelson	56	31.48 Peter Betzer	56		
19:18.43 Bill Darby	51	24.62 Steve Borowski	51	24.96 Richard Burns	55	31.71 Dave Frank	55		
19:20.02 William Cerny	51	24.64 Rich Abrahams	54	25.02 Tom Landis	57	* 100 YD BACKSTROKE			
19:41.64 Jorge Gonzalez	50	25.55 Andrew Mc Pherson	52	25.07 James White	56	59.61 ROBERT SMITH	99		
19:44.90 Tom Meade	51	25.58 Joel Burns	53	25.07 Richard Woodrow	55	59.61 Robert S Smith	55		
* 50 YD BACKSTROKE		25.66 Dick Thomas	51	25.09 Mike Freshley	57	59.90 Richard Burns	55		
26.24 ROBERT SMITH	93	25.80 Boo Graner-Gallas	51	25.09 Ray Ellis	56	1:05.51 Allen Neuls	55		
26.73 Dick Thomas	51	26.04 Fred Schlicher	50	* 100 YD FREESTYLE				1:06.07 Edward G Cazalet	56
26.87 Hugh Wilder	51	26.10 John Derr	50	50.57 TIMOTHY GARTON	98	1:06.23 Gary Chase	59		
27.01 Tim Birnie	53	26.30 Chris Ostrom	53	51.51 Keefe Lodwig	55	1:08.22 Larry Raffaelli	56		
27.44 Andrew Mc Pherson	52	26.37 James De Lacy	52	52.17 Stephen Clark	55	1:08.64 Peter Betzer	56		
27.54 Bob Kolonkowski	51	* 100 YD BUTTERFLY		52.79 Ed Cazalet	57	1:09.08 Eric Jensen	57		
27.56 J Nathan Leech	50	54.48 RICHARD ABRAHAMS	98	54.65 Robert Smith	55	1:09.75 Bill Rupert	55		
27.63 Daniel Rogacki	51	54.82 Fred Schlicher	50	55.14 Jack Schiltz	55	1:10.02 Michael McKinlay	55		
28.12 John Enterline	52	55.51 Boo Graner-Gallas	51	55.71 Richard Burns	55	* 200 YD BACKSTROKE			
28.27 Bill Barthold	50	56.56 Joel Burns	53	56.02 Tom Landis	56	2:15.33 ED CAZALET	98		
28.43 John Fitzgerald	50	56.58 Rich Abrahams	54	56.07 Mike Freshley	58	2:15.67 Richard Burns	55		
* 100 YD BACKSTROKE		56.88 Andrew Mc Pherson	52	56.19 Robert Poiletman	55	2:17.27 Ed Cazalet	56		
57.28 HUGH WILDER	98	57.11 Dick Thomas	51	56.24 Richard H Woodrow	55	2:25.18 Allen Neuls	55		
57.71 Tim Birnie	53	58.71 John Derr	50	56.35 Paul Chaffee	56	2:25.81 Robert Poiletman	55		
57.91 Hugh Wilder	51	59.19 Bob Kolonkowski	51	* 200 YD FREESTYLE				2:31.06 Larry Raffaelli	56
58.86 Dick Thomas	51	59.38 Arthur Deffaa	50	1:52.90 TIMOTHY GARTON	98	2:32.69 Peter Betzer	56		
59.31 Tod Spieker	50	1:00.11 Larry E Wright	50	1:57.91 Keefe Lodwig	55	2:33.42 Gary Chase	59		
1:00.40 Bill Barthold	50	* 200 YD BUTTERFLY		2:00.79 Tom Landis	57	2:34.84 Eric Jensen	57		
1:00.50 J Nathan Leech	50	2:02.56 FRED SCHLICHER	99	2:02.23 Ed Cazalet	56	2:34.96 Murray Mc Lachlan	58		
1:00.85 Bob Kolonkowski	51	2:02.56 Fred Schlicher	50	2:02.79 Richard Burns	55	2:36.87 Bill Rupert	55		
1:01.04 Daniel Rogacki	51	2:04.81 Boo Graner-Gallas	51	2:06.99 Dan Willert	56	* 50 YD BREASTSTROKE			
1:01.31 John Fitzgerald	50	2:11.80 Keith F Bell	50	2:07.97 Mike Freshley	58	30.18 MANUEL SANGUILY	99		
1:03.78 Richard Kittel	51	2:13.15 Joel R Wilson	50	2:08.42 Tim Griffin	55	30.23 Peter Andersen	55		
* 200 YD BACKSTROKE		2:15.11 Bob Kolonkowski	51	2:08.61 Henry Southall	59	30.49 Robert S Smith	55		
2:05.92 TOD SPIEKER	99	2:15.17 Joel Burns	53	2:10.45 Paul Chaffee	56	31.11 Jack Schiltz	56		
2:05.92 Tod Spieker	50	2:22.23 George Wendt	51	2:10.85 Douglas Brown	59	31.53 Peter Oroszlan	55		
2:06.42 Tim Birnie	53	2:23.16 Randy Brown	51	* 500 YD FREESTYLE					
2:09.82 Hugh Wilder	51	2:24.34 Arthur Deffaa	50	5:22.70 JACK GEOGHEGAN	97	31.84 Thomas Boak	55		
2:12.93 Bill Barthold	50	2:25.49 John Derr	50	5:30.29 Sandy Galletty	56	32.17 David Gildea	55		
2:14.88 J Nathan Leech	50	* 100 YD INDIVIDUAL MEDLEY		5:36.34 Ed Cazalet	56	32.43 Kingsley Boyd	55		
2:16.32 Bob Kolonkowski	51	56.70 ROBERT STRAND	98	5:41.55 Tom Landis	57	32.52 Dave Frank	55		
2:16.58 John Fitzgerald	51	57.76 Robert Strand	53	5:43.26 T Haraszti	57	32.63 Louis Kronfeld	56		
2:18.57 John Osterloh	50	59.68 Dick Thomas	51	5:45.52 Tim Griffin	55	32.76 Phillip Whitten	55		
2:20.62 Richard Kittel	51	59.82 Andrew Mc Pherson	52	5:50.88 Jack Geoghegan	56	* 100 YD BREASTSTROKE			
2:22.20 Frank Warner	50	59.83 John Derr	50	6:00.89 Dan Willert	56	1:06.67 DRURY GALLAGHER	95		
* 50 YD BREASTSTROKE		59.90 J Nathan Leech	50	6:01.12 Henry Southall	59	1:08.18 Jack Schiltz	56		
28.00 ROBERT STRAND	98	1:00.16 Daniel Rogacki	51	6:01.80 Jeffrey Galper	57	1:09.35 Tegze Haraszti	57		
28.25 Don W McKenzie	52	1:01.69 Rich Abrahams	54	6:02.52 Joseph R Walker	57	1:10.15 David Gildea	55		
28.49 Robert Strand	53	1:01.73 John Enterline	52	* 1000 YD FREESTYLE					
30.41 Mal Jester	50	1:01.74 Michael Ahern	54	11:22.13 DRURY GALLAGHER	97	1:10.25 Peter Andersen	55		
30.48 John Enterline	52	1:01.77 Hugh Wilder	51	11:41.20 Ed Cazalet	56	1:11.03 Peter Oroszlan	55		
30.52 Allen Stark	50	* 200 YD INDIVIDUAL MEDLEY		11:58.59 Tom Landis	56	1:11.10 Kingsley Boyd	55		
30.54 Daniel Rogacki	51	2:07.80 ROBERT STRAND	98	11:58.85 T Haraszti	57	1:11.11 Robert Poiletman	55		
30.66 Bill Griffith	52	2:11.45 Robert Strand	53	12:31.21 Dan Willert	56	1:11.77 Thomas Boak	55		
30.75 Kenneth Frost	54	2:11.76 Boo Graner-Gallas	51	12:36.89 Warner Brundage	55	1:11.91 Robert Smith	55		
30.80 Mabry Tyson	50	2:12.72 Andrew Mc Pherson	52	12:38.69 Bill Conroy	55	1:11.93 Phillip Whitten	55		
30.80 Allen W Anderson	50	2:14.02 Joel R Wilson	50	12:43.66 Henry Southall	59	* 200 YD BREASTSTROKE			
* 100 YD BREASTSTROKE		2:14.09 Daniel Rogacki	51	12:46.48 Murray Mc Lachlan	58	2:31.23 DRURY GALLAGHER	95		
						2:33.31 T Haraszti	57		
						2:34.61 Jack Schiltz	56		

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2:36.46 Phillip Whitten 55	5:29.65 Peter Betzer 56	29.50 YOSHI OYAKAWA 97	29.50 Dave Costill 63
2:36.58 David Gildea 55	5:30.58 Larry Raffaelli 56	30.10 Jeff Farrell 62	29.65 David Diget 60
2:37.51 Robert Poiletman 55		30.82 Bill Earley 62	30.39 Mel Goldstein 60
2:39.28 Mike Freshley 58	MEN 60-64	32.04 Lewis Cook 61	30.76 Bill Robertson 62
2:39.41 Jim Pelissier 55		32.25 Rolffs Pinkerton 60	30.78 Jerry Katz 60
2:40.93 Warner F Brundage 56	• 50 YD FREESTYLE	32.29 Barr Clayton 63	• 100 YD BUTTERFLY
2:41.11 Bill Brown 55	23.28 JEFF FARRELL 97	32.39 Tim C Thornton 62	1:03.09 DAVID COSTILL 97
2:41.74 Kingsley Boyd 55	23.91 Jeff Farrell 62	32.47 David McIntyre 61	1:03.27 Bert Petersen 60
• 50 YD BUTTERFLY	25.17 Cav Cavanaugh 63	32.75 William Radack 61	1:06.79 Dave Costill 63
25.33 KEEFE LODWIG 99	25.26 Jerry Clark 61	32.84 Fred Wendelken 60	1:07.94 Dennis O'Brien 63
25.33 Keefe Ludwig 55	25.82 Douglas Brown 60	33.16 Jack Beattie 64	1:08.52 Mel Goldstein 60
26.01 Robert Smith 55	25.90 James Krueger 60	• 100 YD BACKSTROKE	1:10.88 Emory Haworth 63
26.27 Stephen Clark 55	26.02 Charles Raven 60	1:05.09 DON BROWN 94	1:12.47 Jim E Perilman 60
26.58 Ray Ellis 56	26.17 Jerry Myers 60	1:08.23 David Diget 60	1:13.19 Bill Earley 62
26.78 Jack Schiltz 56	26.33 Tim C Thornton 62	1:10.51 Jack Beattie 64	1:14.00 Barry A Fasbender 61
27.09 Richard Woodrow 55	26.79 Rolffs Pinkerton 60	1:10.91 Rolffs Pinkerton 60	1:15.48 William Jones 62
27.28 James White 56	26.85 Bill Earley 62	1:11.05 Laurance Hill 60	1:17.39 William Lauer 64
27.37 Robert Poiletman 55	• 100 YD FREESTYLE	1:11.33 Bill Earley 62	• 200 YD BUTTERFLY
27.56 Mike Freshley 58	52.03 JEFF FARRELL 97	1:11.54 Fred Wendelken 60	2:29.92 DAVID COSTILL 96
27.73 Dave Frank 55	53.75 Jeff Farrell 62	1:11.70 Barr Clayton 63	2:38.44 Mel Goldstein 60
• 100 YD BUTTERFLY	54.62 Jerry Clark 61	1:13.14 Richard Hanley 63	2:43.58 Dennis O'Brien 63
58.77 TIMOTHY GARTON 98	56.80 Cav Cavanaugh 63	1:13.22 Lee Bettis 61	2:48.76 Emory Haworth 63
59.06 Robert Poiletman 55	57.20 Douglas Brown 60	1:13.36 William Radack 61	2:55.91 Jim E Perilman 60
1:01.66 Stephen Clark 55	57.79 Charles Raven 60	• 200 YD BACKSTROKE	2:56.19 Barry A Fasbender 61
1:02.88 Jeffery Galper 57	57.99 David Diget 60	2:23.30 DON BROWN 94	2:57.69 Bert Petersen 60
1:02.90 Robert Smith 55	58.21 Tim C Thornton 62	2:32.27 Laurance Hill 60	3:00.71 William Lauer 64
1:03.52 Larry Raffaelli 56	58.56 David Harrison 61	2:38.47 Richard Hanley 63	3:03.83 Dren Geer 64
1:03.53 Ray Ellis 56	59.20 Jerry Myers 60	2:38.55 Jack Beattie 64	3:06.46 Landon Kirchner 60
1:04.50 Richard H Woodrow 55	59.75 Steve Moseley 61	2:38.79 Fred Wendelken 60	3:08.77 William Jones 61
1:04.59 Jack Schiltz 55	• 200 YD FREESTYLE	2:40.04 Lee Bettis 61	• 100 YD INDIVIDUAL MEDLEY
1:05.34 Bill Brown 55	1:59.62 JEFF FARRELL 97	2:40.73 Rolffs Pinkerton 60	1:02.52 JEFF FARRELL 97
1:05.78 Hugh Roddin 57	2:04.41 Drury Gallagher 60	2:41.20 Barr Clayton 63	1:03.20 Jeff Farrell 62
• 200 YD BUTTERFLY	2:06.43 David Harrison 61	2:41.70 Robert F Norris 60	1:04.13 Drury Gallagher 60
2:12.86 ROBERT POILETMAN 99	2:08.54 Jerry Clark 61	2:45.04 Bill Earley 62	1:06.03 David Diget 60
2:12.86 Robert Poiletman 55	2:11.03 Cav Cavanaugh 63	2:45.55 James Duley 60	1:08.04 Tim C Thornton 62
2:26.66 Jeffery Galper 57	2:11.53 Douglas Brown 60	• 50 YD BREASTSTROKE	1:08.26 Ron Scheidelman 64
2:32.01 Hugh Roddin 56	2:12.83 Charles Raven 60	31.17 DRURY GALLAGHER 99	1:08.43 Bill Earley 62
2:35.50 Larry Raffaelli 56	2:18.56 Bill Robertson 62	31.17 Drury Gallagher 60	1:08.72 Fred Wendelken 60
2:43.54 Peter Cameron 55	2:18.73 Mel Goldstein 60	31.65 Jeff Farrell 62	1:09.02 Cav Cavanaugh 63
2:45.60 Andy Barry 56	2:19.53 Jerry Myers 60	32.78 Karl Wiedemann 60	1:10.54 Jerry Myers 60
2:49.48 Jim E Perilman 59	2:19.87 Laurance Hill 60	33.24 Bob Johnston 62	1:10.59 Dick A Peterson 62
2:50.03 Ray Ellis 56	• 500 YD FREESTYLE	33.44 David Daboll 62	• 200 YD INDIVIDUAL MEDLEY
2:54.11 Alan Becker 56	5:36.31 DRURY GALLAGHER 99	33.45 James Krueger 60	2:20.29 DRURY GALLAGHER 99
2:55.07 Erik Lokensgard 56	5:36.31 Drury Gallagher 60	34.32 Milton Gee 62	2:20.29 Drury Gallagher 60
• 100 YD INDIVIDUAL MEDLEY	5:49.42 David Harrison 61	34.58 Jim E Perilman 60	2:32.52 David Diget 60
58.79 TIMOTHY GARTON 98	5:58.75 Jerry Clark 61	35.45 Barr Clayton 63	2:33.70 Mel Goldstein 60
59.26 Robert S Smith 55	6:01.84 Charles Raven 60	35.53 Jerry Myers 60	2:35.22 Dennis O'Brien 63
1:02.42 Jack Schiltz 56	6:05.40 Ed Curtis 63	• 100 YD BREASTSTROKE	2:36.85 Dick A Peterson 62
1:02.43 Richard Burns 55	6:07.77 Lee Fitzhugh 61	1:09.35 DRURY GALLAGHER 99	2:37.32 Fred Wendelken 60
1:02.58 Stephen Clark 55	6:10.61 Douglas Brown 60	1:09.35 Drury Gallagher 60	2:40.84 Emory Haworth 63
1:04.90 James White 56	6:12.40 Mel Goldstein 60	1:13.51 Bob Johnston 62	2:42.94 Bill Earley 62
1:05.10 Ray Ellis 56	6:20.90 Laurance Hill 60	1:14.20 Karl Wiedemann 60	2:43.96 William Lauer 64
1:05.14 Allen Neuls 55	6:24.94 David Radcliff 64	1:15.23 Bob Patten 64	2:47.42 Pete Magee 61
1:05.39 Mike Freshley 58	• 1000 YD FREESTYLE	1:15.96 James Krueger 60	• 400 YD INDIVIDUAL MEDLEY
1:05.40 Dave Frank 55	11:35.68 DRURY GALLAGHER 99	1:17.25 David Diget 60	5:09.07 DRURY GALLAGHER 99
1:05.72 Tom Landis 57	11:35.68 Drury Gallagher 60	1:17.40 Jim E Perilman 60	5:09.07 Drury Gallagher 60
• 200 YD INDIVIDUAL MEDLEY	12:00.63 David Harrison 61	1:17.81 Jack G Halliday 62	5:35.87 Mel Goldstein 60
2:09.92 TIMOTHY GARTON 98	12:30.95 Jerry Clark 61	1:17.89 Milton Gee 62	5:38.55 Dennis O'Brien 63
2:17.59 Ed Cazalet 56	12:35.56 Douglas Brown 60	1:19.00 Dick A Peterson 62	5:42.98 David Diget 60
2:19.78 Robert Poiletman 55	12:37.78 Mel Goldstein 60	• 200 YD BREASTSTROKE	5:51.63 Dick A Peterson 62
2:22.47 Allen Neuls 55	12:59.96 Laurance Hill 60	2:36.27 DRURY GALLAGHER 99	5:54.05 William Lauer 64
2:23.38 Sandy Galletly 56	13:12.03 Carl Woolley 62	2:36.27 Drury Gallagher 60	6:01.17 Emory Haworth 63
2:24.90 Bill Brown 55	13:17.52 David Radcliff 64	2:46.43 Karl Wiedemann 60	6:02.78 James Duley 60
2:25.82 Murray Mc Lachlan 58	13:25.29 Dick A Peterson 62	2:47.26 Bob Patten 64	6:04.78 Barry A Fasbender 61
2:25.93 Mike Freshley 58	13:36.71 Kent M Price 60	2:48.27 Bob Johnston 62	6:08.31 Joel Jacobs 63
2:27.69 Jim Pelissier 55	• 1650 YD FREESTYLE	2:49.14 Dick A Peterson 62	
2:28.06 Kingsley Boyd 55	19:28.49 GRAHAM JOHNSTON 95	2:53.69 Barr Clayton 63	MEN 65-69
2:28.82 Tom Landis 56	20:01.66 David Harrison 61	2:53.85 Jerry Myers 60	
• 400 YD INDIVIDUAL MEDLEY	20:25.47 Charles Raven 60	2:55.47 Mel Goldstein 60	• 50 YD FREESTYLE
4:56.23 DRURY GALLAGHER 97	21:33.27 Mel Goldstein 60	2:55.74 Joel Jacobs 63	25.09 DONALD HILL 98
5:01.76 Ed Cazalet 56	21:34.98 E Lee Fitzhugh 61	2:56.21 Sid Hall 63	25.51 Ronald Johnson 66
5:05.86 Sandy Galletly 56	22:23.02 Steve Moseley 61	• 50 YD BUTTERFLY	26.46 Yoshi Oyakawa 65
5:12.34 Allen Neuls 55	22:25.06 Kent M Price 60	27.12 JEFF FARRELL 98	26.83 Dren Geer 65
5:24.07 Hugh Roddin 57	22:30.21 Carl Woolley 62	27.30 Bert Petersen 60	26.92 Richard Weick 65
5:26.99 Robert R Williams 56	22:36.71 A Emory Haworth 63	27.39 Jeff Farrell 62	27.35 Philip Chapman 68
5:27.27 Jack Schiltz 56	22:38.63 David Radcliff 64	28.70 James Krueger 60	27.53 John F Sulzbach 65
5:28.07 Murray Mc Lachlan 58	23:03.96 Barry A Fasbender 61	29.05 Cav Cavanaugh 63	27.82 Donald Baker 68
5:29.61 Peter Cameron 55	• 50 YD BACKSTROKE	29.41 Dennis O'Brien 63	28.08 Daniel R Osborne 65

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28.13 John Kortheuer	68	1:11.06 Clarke Mitchell	66	1:27.15 Buddy Belshe	65	2:15.58 WILLIAM PHILLIPS	98
28.22 Bob Best	66	1:12.75 Richard Bennett	68	1:27.46 Ed Rosenhauer	67	2:16.95 William Phillips	71
• 100 YD FREESTYLE		1:16.90 Bob Miller	69	• 200 YD BUTTERFLY		2:17.86 Robert Miller	70
56.24 PETER POWLISON	87	1:17.18 Alan Rapperport	65	2:41.99 CHARLES MOSS	93	2:24.32 Peter van Dijk	70
56.74 Ronald Johnson	66	1:17.19 Dren Geer	65	2:50.32 Ronald Johnson	67	2:26.86 Roger Franks	72
59.08 Dren Geer	65	1:17.90 Wally Dobler	65	2:51.23 Dren Geer	65	2:28.49 Ed Kerswill	73
59.36 Graham Johnston	68	1:18.64 John F Sulzbach	65	3:01.34 Herb Kern	66	2:36.90 Harvey Prosser	70
1:00.89 Yoshi Oyakawa	65	1:18.93 Richard Weick	65	3:09.97 John Lenard	68	2:37.77 Win B Wilson	72
1:01.95 Richard Weick	65	• 200 YD BACKSTROKE		3:10.31 Buddy Belshe	65	2:38.01 Alfred Groh	71
1:02.52 Donald Baker	68	2:30.53 ROGER FRANKS	93	3:19.71 Elmer Egelkraut	65	2:41.17 Robert Heritier	70
1:03.03 Daniel Osborne	65	2:30.69 Donald Brown	65	3:22.33 Parry O'Brien	67	2:43.21 W Morgan Byers	71
1:03.78 John Ries	66	2:40.19 Clarke Mitchell	66	3:31.39 Robert Kueny	68	• 500 YD FREESTYLE	
1:04.01 Richard Bennett	68	2:42.63 Bob Miller	69	3:33.46 Charles Kohnken	67	6:12.46 WILLIAM PHILLIPS	98
1:04.44 Bruce Hutchinson	65	2:42.82 Yoshi Oyakawa	65	3:36.82 H Donalds Messer	67	6:16.89 Robert Miller	70
• 200 YD FREESTYLE		2:46.13 Richard Bennett	68	• 100 YD INDIVIDUAL MEDLEY		6:18.96 William Phillips	71
2:06.63 GRAHAM JOHNSTON	97	2:48.34 Alan Rapperport	65	1:05.65 RONALD JOHNSON	98	6:44.39 Ed Kerswill	73
2:09.12 Graham Johnston	68	2:50.00 Dren Geer	65	1:06.82 Ronald Johnson	67	6:47.13 Roger Franks	72
2:14.07 Dren Geer	65	3:04.37 Ken Pollock	66	1:10.17 Donald Brown	65	6:56.07 Win B Wilson	72
2:21.15 Yoshi Oyakawa	65	3:04.96 Paul Kiell	68	1:11.23 Yoshi Oyakawa	65	7:02.26 Frank Piemme	74
2:21.89 Buddy Belshe	65	3:05.07 Arnie Green	66	1:11.79 Richard Weick	65	7:07.02 Harvey W Prosser	70
2:25.23 John Ries	66	• 50 YD BREASTSTROKE		1:12.44 Clarke Mitchell	66	7:20.39 William Irwin	70
2:25.41 Daniel Osborne	65	32.91 NICK TEMPLEMAN	97	1:12.90 John Kortheuer	68	7:24.14 Robert Heritier	70
2:25.44 Dave Anderson	67	34.27 Ronald Johnson	66	1:13.11 Wally Dobler	65	7:27.17 Robert Blake	71
2:25.51 Bob Miller	69	34.78 Myron Lockey	67	1:13.53 Herb Kern	66	• 1000 YD FREESTYLE	
2:26.44 Wally Dobler	65	35.30 Ron Taylor	66	1:14.20 Bob Best	66	12:52.98 WILLIAM PHILLIPS	98
2:27.37 Robert L Kahl	65	35.46 Bob Best	66	1:16.62 Alan Rapperport	65	13:16.64 William Phillips	71
• 500 YD FREESTYLE		35.48 John Kortheuer	68	• 200 YD INDIVIDUAL MEDLEY		13:43.03 Roger Franks	72
5:44.52 GRAHAM JOHNSTON	97	35.86 Richard Weick	65	2:28.69 RONALD JOHNSON	99	14:20.82 Harvey Prosser	70
5:44.68 John Lenard	67	36.51 Norman E Stupfel	66	2:28.69 Ronald Johnson	67	14:27.13 Win B Wilson	72
5:54.98 Graham Johnston	68	36.65 Milton Marks	68	2:34.49 Donald Brown	65	14:32.45 Ed Kerswill	72
6:21.81 Dren Geer	65	36.69 Thomas Taylor	68	2:37.91 Wally Dobler	65	14:56.28 Robert Heritier	70
6:26.76 Buddy Belshe	65	37.10 Frank Nieman	66	2:46.22 Herb Kern	66	15:10.15 Duane Draves	72
6:34.58 Dave Anderson	67	• 100 YD BREASTSTROKE		2:47.96 Buddy Belshe	65	15:51.37 W Morgan Byers	71
6:36.87 Wayne Leengran	68	1:13.78 NICK TEMPLEMAN	97	2:48.63 Dick Weick	65	16:18.96 Fred Trask	71
6:41.04 John Kalas	65	1:15.73 Ronald Johnson	66	2:50.08 Clarke Mitchell	66	16:38.58 Calvin Barnes	74
6:50.66 Bill King	65	1:17.58 John Kortheuer	68	2:52.63 Alan Rapperport	65	• 1650 YD FREESTYLE	
6:51.71 Thomas Taylor	68	1:21.18 Myron Lockey	67	2:53.04 Daniel R Osborne	65	22:05.90 WILLIAM PHILLIPS	98
6:56.35 Stephen Mullins	66	1:22.59 Donald Baker	68	2:53.81 John F Sulzbach	65	22:43.13 Roger Franks	72
• 1000 YD FREESTYLE		1:22.64 Walter Lincoln	65	• 400 YD INDIVIDUAL MEDLEY		22:52.23 William Phillips	71
11:49.31 GRAHAM JOHNSTON	97	1:23.04 Wesley Mayer	66	5:26.41 GRAHAM JOHNSTON	97	23:27.91 Ed Kerswill	73
12:23.45 Graham Johnston	68	1:23.25 Norman Stupfel	66	5:42.50 Ronald Johnson	67	23:56.04 Robert Blake	74
13:21.86 Buddy Belshe	65	1:23.39 Bob Best	66	6:09.79 Herb Kern	66	24:04.12 Harvey W Prosser	70
13:32.60 Bob Miller	69	1:23.87 Frank Nieman	66	6:15.49 Alan Rapperport	65	25:40.89 Robert Heritier	70
13:38.46 Dave Anderson	67	1:24.83 Jack Vanlandingham	65	6:17.18 John Lenard	68	26:02.41 Lee Arth	74
13:51.34 John Kalas	65	• 200 YD BREASTSTROKE		6:27.30 Walter Lincoln	65	26:16.67 W Morgan Byers	71
14:03.30 Thomas Taylor	68	2:45.94 RONALD JOHNSON	99	6:29.68 Yoshi Oyakawa	65	27:27.54 Doug Strong	74
14:12.70 Robert Kahl	65	2:45.94 Ronald Johnson	67	6:31.88 Clarke Mitchell	66	27:50.91 Elmer Luke	72
14:15.16 Bruce Hutchinson	65	3:05.03 Walter Lincoln	65	6:32.50 John F Sulzbach	65	• 50 YD BACKSTROKE	
14:17.62 Alan Rapperport	65	3:05.99 Frank Nieman	66	6:34.21 Yu-Jin Lee	65	31.84 PAUL HUTINGER	95
14:23.66 Stephen Mullins	66	3:06.47 Wesley Mayer	66	6:45.39 Stephen Mullins	66	34.55 Peter Van Dijk	70
• 1650 YD FREESTYLE		3:09.04 John Lenard	68			35.01 Duane Draves	72
20:00.61 GRAHAM JOHNSTON	97	3:09.18 Myron Lockey	67			36.01 Thomas Smith	71
20:31.91 Graham Johnston	68	3:09.44 Norman Stupfel	66			37.88 Dale Webster	73
22:05.51 Buddy Belshe	65	3:09.70 Thomas Taylor	68			38.19 Frank Piemme	74
23:00.63 Wayne Leengran	68	3:15.53 Kenneth Flynn	69			38.22 William Haynes	72
23:24.10 Tom Taylor	68	3:15.66 Jack Vanlandingham	65			38.42 Alfred Groh	71
23:26.26 Bruce Hutchinson	65	• 50 YD BUTTERFLY				38.50 William Phillips	71
23:55.67 Bill King	65	27.80 RONALD JOHNSON	98			38.57 William Peckham	70
24:04.73 Stephen Mullins	66	27.83 Ronald Johnson	67			38.74 Paul Hutinger	74
24:12.36 Roger C Campbell	68	29.45 Wally Dobler	65			• 100 YD BACKSTROKE	
24:29.88 Fred Lehman	68	30.08 Herb Kern	66			1:11.56 PAUL HUTINGER	95
24:35.30 Robert W Mayo	65	30.96 Richard Weick	65			1:13.47 Roger Franks	72
• 50 YD BACKSTROKE		31.24 John Kortheuer	68			1:14.06 Robert Miller	70
29.55 YOSHI OYAKAWA	99	31.79 Clarke Mitchell	66			1:15.91 Peter van Dijk	70
29.55 Yoshi Oyakawa	65	32.62 Parry O'Brien	67			1:17.62 Duane Draves	72
31.72 Donald L Brown	65	33.22 Dren Geer	65			1:19.69 Thomas Smith	71
31.75 Clarke Mitchell	66	33.50 Dick Webber	69			1:22.86 William Haynes	72
33.48 Richard Bennett	68	33.68 Arnie Green	66			1:23.08 Dale Webster	73
33.96 Ronald Johnson	67	• 100 YD BUTTERFLY				1:23.42 Alfred Groh	71
34.90 John W Goode	65	1:06.43 RONALD JOHNSON	99			1:24.98 Ralph Perry	72
35.03 Robert Mayo	65	1:06.43 Ronald Johnson	67			1:25.15 George Erswell	72
35.05 Richard Weick	65	1:09.14 Wally Dobler	65			• 200 YD BACKSTROKE	
35.32 Bruce Hutchinson	65	1:18.70 Clarke Mitchell	66			2:37.63 ROBERT MILLER	99
35.61 John F Sulzbach	65	1:20.31 John Lenard	68			2:37.63 Robert Miller	70
• 100 YD BACKSTROKE		1:20.81 Don Rice	65			2:40.19 Roger Franks	72
1:05.58 YOSHI OYAKAWA	99	1:21.25 Dren Geer	65			2:54.56 Duane Draves	72
1:05.58 Yoshi Oyakawa	65	1:21.90 Parry O'Brien	67			2:55.63 Peter Van Dijk	70
1:08.58 Donald L Brown	65	1:24.80 Norman E Stupfel	66			2:58.80 Alfred Groh	71

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3:04.62 Ralph Perry 72	1:11.72 FRANK PIEMME 95	7:49.58 Jack Huber 77	46.20 Richard Avery 76
3:11.38 Luman Sutton 72	1:12.40 Frank Piemme 74	7:53.72 Gilbert Young 75	46.51 James Worrel 76
3:11.72 William Haynes 72	1:13.19 Robert Miller 70	8:09.69 James Edwards 76	100 YD BREASTSTROKE
3:12.59 Ralph Coxhead 70	1:16.40 Duane Draves 72	8:10.82 Fred Taioli 78	1:25.80 ALDO DA ROSA 93
3:15.24 Justin Diehl 70	1:16.87 Thomas Smith 71	8:12.53 W W Blanchard 75	1:31.58 John Wren 78
50 YD BREASTSTROKE	1:17.14 Fred Leipziger 71	8:20.45 Calvin Barnes 75	1:31.88 Max Von Isser 79
35.35 BARTON GREENBERG 95	1:18.23 Robert MacDonald 70	8:21.02 Dick Margerum 75	1:33.46 Edward Rudloff 75
37.01 Robert MacDonald 70	1:20.15 George Erswell 72	8:24.27 Dan Miles 78	1:33.83 Bob Merrick 78
37.30 Charles Urstadt 70	1:20.70 Al Craig 71	1000 YD FREESTYLE	1:36.85 Raymond Hakomaki 78
37.66 Fred Leipziger 71	1:20.86 Roger Franks 72	14:14.46 RAY TAFT 95	1:41.55 Norman Garsoe 75
38.40 F Ted Haartz 71	1:21.00 Alfred Groh 71	15:16.49 Jurgen Schmidt 76	1:41.58 Raymond F Taft 79
39.00 William Irwin 71	200 YD INDIVIDUAL MEDLEY	15:53.49 Raymond F Taft 79	1:42.06 Tom F Dowell 76
39.63 Frank Piemme 74	2:43.52 ROBERT MILLER 99	16:18.71 Gilbert Young 76	1:42.87 James Worrel 76
39.72 August Motmans 71	2:43.52 Robert Miller 70	16:32.54 Fred Taioli 78	1:47.72 Richard Avery 76
39.97 G Edward Rudloff 70	2:54.32 Roger Franks 72	17:20.85 Bob Merrick 78	200 YD BREASTSTROKE
40.05 Alan Maloney 70	2:55.69 Frank Piemme 74	17:29.95 Richard T Smith 78	3:13.37 ALDO DA ROSA 93
40.62 George McVey 71	2:57.49 Robert MacDonald 70	18:18.88 James Edwards 76	3:28.33 Bob Merrick 78
100 YD BREASTSTROKE	3:02.72 Thomas Smith 71	18:24.82 Tom Mc Call 76	3:33.22 Edward Rudloff 75
1:19.95 BARTON GREENBERG 95	3:09.60 Lee Arth 74	18:27.41 Dan Miles 78	3:35.84 Raymond Hakomaki 78
1:22.45 Robert MacDonald 70	3:11.90 Charles Moss 70	19:25.52 Elmer Frost 76	3:36.26 Norman Garsoe 75
1:25.90 F Ted Haartz 71	3:12.80 Luman Sutton 72	1650 YD FREESTYLE	3:52.42 Tom Mc Call 76
1:27.46 Fred Leipziger 71	3:14.15 Alan Maloney 70	24:40.71 RAY TAFT 95	3:53.71 James Worrel 76
1:28.13 Thomas Smith 71	3:16.33 William Irwin 71	25:55.99 Jurgen Schmidt 76	3:54.84 Richard Avery 76
1:30.13 William Irwin 70	400 YD INDIVIDUAL MEDLEY	26:17.54 Arthur Koblisch 75	3:56.50 Dan Miles 78
1:30.15 Frank Piemme 74	6:05.24 FRANK PIEMME 95	27:23.34 Gilbert Young 76	3:59.82 Robert Lavanture 76
1:30.31 Alan Maloney 70	6:16.23 Roger Franks 72	27:25.27 Fred Taioli 78	4:02.25 Bud Jackson 79
1:31.23 August Motmans 71	6:28.39 Duane Draves 72	27:41.39 James Edwards 76	50 YD BUTTERFLY
1:32.12 Alex MacGillis 70	6:47.33 Thomas Smith 71	28:30.84 Dick Margerum 75	33.17 BIRCH DAVIDSON 94
1:32.99 G Edward Rudloff 70	7:02.53 Alan Maloney 70	29:08.06 Richard T Smith 78	35.14 Jurgen Schmidt 76
200 YD BREASTSTROKE	7:32.95 Art Kelley 73	31:18.74 Tom Mc Call 76	35.61 Andrew Holden 79
3:01.23 FRANK PIEMME 96	7:36.65 Bruno H Weber 71	32:07.32 Ed Lambert 77	37.19 Max Von Isser 79
3:03.56 Al Craig 71	7:39.73 Don Korton 71	32:26.93 Jack Huber 76	40.51 John Woods 75
3:03.62 Robert MacDonald 70	7:42.92 Dale Webster 73	50 YD BACKSTROKE	40.86 Hugh Richards 78
3:10.93 Frank Piemme 74	7:48.31 Gerald Williams 71	34.84 RAY TAFT 95	41.47 Tom F Dowell 76
3:11.71 F Ted Haartz 71	7:49.83 Lou Silverstein 72	39.28 Raymond F Taft 79	41.63 Art Koblisch 75
3:20.01 Robert Cunningham 71		40.23 Richard Avery 76	44.97 Pierce Bray 75
3:20.03 Alan Maloney 70	MEN 75-79	40.23 Andrew Holden 79	45.25 Bob Merrick 78
3:22.39 Fred Leipziger 71		40.91 Gaetano Pavone 76	45.43 Raymond F Taft 79
3:25.22 Lee Arth 74	50 YD FREESTYLE	41.64 Bob Merrick 78	100 YD BUTTERFLY
3:25.40 George McVey 71	28.73 KELLEY LEMMON 87	42.08 John Woods 75	1:23.77 ANDREW HOLDEN 94
3:29.03 August Motmans 71	31.06 Jurgen Schmidt 76	42.09 Calvin Barnes 75	1:31.04 Jurgen Schmidt 76
50 YD BUTTERFLY	31.32 Hugh Richards 78	42.40 Earl Walter 77	1:37.55 Art Koblisch 75
30.21 FRANK PIEMME 98	31.62 Andrew Holden 79	42.42 Gilbert Young 77	1:46.48 Richard T Smith 78
31.30 Frank Piemme 74	31.90 Arthur Koblisch 75	42.58 Willis Wynn 76	1:47.87 Raymond F Taft 79
34.82 William Irwin 70	32.91 Edward Rudloff 75	100 YD BACKSTROKE	1:51.24 Dick D Margerum 78
35.05 Thomas Smith 71	33.00 Herb McAuley 75	1:17.67 RAYMOND TAFT 95	1:51.36 John Briggs 75
35.55 Robert MacDonald 70	33.41 Douglas Shook 75	1:25.97 Raymond F Taft 79	2:02.23 Pierce Bray 75
35.96 Donald Hubbard 71	33.44 Richard Avery 76	1:29.75 Gaetano Pavone 76	2:12.69 Bob Doud 75
36.07 Joseph Kurtzman 72	33.54 John Briggs 75	1:31.12 Bob Merrick 78	2:33.73 Val Ouchakof 75
36.11 Edward Emes 70	33.55 John Woods 75	1:32.51 Jurgen Schmidt 76	2:35.19 John Stern 75
36.11 Jack Mitchell 72	100 YD FREESTYLE	1:33.17 John F Bricker 78	200 YD BUTTERFLY
36.21 Ted Haartz 70	1:04.28 KELLEY LEMMON 88	1:34.39 Calvin Barnes 75	3:17.53 ANTON CERER 92
36.23 Alfred Groh 71	1:13.99 Gilbert Young 77	1:35.54 James Edwards 76	3:36.26 Art Koblisch 75
100 YD BUTTERFLY	1:14.18 Jurgen Schmidt 76	1:35.71 John Woods 75	4:06.95 Richard T Smith 79
1:14.73 WIN WILSON 97	1:15.15 Art Koblisch 75	1:37.58 Raymond Hakomaki 78	4:19.30 Bill Stadig 76
1:20.03 Win B Wilson 72	1:16.97 John Briggs 75	1:40.63 Willis Wynn 76	4:37.89 John Briggs 75
1:26.20 Joseph Kurtzman 72	1:17.75 John Woods 75	200 YD BACKSTROKE	5:28.80 Bob Doud 75
1:27.54 Frank Piemme 74	1:17.95 Raymond F Taft 79	2:54.21 RAYMOND TAFT 95	5:37.38 Val Ouchakof 75
1:28.21 Thomas Smith 71	1:18.68 James Edwards 76	3:10.77 Raymond Taft 79	6:38.14 Dan McNeil 75
1:30.11 Thomas Maine 72	1:18.84 Bob Merrick 78	3:20.65 Gaetano Pavone 76	7:09.61 T R Johnson 76
1:30.43 Jack Mitchell 72	1:19.05 Steve P Carlson 79	3:24.24 Jurgen Schmidt 76	8:30.02 Robert Hall 77
1:30.65 Donald Hubbard 71	1:19.08 Hugh Richards 78	3:25.09 John F Bricker 78	100 YD INDIVIDUAL MEDLEY
1:30.98 Lee Arth 74	200 YD FREESTYLE	3:27.47 Calvin Barnes 75	1:16.12 RAY TAFT 95
1:33.30 Edward Howes 70	2:27.09 RAY TAFT 95	3:27.89 James Edwards 76	1:24.34 Andrew Holden 79
1:33.48 Art Kelley 73	2:39.62 Jurgen Schmidt 76	3:33.07 Earl Walter 77	1:24.91 Raymond Taft 79
200 YD BUTTERFLY	2:44.92 Arthur Koblisch 75	3:33.59 Raymond Hakomaki 78	1:27.17 Jurgen Schmidt 76
2:53.57 JOSEPH KURTZMAN 96	2:50.55 Gilbert Young 76	3:34.69 John Woods 75	1:27.42 Edward Rudloff 75
3:28.68 Joseph Kurtzman 72	2:50.92 Raymond F Taft 79	3:35.82 Norman Garsoe 75	1:28.37 Bob Merrick 78
3:32.87 Lee Arth 74	2:56.68 Steve P Carlson 79	50 YD BREASTSTROKE	1:32.13 Hugh Richards 78
3:33.01 Roger Franks 72	2:57.17 James Edwards 76	37.59 PAUL KRUP 93	1:32.94 Max Von Isser 79
3:37.37 Art Kelley 73	2:58.96 Bob Merrick 78	39.57 Max Von Isser 79	1:34.29 Dan Miles 78
3:43.49 Alan Maloney 70	2:59.22 John Woods 75	40.29 Edward Rudloff 75	1:35.41 John Woods 75
3:47.29 Harvey W Prosser 70	3:01.82 Dan Miles 78	40.89 Tom F Dowell 76	1:37.94 Richard Avery 76
3:47.91 Bruno H Weber 71	3:03.62 W W Blanchard 75	42.76 Bob Merrick 78	200 YD INDIVIDUAL MEDLEY
3:48.97 Edward Howes 70	500 YD FREESTYLE	44.12 Raymond Hakomaki 78	2:54.67 RAYMOND TAFT 95
3:51.08 Don Korton 72	7:00.88 RAY TAFT 95	44.96 Hugh Richards 78	3:09.04 Raymond Taft 79
3:51.38 Donald Hubbard 71	7:23.33 Jurgen Schmidt 76	45.14 Norman Garsoe 75	3:09.34 Jurgen Schmidt 76
100 YD INDIVIDUAL MEDLEY	7:41.14 Raymond F Taft 79	45.40 Andrew Holden 79	3:21.85 Arthur Koblisch 75

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

3:38.67 Richard T Smith 79	21:00.13 Harry Class 83	4:24.46 E Don McCullough 83	1:32.11 Gerson Sobel 88
3:39.09 Dan Miles 78	21:34.83 Gene Crossett 84	4:24.90 Bill Eibl 81	1:36.34 Gene Crossett 85
3:45.07 James Worrel 76	22:42.47 Robert E Freeman 83	4:35.69 Harry Bartlett 82	1:44.21 Dexter Woodford 85
3:47.73 Dick D Margerum 78	30:18.27 Jim Pendergrass 80	5:11.62 Robert Stringham 80	1:47.19 Dave Malbrough 86
3:48.92 Wallace Sawhill 79	• 1650 YD FREESTYLE	5:56.44 Frank Tillotson 84	1:52.40 Fred Walbolt 86
3:49.63 Tom Mc Call 76	26:36.10 ALDO DA ROSA 98	• 50 YD BUTTERFLY	1:58.45 Loyal Buckingham 85
3:51.47 Bill Stadig 76	27:22.39 Aldo V Da Rosa 81	36.46 ANDREW HOLDEN 99	2:02.88 Joseph L Trammell 85
• 400 YD INDIVIDUAL MEDLEY	29:30.14 Robert Johnston 82	36.46 Andrew Holden 80	2:12.24 Raymond Edelhoff 86
6:21.48 RAYMOND TAFT 95	30:06.73 Jim Eubank 82	42.14 Paul Krup 81	2:23.20 Frank Starr 89
7:14.29 Arthur Koblish 75	30:47.06 David Mulliken 80	43.50 William Johnston 80	• 200 YD FREESTYLE
7:33.36 Gerald Huestis 79	32:37.37 John Woods 81	44.44 Aldo V Da Rosa 81	3:16.35 WOODROW BOWERSOCK 99
7:52.19 Raymond F Taft 79	• 50 YD BACKSTROKE	46.85 Jim Pendergrass 80	3:16.35 Woodrow Bowersock 85
7:58.67 Richard T Smith 79	38.70 ALDO DA ROSA 99	53.71 Edwin Wolpaw 83	3:34.99 Gene Crossett 85
8:17.84 Bill Stadig 76	38.70 Aldo V Da Rosa 81	1:00.58 E Don McCullough 83	3:40.84 Gerson Sobel 88
8:49.05 Bob Acker 77	42.01 John Merrill 81	1:16.54 Gil Spear 84	3:49.81 Jim Triolo 85
9:25.98 Val Ouchakof 75	43.81 William Rowe 83	1:20.93 Frank Tillotson 83	3:52.10 Dexter Woodford 85
9:57.22 Herb McAuley 76	45.04 John White 82	1:29.94 Charles Woolls 83	4:19.46 Fred Walbolt 86
10:47.11 Bob Doud 75	45.83 Bill Woosley 81	• 100 YD BUTTERFLY	4:26.21 Loyal Buckingham 85
11:07.51 Dan McNeil 75	46.91 Edward Shea 84	1:30.06 ANDREW HOLDEN 99	5:24.26 Everett Cassell 85
	47.48 Harry Howell 81	1:30.06 Andrew Holden 80	5:39.14 Boyd Campbell 89
	50.18 Bill Eibl 81	1:43.59 Aldo V Da Rosa 81	• 500 YD FREESTYLE
MEN 80-84	50.28 Jim S Triolo 84	1:44.77 Paul Krup 81	9:00.31 GUS LANGNER 90
	50.32 Harry Class 83	1:50.55 William Johnston 80	9:26.89 Woodrow Bowersock 85
• 50 YD FREESTYLE	• 100 YD BACKSTROKE	2:02.73 Jim Pendergrass 80	9:44.50 Dexter Woodford 85
31.09 WOODROW BOWERSOCK 94	1:27.58 EDWARD SHEA 95	2:19.57 E Don McCullough 83	9:51.23 Jim Triolo 85
31.56 Andrew Holden 80	1:31.12 Aldo V Da Rosa 81	• 200 YD BUTTERFLY	10:02.53 Gene Crossett 85
32.73 Aldo V Da Rosa 81	1:31.54 Andrew Holden 80	3:32.97 ANTON CERER 97	10:49.28 Dave Malbrough 86
33.23 William Johnston 80	1:33.03 John Merrill 81	4:11.08 Paul Krup 81	12:55.36 Loyal Buckingham 85
33.33 Jim Eubank 82	1:35.35 Harry Liber 80	4:37.52 Jim Pendergrass 80	13:56.66 Boyd Campbell 89
35.27 Barnett Phillips 81	1:41.19 William Rowe 83	4:59.27 William Johnston 80	14:45.52 Bill M Reeder 88
35.75 C Edward Johnson 80	1:41.51 John White 81	5:04.43 E Don McCullough 83	17:23.38 Louis Rosenaur 85
35.87 William Rowe 83	1:47.35 Bill Eibl 81	8:23.41 Frank Scarano 80	• 1000 YD FREESTYLE
36.10 Lynn Surles 81	1:47.45 Richard Guido 81	• 100 YD INDIVIDUAL MEDLEY	18:18.29 GUS LANGNER 89
36.69 Harry Class 83	1:47.61 Harry Howell 81	1:26.77 ALDO DA ROSA 98	19:38.26 Dexter Woodford 85
37.75 Roy Morse 82	1:48.01 Robert Johnston 82	1:29.82 Aldo V Da Rosa 81	19:41.66 Woodrow Bowersock 85
• 100 YD FREESTYLE	• 200 YD BACKSTROKE	1:35.80 Paul Krup 81	20:14.74 Jim Triolo 85
1:11.98 ANDREW HOLDEN 99	3:12.35 EDWARD SHEA 95	1:39.36 Jim Pendergrass 80	21:07.37 Gene Crossett 85
1:11.98 Andrew Holden 80	3:16.52 Aldo V Da Rosa 81	1:47.03 Dick Guido 81	22:00.26 Dave Malbrough 86
1:15.24 Aldo V Da Rosa 81	3:24.47 John Merrill 81	1:47.15 William Johnston 80	28:10.74 Doc Schofield 85
1:17.40 Jim Eubank 82	3:31.24 Harry Liber 80	1:49.34 Russ Witte 82	33:03.43 Everett Cassell 85
1:22.17 Dick Guido 81	3:37.98 William Rowe 83	1:52.71 Harry Howell 81	• 1650 YD FREESTYLE
1:24.45 Barnett Phillips 81	3:47.63 John White 83	1:58.66 David Mulliken 80	31:02.36 GUS LANGNER 90
1:25.67 Lynn Surles 81	4:05.20 Jim S Triolo 84	2:01.93 E Don McCullough 83	34:30.95 Gene Crossett 85
1:27.59 William Johnston 80	4:09.07 Jim Pendergrass 80	2:16.83 Al Fisher 81	36:55.67 Woodrow Bowersock 85
1:28.45 Roy Morse 82	4:23.64 Al Fisher 81	• 200 YD INDIVIDUAL MEDLEY	37:03.22 Dave Malbrough 86
1:29.47 Robert Johnston 82	4:35.51 Frank Tillotson 84	3:16.31 ALDO DA ROSA 98	51:14.13 Bill M Reeder 88
1:30.34 Harry Class 83	4:40.00 William Patten 80	3:19.29 Aldo V Da Rosa 81	• 50 YD BACKSTROKE
• 200 YD FREESTYLE	• 50 YD BREASTSTROKE	3:40.98 Paul Krup 81	46.69 DAVE MALBROUGH 98
2:47.93 ALDO DA ROSA 98	41.30 ALDO DA ROSA 98	3:50.18 Dick Guido 81	48.82 Dave Malbrough 86
2:49.83 Aldo V Da Rosa 81	42.50 Paul Krup 81	4:15.11 William Johnston 80	51.76 Jim Triolo 85
2:54.31 Andrew Holden 80	42.57 Aldo V Da Rosa 81	4:38.16 E Don McCullough 83	51.85 Woodrow Bowersock 85
3:00.79 Dick Guido 81	46.58 Russ Witte 82	4:50.78 John Brook 81	1:01.95 Raymond Edelhoff 86
3:03.79 Jim Eubank 82	47.76 Barnett Phillips 81	5:26.18 Gil Spear 84	1:05.48 Loyal Buckingham 85
3:12.73 Jim Pendergrass 80	48.01 Murray Eager 82	• 400 YD INDIVIDUAL MEDLEY	1:12.81 Roy M Erlandson 85
3:16.77 Robert Johnston 82	51.63 William Johnston 80	7:03.09 ALDO DA ROSA 98	1:13.73 Roy Bodine 87
3:18.08 Barnett Phillips 81	51.97 Edwin Wolpaw 83	7:24.69 Aldo Da Rosa 81	1:15.90 Otto Hahn 85
3:23.56 Harry Bartlett 82	52.29 Jopaul Steiner 82	8:47.12 Jim Pendergrass 80	1:15.95 Bill M Reeder 88
3:26.99 David Mulliken 80	53.38 Harry Bartlett 82	9:07.49 William Johnston 80	1:16.63 Joseph L Trammell 85
3:28.03 Roy Morse 82	54.41 Bill Eibl 81	9:59.12 E Don McCullough 83	• 100 YD BACKSTROKE
• 500 YD FREESTYLE	• 100 YD BREASTSTROKE	13:05.12 Frank Scarano 80	1:46.68 DAVE MALBROUGH 98
7:37.20 ALDO DA ROSA 98	1:32.72 KELLEY LEMMON 92		1:50.57 Dave Malbrough 86
7:58.03 Aldo Da Rosa 81	1:36.40 Aldo Da Rosa 81	MEN 85-89	1:53.56 Jim Triolo 85
8:16.85 Dick Guido 81	1:37.99 Paul Krup 81	• 50 YD FREESTYLE	2:15.85 Raymond Edelhoff 86
8:30.24 Robert Johnston 82	1:48.27 Russ Witte 82	32.80 WOODROW BOWERSOCK 99	2:34.58 Boyd Campbell 89
8:34.80 Jim Eubank 82	1:54.81 Murray Eager 81	32.50 Woodrow Bowersock 85NV	2:38.28 Fred Walbolt 86
9:04.63 John Merrill 81	1:57.68 Robert Johnston 82	38.88 Gerson Sobel 88	2:39.47 Bill M Reeder 88
9:23.20 Harry Bartlett 82	2:01.30 Bill Eibl 81	40.57 Gene Crossett 85	2:52.60 Roy Bodine 87
9:35.19 John Woods 81	2:02.19 Harry Howell 81	46.37 Dexter Woodford 85	2:54.84 Otto Hahn 85
9:39.03 Lynn Surles 81	2:09.20 E Don McCullough 83	46.99 Dave Malbrough 86	2:55.07 Joseph L Trammell 85
10:01.27 Harry Class 83	2:13.45 David Mulliken 80	49.17 Loyal Buckingham 85	3:59.26 Ruben Berg 85
10:15.71 William Johnston 80	2:15.48 Sam Caravello 82	50.73 Fred Walbolt 86	• 200 YD BACKSTROKE
• 1000 YD FREESTYLE	• 200 YD BREASTSTROKE	51.92 Joseph L Trammell 85	3:57.82 CHARLES SALIE 97
16:04.32 ALDO DA ROSA 98	3:28.19 ALDO DA ROSA 98	53.64 Raymond Edelhoff 86	4:07.14 Jim Triolo 85
16:34.08 Aldo V Da Rosa 81	3:37.68 Aldo V Da Rosa 81	1:03.92 Boyd Campbell 89	4:20.18 Dave Malbrough 86
16:54.14 Dick Guido 81	3:42.58 Paul Krup 81	• 100 YD FREESTYLE	5:15.84 Roy M Erlandson 85
18:34.51 John Merrill 82	4:09.59 Jim Pendergrass 80	1:18.87 WOODROW BOWERSOCK 99	5:41.76 Bill M Reeder 88
19:13.58 Roy Morse 82	4:10.88 Murray Eager 82	1:18.87 Woodrow Bowersock 85	5:42.70 Roy Bodine 87
19:45.96 John Woods 81	4:13.97 Russ Witte 82		5:44.49 Fred Walbolt 86
20:46.52 Jim S Triolo 84			

1998-1999 SHORT-COURSE YARDS - TOP-TEN INDIVIDUALS

6:28.65 Everett Cassell	85	5:12.23 Jim Penfield	90
8:15.36 Ruben Berg	85	▪ 500 YD FREESTYLE	
10:01.82 Henry Steinbiss	86	10:20.59 GUS LANGNER	93
▪ 50 YD BREASTSTROKE		10:40.50 Gus Langner	94
51.48 WALTER PFEIFFER	99	▪ 1000 YD FREESTYLE	
51.48 Walter Pfeiffer	85	24:18.33 GUS LANGNER	95
59.10 Woodrow Bowersock	85	NO SWIMMERS	
1:06.09 Dave Malbrough	86	▪ 1650 YD FREESTYLE	
1:08.15 Jesse Coon	88	35:31.28 GUS LANGNER	93
1:08.65 Vincent McMahon	86	NO SWIMMERS	
1:09.33 Raymond Edelhoff	86	▪ 50 YD BACKSTROKE	
1:14.60 Larry Hart	87	55.26 JIM PENFIELD	98
1:14.70 Loyal Buckingham	85	1:25.88 Joe Kaufman	94
1:17.10 C J Hamilton	85	▪ 100 YD BACKSTROKE	
1:19.44 Everett Cassell	85	2:10.24 JIM PENFIELD	98
▪ 100 YD BREASTSTROKE		3:05.17 Joe Kaufman	94
1:57.82 WALTER PFEIFFER	99	▪ 200 YD BACKSTROKE	
1:57.82 Walter Pfeiffer	85	4:47.96 JOE KAUFMAN	96
2:35.64 Dexter Woodford	85	5:08.28 Jim Penfield	90
2:55.35 Larry Hart	87	▪ 50 YD BREASTSTROKE	
3:01.33 Raymond Edelhoff	86	57.65 JIM PENFIELD	98
3:21.24 Everett Cassell	85	1:18.52 Gus Langner	94
3:23.11 Roy Bodine	87	▪ 100 YD BREASTSTROKE	
3:25.52 Frank Starr	89	2:29.10 JIM PENFIELD	98
▪ 200 YD BREASTSTROKE		NO SWIMMERS	
4:23.79 WALTER PFEIFFER	99	▪ 200 YD BREASTSTROKE	
4:23.79 Walter Pfeiffer	85	6:00.90 ANDREW KALLUNKI	94
6:38.50 Larry Hart	87	6:22.86 Jim Penfield	90
6:49.11 Roy Bodine	87	▪ 50 YD BUTTERFLY	
6:58.45 Everett Cassell	85	1:10.64 JIM PENFIELD	99
▪ 50 YD BUTTERFLY		NO SWIMMERS	
49.32 JESSE COON	96	▪ 100 YD INDIVIDUAL MEDLEY	
51.45 Walter Pfeiffer	85	2:19.27 JIM PENFIELD	98
52.24 Woodrow Bowersock	85	NO SWIMMERS	
59.81 Jesse Coon	88	▪ 200 YD INDIVIDUAL MEDLEY	
1:45.94 C J Hamilton	85	6:05.72 PETER JURCZYK	96
▪ 100 YD BUTTERFLY		NO SWIMMERS	
2:02.95 WALTER PFEIFFER	99		
1:52.80 Walter Pfeiffer	85NV	MEN 95-99	
▪ 200 YD BUTTERFLY			
5:29.95 JESSE COON	95	▪ 50 YD FREESTYLE	
4:30.52 Walter Pfeiffer	85NV	51.31 GUS LANGNER	99
6:49.60 Jesse Coon	88	51.31 Gus Langner	95
▪ 100 YD INDIVIDUAL MEDLEY		▪ 100 YD FREESTYLE	
1:58.18 JESSE COON	97	2:04.54 GUS LANGNER	99
1:46.51 Walter Pfeiffer	85NV	2:03.95 Gus Langner	95NV
1:59.99 Woodrow Bowersock	85	▪ 200 YD FREESTYLE	
2:14.96 Jesse Coon	88	4:35.70 GUS LANGNER	99
3:07.22 Everett Cassell	85	4:34.65 Gus Langner	95NV
3:22.37 Roy Bodine	88	▪ 500 YD FREESTYLE	
3:25.41 Bill M Reeder	88	12:17.44 GUS LANGNER	99
▪ 200 YD INDIVIDUAL MEDLEY		12:17.44 Gus Langner	95
4:30.98 JESSE COON	97	▪ 50 YD BACKSTROKE	
4:00.48 Walter Pfeiffer	85NV	1:08.20 TOM LANE	89
5:15.26 Jesse Coon	88	1:26.73 Gus Langner	95
7:06.62 Roy Bodine	88	▪ 100 YD BACKSTROKE	
8:07.43 Bill M Reeder	88	3:05.81 TOM LANE	92
▪ 400 YD INDIVIDUAL MEDLEY		NO SWIMMERS	
8:45.11 WALTER PFEIFFER	99	▪ 50 YD BREASTSTROKE	
8:45.11 Walter Pfeiffer	85	1:27.55 GUS LANGNER	99
11:44.70 Jesse Coon	88	1:27.55 Gus Langner	95
13:57.30 Roy Bodine	87	▪ 100 YD BREASTSTROKE	
		3:04.31 GUS LANGNER	99
		3:04.31 Gus Langner	95
MEN 90-94			
▪ 50 YD FREESTYLE		MEN 100-104	
46.53 JOSEPH REINERS	92	▪ 50 YD FREESTYLE	
54.75 Gus Langner	94	1:31.03 TOM LANE	94
1:12.99 Joe Kaufman	94	NO SWIMMERS	
1:33.28 Harold Hoffmann	91	▪ 100 YD FREESTYLE	
▪ 100 YD FREESTYLE		3:21.86 TOM LANE	94
1:49.69 GUS LANGNER	95	NO SWIMMERS	
2:12.14 Gus Langner	94	▪ 200 YD FREESTYLE	
3:03.83 Joe Kaufman	94	6:56.32 TOM LANE	94
3:38.58 Harold Hoffmann	91	NO SWIMMERS	
▪ 200 YD FREESTYLE			
3:52.04 GUS LANGNER	93		
4:50.57 Gus Langner	94		

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

WOMEN'S RELAYS

200 YD FREE REL WOMEN 19+

HOLMES LUMBER 1:38.68 92

KIMBERLY BEATTIE
MARY ROEBUCK
LINDA NEARY
SUDI MILLER

MICH 1:45.42

Bonnie Karas 34
Kristen Nagelkirk 24
Ginnie Holloway 31
Ellen Lessig 24

NEM 1:45.72

Leslie Allen 23
S Stringfellow 23
Erin Powers 24
Corinne Murphy 25

SDSM 1:47.45

Sierra Snyder 22
Mary Monahan 32
Jeni Buys 30
Mary Ellen Anders 38

DYNA 1:48.05

Jennifer Whitney 25
Jill Hansen 24
Penny Noyes 44
Erin Shanahan 24

CRAWFISH AQUATI 1:49.71

Karlene Wise 45
Gina Cheuk 20
Leslie Stanley 37
Miah Broussard 22

DAM 1:49.72

Jennifer Lundmark 32
Robyn Jarmer 24
Jaimi Doan 28
Heather Kohler 25

WCM 1:50.40

Kathleen Hartnett 27
Kimberly Morgan 32
Wendy Lohse 19
Karen Duggan 28

DAM 1:51.16

Tracy Winsor 29
Kara Jordan 23
Jennifer Aguilar 35
Laney Deatsch 21

LJCC 1:51.51

Neily Mathias 30
Laura Galinson 36
Maria Salas 35
Cynthia Janssen 23

OREG 1:51.94

Lisa Gorsline 23
Michelle Donahue 31
F Gambetti 27
Karen Hakanson 33

200 YD FREE REL WOMEN 25+

LONE STAR 1:37.40 89

LISA JACKSON
BRIGITTE HEUER
L.MORRISON-CASEY
AMY PLESS

SLUG 1:38.43

D Graner-Gallas 35
Mary Edwards 26
Janet Harlow 30
Hannenian Kissel 28

SDSM 1:40.28

K Pipes-Neilsen 37
Teresa Derbes 27

Trish Miranda 30

Caroline Krattli 37

STAN 1:42.37

Katrina Radke 28
Kathryn Gelman 34
Aimee Lehr 31
Martie McKinney 34

RMM 1:44.12

Laureen Welting 33
Sarah Lee 32
Kimberly Geil 29
Cheryl Longfellow 29

GMKW 1:45.51

Jennifer Jones 30
Beth Gardner 33
Beth McGee 37
Liesa Benn 33

OREG 1:45.62

Karen Hakanson 33
Maureen Haslach 28
Elainejane Cole 36
Francesco Gambetti 26

SCSC 1:45.97

Laurel Hill 30
Allyson Wulff 31
E Buvik Jackson 35
Lisa Hazen 34

IM 1:46.42

Diane Marolda 28
Sue Epler 33
Brandy Toth 27
Solvei Sullivan 28

MVM 1:48.61

Lana M Rech 28
Julie Paque 41
Suzanne M Garrity 31
Julia C Davies 25

WPM 1:48.83

Jean Kellachan 27
Kate Hyland 30
Geneve Hendricks 30
Lynn Anderson 32

200 YD FREE REL WOMEN 35+

NEW ENGLAND 1:42.61 95

JENNIFER LUKER
JOEL FELDMANN
CONSTAN HALLETT
GAYLE WETTACH

WCM 1:42.65

Paula Roemer 38
Laurie Vidal 36
Wendy Ingraham 35
Penny Leach 36

OREG 1:45.00

Karen K Allen 35
Michelle Morrell 36
Barbara P Harris 39
Cynthia Chilcott 37

ARIZ 1:45.82

Huntley Cooney 38
Paula Pollard 35
Jonelle Schmidt 48
Liz Hobbs 37

RMM 1:46.38

Kim Crouch 37
Judy Nelson 38
Melanie Dullea 37
Kathy Garnier 38

CHIC 1:47.18

Leslie Ulen 41
Christin Lockhart 41
Lori S Symons 40
Jill Hernandez 38

NEM 1:47.47

Barb Handler 41
Constance Hallett 40

Beth Corwin 39

Jennifer Luker 42

SPM 1:48.13

Cathy Shonkwiler 38
Tricia Moses 39
Judy Tibma 42
Andrea Nauta 39

WCM 1:48.39

Lisa Ward 35
Mindy Hamway 40
Margee Curran 38
Charlene O'Brien 42

VIRGINIA MASTER 1:50.18

C Boxley 37
Susan Skiff 44
Wendy Weil 40
Beth Baker 38

IM 1:51.18

Patty Redig 39
Carol Peters 41
Andrea Block 37
Ann Davidsen 42

200 YD FREE REL WOMEN 45+

LOS ALTOS 1:53.98 94

ARLENE PROEBSTING
SUSAN ROY
KRISTINA KING
CAROLYN BOAK

PNA 1:56.36

Kathrine Casey 50
Sally A Dillon 52
Suzanne Dills 54
Debbie Glassman 45

LAM 1:56.63

Susan Roy 51
Kristina King 51
Cathy Schulbach 45
Carolyn Boak 54

NEM 2:00.95

Susan Ketchen 46
Constance Sasser 52
Claire O'Brien 60
Joel Feldmann 47

INDY SWIMFIT 2:03.18

Maryann Stevens 45
Susan Francis 46
Joan Diercks 51
Holly Lambert 45

MARY 2:03.36

Susan Marinsel 46
Marti Betz 49
Nancy Brown 63
Pam Wingerter 54

RMM 2:04.95

Mary Wohl Haan 45
Jean Wood 51
Susan Fouts 48
Carolyn Roche 48

WCM 2:07.53

Stephanie Scott 52
Karen Reilly 45
Martha Alexander 49
Bonnie Murphy 49

DC MASTERS 2:08.00

E Amesbury 48
Andrea Haines 51
K Bove-Bettis 46
Ann Lyttle 51

OREG 2:08.05

Monika Hunscher 50
Judy Beaston 48
Darlene Staley 49
Sandi Rousseau 51

ANCM 2:08.13

Myriam Pero 49
Margot Pettijohn 52

Kristine Pierce 47

Judy Lim-Sharpe 47

200 YD FREE REL WOMEN 55+

D.C. MASTERS 2:02.97 97

BARBARA FRID
JOANN LEILICH
BARBARA ZAREMSKI
JAYNE BRUNER

DC MASTERS 2:05.80

Barbara Frid 57
Jayne Bruner 64
Joann Leilich 60
Beth Schreiner 58

SDSM 2:07.76

Betsy Jordan 62
Jeanne Little 62
Lynne Lund 58
Jackie Marr 55

OREG 2:12.11

Joy Ward 56
Peggy S Whiter 55
Pamela Himstreet 55
Sue Calnek-Morris 56

TAM 2:12.67

Charlotte Jenkins 60
Nancy J Ridout 57
Glenda Carroll 55
Mary Gidley 62

OJAI-SANTA BARB 2:21.19

Tom Mitchell 66
John Johnston 56
Robert May 65
Boyd Ford 74

SPM 2:24.82

Jacquelyn Piper 62
Sandy Steer 59
Elaine Bromwich 56
Jayne Lambke 59

ARIZ 2:32.50

Edie Gruender 70
Carol Taylor 70
Helen Bayly 62
Nancy Mac Beth 70

DAM 2:38.32

Susan Munn 60
Roswita Norris 56
Mary Horton 56
Barbara Paulson 55

WCM 2:41.26

Midge Kraetzer 60
Joyce Haworth 61
Sally Morner 62
Barbara Jordan 61

IM 2:47.52

Mary Kurz 56
Henrietta Berning 65
Ann Stevens 65
Nancy Murphy 56

200 YD FREE REL WOMEN 65+

GOLD COAST 2:17.37 95

BLANCHE GRAVER
JUNE KRAUSER
MARGARE TIMMINS
CYNTHIA BRUCE

WCM 2:45.85

Elfriede Rogers 71
Donna Monroe 65
Joan Alexander 67
Ann Hirsch 68

MICH 3:09.97

Lois Kivi Nochman 74
Edith Glusac 80
Louise Kutscher 70
Teresa Diguiseppa 71

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

<p>SMMM 3:32.36 Ann Lambertson 68 M Knockenhauer 72 Gloria Stupfel 72 Zada Taft 79</p> <p>MARY 3:41.65 Betty Taylor 83 Catherin Williams 74 Sarah Allnutt 75 Marian Brennan 67</p> <p>200 YD FREE REL WOMEN 75+</p> <p>DC MASTERS 3:17.13 99 MINNA HAMNER RUTH THORSEN MIMI LEE ANNE WALKER</p> <p>DC MASTERS 3:17.13 Minna Hamner 76 Ruth Thorsen 78 Mimi Lee 79 Anne Walker 83</p> <p>WCM 3:27.23 Patricia Prevetz 78 Sally Joy 82 Jae Howell 76 Jean Durston 84</p> <p>200 YD MEDLEY R WOMEN 19+</p> <p>RALEIGH 1:52.20 92 COURTNEY SEARCY LISA BROWN SHELLIE JOANIS JILL BENDA</p> <p>SDSM 1:52.28 Sierra Snyder 22 Caroline Krattli 37 K Pipes-Neilsen 37 Teresa Derbes 27</p> <p>NEM 1:54.55 Corinne Murphy 25 Elizabeth Boehm 25 Stephanie Wriede 29 Leslie Allen 23</p> <p>U SAN FRANCISCO 1:55.44 Amy Lanigan 25 Nicola Cleff 23 Michelle Collins 22 Becky Fenson 31</p> <p>RMM 1:58.70 Amber Storch 24 Sarah Lee 32 Cheryl Longfellow 29 Lauren Welting 33</p> <p>NEM 2:00.52 Elizabeth Zehr 24 Trina Young 22 Neville Barry 23 Diana Hall 28</p> <p>STANFORD M 2:01.29 Martie McKinney 34 Leah Jack 25 Laura Lederer 24 Aimee Lehr 31</p> <p>DAM 2:02.52 Jaimi Doan 28 Jennifer Lundmark 32 Heather Kohler 25 Robyn Jarmer 24</p> <p>MICH 2:03.00 Ellen Lessig 24 Ginnie Holloway 31 Kristen Nagelkirk 24 Bonnie Karas 34</p> <p>FAIRFAX COUNTY 2:03.47 Kim M Williams 24</p>	<p>Kathy Waggoner 31 Tami A Carlow 31 Klaya Aardahl 19</p> <p>DYNA 2:04.36 Jennifer Whitney 25 Penny Noyes 44 Barbara Capes 40 Erin Shanahan 24</p> <p>200 YD MEDLEY R WOMEN 25+</p> <p>SLUG 1:47.70 99 MARY EDWARDS JANET HARLOW HEIDI KISSEL D GRANER-GALLAS</p> <p>SLUG 1:47.70 Mary Edwards 26 Janet Harlow 30 Hannenian Kissel 28 D Graner-Gallas 35</p> <p>STAN 1:51.47 Aimee Lehr 31 Kathryn Gelman 34 Martie McKinney 34 Katrina Radke 28</p> <p>OREG 1:55.29 Michelle Donahue 31 Maureen Haslach 28 F Gambetti 27 Karen Hakanson 33</p> <p>U SAN FRANCISCO 1:56.29 Monique Petrov 29 Kendra Thayer 26 Pamela Frankli 29 Dianne Gleaso 26</p> <p>WCM 1:56.78 Kathleen Hartnett 27 Karen Duggan 28 Margee Curran 38 Michelle Ghiggeri 30</p> <p>ARIZ 1:57.60 Teri Lhost 33 Jill J Chasson 29 Dianne Wygal 33 Jennifer Jones 32</p> <p>SDSM 1:57.65 Michele N Dixon 29 Jeni Buys 30 Mary Monahan 32 Trish Miranda 30</p> <p>IM 1:58.60 Ann Davidsen 42 Kersten Annegers 30 Andrea Block 37 Patty Redig 39</p> <p>SCSC 1:58.94 E Buvik Jackson 35 Laurel Hill 30 Allyson Wulff 31 Lisa Hazen 34</p> <p>COLONIALS 1776 1:59.02 Vibeke Swanson 37 Jerri Freimuth 34 Laurie Hug 34 Susan Hartman 36</p> <p>200 YD MEDLEY R WOMEN 35+</p> <p>WALNUT CREEK 1:56.99 96 PATTY LANDERS DIANE HEINSON CAREN MONAMARA PAULA ROEMER</p> <p>WCM 1:57.01 Lisa Ward 35 Laurie Vidal 36 Charlene O'Brien 42</p>	<p>Paula Roemer 38 ARIZ 1:59.50 Liz Hobbs 37 Paula Pollard 35 Jonelle Schmidt 48 Huntley Cooney 38</p> <p>OREG 2:00.60 Cynthia Chilcott 37 Michelle Morrell 36 Barbara P Harris 39 Karen K Allen 35</p> <p>CHIC 2:00.68 Leslie Ulen 41 Jill Hernandez 38 Lori S Symons 40 Christin Lockhart 41</p> <p>NEM 2:00.80 Beth Corwin 39 Leslie Cooper 39 Jennifer Luker 42 Barb Handler 41</p> <p>VIRGINIA MASTER 2:01.06 L Hasselquist 41 C Boxley 37 Sheri Vaughn 36 Beth Baker 38</p> <p>RMM 2:01.11 Wendy Rice 36 Kim Crouch 37 Judy Nelson 38 Kathy Garnier 38</p> <p>WCM 2:01.77 Penny Leach 36 Colleen Hazlett 36 Olivia Moore 39 Wendy Ingraham 35</p> <p>SPM 2:03.05 Judy Tibma 42 Maud Orlando 36 Cathy Shonkwiler 38 Andrea Nauta 39</p> <p>U SAN FRANCISCO 2:04.56 Dea Frederick 36 Cathy Huang 44 Cory Mackie 35 Susan Vonwinckler 38</p> <p>200 YD MEDLEY R WOMEN 45+</p> <p>COLONIALS 1776 2:09.99 95 CECELIA MCCLOSKEY J.GREYLIICK-BYRON STEPHANIE WALSH C.SCHROEDER</p> <p>PNA 2:12.66 Kathrine Casey 50 Sally A Dillon 52 Debbie Glassman 45 Suzanne Dills 54</p> <p>LAM 2:15.84 Kristina King 51 Cathy Schulbach 45 Carolyn Boak 54 Susan Roy 51</p> <p>MARY 2:16.97 Marti Betz 49 Connie Lindsey 47 Susan Marinzal 46 Pam Wingerter 54</p> <p>NEM 2:21.13 Susan Ketchen 46 Constance Sasser 52 Joel Feldmann 47 Claire O'Brien 60</p> <p>DC MASTERS 2:21.96 Andrea Haines 51 Ann Lyttle 51 Denise Kirwan 47</p>	<p>Ruth Bennett 52 WCM 2:26.44 Martha Alexander 49 Stephanie Scott 52 Karen Reilly 45 Bonnie Murphy 49</p> <p>SDSM 2:26.91 Susan Weston 48 Mary Gregoria 46 Diane Hirakawa 50 Allison Price 47</p> <p>RMM 2:27.26 Jean Wood 51 Susan Fouts 48 Mary Wohl Haan 45 Carolyn Roche 48</p> <p>MARYLAND 2:28.79 Marti Betz 49 P Wingerter 54 Sally Cliff 53 B Johnson 47</p> <p>VIRGINIA MASTER 2:29.33 Betsy Durrant 57 Nancy Miller 49 Terry Gault 48 Laura Walker 61</p> <p>200 YD MEDLEY R WOMEN 55+</p> <p>D.C.MASTERS 2:19.50 97 BARBARA FRID JOANN LEILICH JAYNE BRUNER BARBARA ZAREMSKI</p> <p>DC MASTERS 2:22.15 Barbara Frid 57 Joann Leilich 60 Jayne Bruner 64 Beth Schreiner 58</p> <p>SDSM 2:25.07 Betsy Jordan 62 Jackie Marr 55 Lynne Lund 58 Jeanne Little 62</p> <p>TAM 2:31.18 Rebecca Herrero 56 Glenda Carroll 55 Nancy J Ridout 57 Charlotte Jenkins 60</p> <p>OREG 2:31.86 Peggy S Whiter 55 Pamela Himstreet 55 Joy Ward 56 Sue Calnek-Morris 56</p> <p>ARIZ 2:45.81 Nancy Mac Beth 70 Carol Taylor 70 Helen Bayly 62 Edie Gruender 70</p> <p>SPM 2:47.92 Elaine Bromwich 56 Jacquelyn Piper 62 Jayne Lambke 59 Sandy Steer 59</p> <p>NORTH CAROLINA 2:49.48 Ceil Blackwell 58 Dawn Stroupe 60 Alice Jones 60 Sally Newell 61</p> <p>WCM 2:49.96 Barbara Jordan 61 Joyce Haworth 61 Midge Kraetzer 60 Sally Morner 62</p> <p>DAM 2:55.34 Roswita Norris 56 Barbara Paulson 55 Susan Munn 60</p>
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1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

Mary Horton	56	JANET HAUER		K Jarecki	33	Diane Hughes	37
MARYLAND MASTER	3:09.89	BRENDA WICKLUND		Jerri Freimuth	34	Connie Hallett	39
Jill Coleman	68	U SAN FRANCISCO	3:50.88	DC MASTERS	4:04.92	OREG	4:47.23
Joan Libby	57	Amy Lanigan	25	Teresa Allen	26	Liz Cheney	42
Frances Weston	59	Nicola Clegg	23	Amy Demasi	36	D Lamear-Tucker	41
Barbara Wandel	55	Michelle Collins	22	Cheryl Bruner	39	Robin Young	44
		Becky Fenson	31	Rose Rice	25	Laura Worden	41
200 YD MEDLEY R WOMEN 65+		NEM	3:57.47	IM	4:08.98	SAN RAMON	5:11.47
		Leslie Allen	23	Becky Heller	34	Susan Staman	46
GOLD COAST	2:41.79 95	Robin Hewitt	29	Diane Marolda	28	Sally McGreary	47
BLANCHE GRAUER		Stephanie Wriede	29	Sandra Lehr	28	Terri Drain	37
CYNTHIA BRUCE		Joan Reilly	44	Solvei Sullivan	28	Susan Miller	42
JUNE KRAUSER		WALNUT CREEK	3:58.02	GREAT COLUMBUS	4:09.52		
MARGARET TIMMONS		Wendy Lohse	19	Robin Klestinec	37	400 YD FREE REL WOMEN 45+	
WCM	3:08.28	Lisa Ward	34	Caren MacLean	28	DC MASTERS	4:21.71 93
Elfriede Rogers	71	Olivia Moore	39	Angie Shook	28	RUTH BENNETT	
Ann Hirsch	68	Kathleen Hartnett	27	Beth Birnbrich	34	BARBARA FRID	
Joan Alexander	67	SAN MATEO MARL	4:06.11	SANTA CRUZ M	4:09.76	ANN SVANSON	
Donna Monroe	65	Danielle Ogier	46	Kathryn Vatsula	40	ANN LYTTLE	
MICH	3:35.09	Andrea Goodman	23	Sue Brause	42	INDY SWIMFIT	4:22.58
Edith Glusac	80	Tina Jamieson	31	Erin Gustafson	29	Maryann Stevens	45
Teresa Diguisseppe	71	Wendy Fung	21	Maureen Chalmer	33	Joan Diercks	51
Lois Kivi Nochman	74	NEM	4:06.84	U SAN FRANCISCO	4:12.11	Sharon Wise	52
Louise Kutscher	70	Barb Handler	41	Maya Nasution	25	Susan Francis	46
OJAI-SANTA BARB	4:03.22	Laurel Bernini	22	Karen Roberson	27	WALNUT CREEK	4:48.86
Ruth Farnham	69	Lynn Kelley	27	Nancy McIlvaine	31	Regina Brittingha	46
Malchia Olshan	68	Jacki Hirsty	46	Julia Hey	29	Marty Alexande	49
Grace Altus	75	MOUNTAIN VIEW	4:11.60	NORTH CAROLINA	4:12.70	Bonnie Murph	49
Jennie Taylor	81	Katie Liu	24	Heather Hageman	28	Lori Boettle	52
MARY	4:09.34	Debra Topp	29	Beverly Amick	44	U SAN FRANCISCO	4:56.29
Betty Taylor	83	Lynn Roberts	30	Michelle Groce	38	Susan Allen	54
Marian Brennan	67	Suzanne Garrity	31	Rachel Gunn	28	Mary Saal	45
Catherin Williams	74	EMBARCADERO Y	4:18.54			Olga Burlyga	46
Sarah Allnutt	75	Erika Bischoff	33	400 YD FREE REL WOMEN 35+		Nancy Cutler	45
SMMM	4:10.18	Kristie Rolke	29	WALNUT CREEK	3:47.02 99	NORTH CAROLINA	4:59.32
Zada Taft	79	Maureen Foley	22	CAREN MCNAMARA		Sandra Cathey	49
Gloria Stupfel	72	Annette Chinn	37	PAULA ROEMER		Ingrid Friersers	45
Ann Lambertson	68	DELAWARE	4:18.84	PENNY LEACH		Jeannie Mitchell	52
M Knockenhauer	72	Vicki Ashworth	25	LAURIE VIDAL		Mary Sansbury	45
NORTH CAROLINA	4:51.37	Alexis Colelb	24	WALNUT CREEK	3:47.02	DC MASTERS	5:02.43
Margaret Hagerty	75	Bridget Hoppe	20	Caren McNamara	38	K Bove-Bettis	46
Daisy Trivette	72	C Killian	26	Paula Roemer	37	Ruth Bennett	52
Betty Billings	73	STRAWBERRY CANY	4:20.10	Penny Leach	36	Andrea Haines	51
Lynne Goble	76	Hanna Kim	21	Laurie Vidal	36	E Amesbury	48
MICH	5:04.96	Alison Hilgers	21	U SAN FRANCISCO	3:59.26	VIRGINIA MASTER	5:04.62
Joyce Schulman	66	Serena Kwan	19	Dea Frederick	36	Nancy Miller	49
Jewel Cooke	90	Helen Salcedo	23	Cory Mackie	35	Betsy Durrant	47
Mary Williams	67	IM	4:24.68	Laurie Chesler	35	R Schanzer	46
Ann Harrity	66	Francine Neumann	22	Susan Vonwinckle	38	Terry Gault	48
		Maura Hagestad	24	VIRGINIA MASTER	4:06.42	MARYLAND MASTER	5:13.07
200 YD MEDLEY R WOMEN 75+		Cindy Schaum	31	Beth Baker	38	Joan Libby	57
		Sue Epler	33	Susan Skiff	44	Nancy Brown	63
WALNUT CREEK	3:47.25 93			Sheri Vaughn	36	Sally Iliff	53
FRIEDA SIDORSKY		400 YD FREE REL WOMEN 25+		C Boxley	37	P Wingerter	54
SALLY JOY		WALNUT CREEK	3:37.75 91	MARYLAND MASTER	4:08.53	COLONIALS 1776	5:23.87
MARY JAN REEVES		CAREN LEWIS		K Branch	41	J Jastremski	51
JEAN DURSTON		PAULA KOGNER		Denise Priddy	36	P Timmins	45
DC MASTERS	3:47.69	WENDY INGRAHM		Jill Springer	40	Joan Sparks	46
Anne Walker	83	SARA SHAND		Gladney McKay	38	Judy Michel	52
Minna Hammer	76	WALNUT CREEK	3:48.99	MENLO PARK	4:25.16	IM	6:12.82
Mimi Lee	79	Anne Oberg	27	Jane Burks	41	Pat Brummet	53
Ruth Thorsen	78	Michelle Ghiggeri	30	Judith Schwartz	44	Jill Crane	50
WALNUT CREEK	3:50.42	Karen Duggan	28	Judy Strauss	44	Benita Cervantes	53
Pat Prevetz	77	Kathleen Harnet	27	Lorie Ausserer	41	Carol Taggart	49
Sally Joy	81	U SAN FRANCISCO	3:50.26	MENLO PARK	4:33.18	U SAN FRANCISCO	6:16.73
Jae Howell	76	Pamela Franklin	29	Ginny Langmuir	46	Jan Brewer	49
Jean Durston	84	Monique Petrou	29	Rebecca Pinto	44	Martha Campbell	50
SAN MATEO MARL	5:21.28	Dianne Gleason	33	Katherine Bass	46	Laureen Chaitki	54
Audrey Etienne	81	Kendra Thaye	26	Elspeth Farmer	41	Erin Pashelinsk	51
Hilda Buel	84	EMP	3:58.60	WALNUT CREEK	4:35.97		
Zada Taft	79	Janet Harris	33	Kim Fox Voder	42	400 YD FREE REL WOMEN 55+	
Margo Lenigk	88	Julie Walsh	32	B J Henry	35	DC MASTERS	4:42.36 97
		Stephanie Dorsey	28	Debra Simmons	42	JAYNE BRUNER	
400 YD FREE REL WOMEN 19+		Kristin Gary	31	Karen Boyer	42	JOANN LEILICH	
U OF SAN FRAN	3:46.29 93	COLONIALS 1776	4:03.89	NEM	4:42.69	BARBARA FRID	
JENNY TOTON		Laurie Hug	34	Laura Cooper	40	BARBARA ZAREMSKI	
CYNTHIA HINSHAW		Dawn Carlson	26	Sally Fellows	43		

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

<p>DC MASTERS 4:57.11 Barbara Frid 57 Jayne Bruner 64 Joann Leilich 60 Beth Schreiner 58</p> <p>MARY 5:54.61 Joan Libby 57 Frances Weston 58 Jill Coleman 68 Nancy Brown 62</p> <p>WIS MASTERS 6:17.51 Ingrid Stine 59 Judy Davis 63 Betty Lorenzi 71 Doris Klitzke 63</p> <p>WALNUT CREEK 6:25.42 Elfriede Rogers 71 Joyce Haworth 60 Sally Morner 62 Midge Kraetzer 60</p> <p>FMM 6:28.42 Margie Hutinger 59 Doris Prokopi 63 Patricia Bond 61 Jean Troy 71</p> <p>OJAI-SANTA BARB 6:39.71 Grace Altus 75 Kitty Johnston 56 Ruth Farnham 69 Malchia Olshan 68</p> <p>U SAN FRANCISCO 6:50.42 Tanako Hagiwara 60 Ila Chale 61 Carol Requadt 61 Margaret Passanis 55</p> <p>U SAN FRANCISCO 7:51.94 Deborah Keeve 63 Mary Allen 66 Sarah Devis 75 Margar Veorhees 70</p> <p>400 YD FREE REL WOMEN 65+</p> <p>SANTA BARBARA 5:32.88 89 SHIRLEY ERICKSON GRACE ALTUS RUTH BAAR DOROTHY LA CHASSE</p> <p>CONN 6:39.78 Ruth Morrill 76 Suzanne Graham 73 Ronnie Kamphausen 65 Dorothy Donnelly 77</p> <p>WIS MASTERS 7:06.97 Janet Moldenhauer 68 Fran Zeumer 79 Betty Lorenzi 71 S Hasselbacher 72</p> <p>400 YD FREE REL WOMEN 75+</p> <p>D.C. MASTERS 7:24.14 94 NANCY CLARK MARY LATHRAM JEAN CHENAUX ANNE WALKER</p> <p>WALNUT CREEK 7:51.78 Pat Prevetz 77 Jean Durston 84 Sally Joy 81 Jae Howell 81</p> <p>DC MASTERS 8:17.49 Mary Lathram 83 Ruth Thorsen 78 Mimi Lee 79 Anne Walker 83</p> <p>SAN MATEO MARL 10:15.29 Audrey Etienne 81</p>	<p>Hilda Buel 84 Zada Taft 79 Margot Lenigk 88</p> <p>400 YD MEDLEY R WOMEN 19+</p> <p>U OF SAN FRAN 4:06.73 94 KATIE WELCH JENNY TOLON PAM FRANKLIN CYNTHIA HINSHAW</p> <p>NEM 4:38.91 Rebeca Kupcinskas 25 Erin Powers 24 Jessie Toland 30 Jennifer Gold 29</p> <p>STRAWBERRY CANY 4:44.79 Helen Salcedo 21 Serena Kwan 19 Alison Hegers 21 Hanna Kim 23</p> <p>GERMANTOWN MAST 4:45.27 Jennifer Stowe 24 Amy Cooley 42 Eunice Ching 28 Lesley Evans 43</p> <p>SAN MATEO MARL 4:45.59 Wendy Fung 21 Andrea Goodman 23 Tina Jamieson 31 Lane Poms 33</p> <p>GREAT COLUMBUS 4:51.44 Erin Joyce 22 Emily Butler 22 Lori Boyle 23 Paula Konfal 23</p> <p>LA MESA MASTERS 5:09.35 Kelly Shipley 31 Shawna Dail 23 Joanne Steinauer 36 Wendy Alcock 28</p> <p>DELAWARE 5:10.89 Deborah Cain 42 Bridget Hoppe 20 Alexis Colelb 24 Kay Deakyne 44</p> <p>MILLS MASTERS 5:13.69 Michelle Co 28 Rachel Lair 22 Susan VanSchook 32 Sarah Hamby 19</p> <p>IM 5:22.29 Doreen Lemke 35 Tina Neubeck 30 Monica Kane 45 Roslyn Marshall 23</p> <p>400 YD MEDLEY R WOMEN 25+</p> <p>ILLINOIS 4:02.90 99 JIE LI KERSTEN ANNEGERS JENNIFER RIDGE M DAVID-ADAMS</p> <p>IM 4:02.90 Jie X Li 26 Kersten Annegers 30 Jennifer L Ridge 30 M David-Adams 29</p> <p>NEM 4:11.82 Corinne Murphy 25 Liz Boehm 25 Stephanie Wriede 29 Melissa Braisted 26</p> <p>NORTH CAROLINA 4:12.12 Sian Hunter 32 Pamela Lindroos 33 Patricia Hogan 29</p>	<p>Angelique Geiss 34 NORTH CAROLINA 4:25.82 Michelle Duval 29 Silica Larkin 26 Margie Springer 38 Sue Haugh 37</p> <p>WALNUT CREEK 4:26.66 Kathleen Hartnett 27 Karen Dugan 28 Lisa Ward 34 B J Henry 35</p> <p>COLONIALS 1776 4:35.86 Vibeke Swanson 37 Jerri Freimuth 34 K Jarecki 33 S Rothenberger 35</p> <p>NEM 4:42.31 Sharon Theriot 33 Linda Carstens 46 Melissa Patterson 40 Kirsten Elstner 34</p> <p>VIRGINIA MASTER 4:43.66 R Schanzer 56 Victoria Wells 39 Alice Phillips 33 Sheri Vaughn 36</p> <p>IM 4:56.11 Sandra Lehr 28 Cindy Schaub 31 Diane Marolda 28 Sue Epler 33</p> <p>LA MESA MASTERS 4:59.00 Pamela Rabin 28 Kelly Shipley 31 Joanne Steinauer 36 Wendy Alcock 28</p> <p>400 YD MEDLEY R WOMEN 35+</p> <p>STANFORD 4:21.26 96 KIM CARLISLE EILEEN WALL MEG LLOYD NANCY LEWIS</p> <p>VIRGINIA MASTER 4:26.96 Beth Baker 38 Charlotte Boxley 37 Wendy Weil 40 Susan Skiff 44</p> <p>WALNUT CREEK 4:31.07 Penny Leach 35 Kim Yoder 42 Charlene O'Brien 42 Lauri Vidal 36</p> <p>MARYLAND MASTER 4:41.17 K Branch 41 Teresa Hill 36 Jill Springer 40 Barbara Protzman 44</p> <p>WALNUT CREEK 4:53.80 Patty Landers 42 Mary Jo Ferris 37 Olivia Moore 39 Debra Simmons 39</p> <p>SPM 4:54.38 Lisa Flanagan 36 Maud Orlando 36 Kim Stott 40 Judy Tibma 42</p> <p>GREAT COLUMBUS 5:18.71 Robin Klestinec 37 Mag Bowen 40 Pam Beck 41 Laura Wright 40</p> <p>OJAI-SANTA BARB 5:23.27 June Sears 41 Barbara Wood 41 Michelle Bailey 35</p>	<p>Deirdre Shoemaker 35 SAN MATEO MARL 5:26.66 Danielle Ogier 46 Heidi Hagler 40 Sue Free 36 L Larson-Prior 48</p> <p>NEM 5:32.88 Sally Fellows 43 Terri Moyer 37 Laura Cooper 40 Connie Hallett 39</p> <p>MARYLAND MASTER 5:52.74 Carla Mazyck 38 Nielsen-Paton 38 L Leichter 37 Ellen Hays 40</p> <p>400 YD MEDLEY R WOMEN 45+</p> <p>COLONIALS 1776 4:57.56 97 CECILIA MCCLOSKEY J GREULICK-BYRON STEPHANE WALSH C SCHROEDER</p> <p>INDY SWIMFIT 5:05.54 Maryann Stevens 45 Susan Francis 46 Sharon Wise 52 Joan Diercks 51</p> <p>WALNUT CREEK 5:35.79 Marty Alexander 49 Stephanie Scott 51 Regin Brittingham 46 Cathy Aaron 50</p> <p>COLONIALS 1776 6:18.69 J Jastremski 51 Joan Sparks 46 P Timmins 45 Judy Michel 52</p> <p>NEM 7:32.51 Alice Seidel 57 Barbara Boley 74 Jae Kane 50 Ann Fredette 54</p> <p>EL CERRITO 8:07.92 Nadine Tang 48 Evelyn Zavala 70 Phoebe Howard 50 Pat Pothier 72</p> <p>400 YD MEDLEY R WOMEN 55+</p> <p>DC MASTERS 5:14.80 97 BARBARA FRID JOANN LEILICH JAYNE BRUNER BARBARA ZAREMSKI</p> <p>MARY 6:42.06 Joan Libby 57 Jill Coleman 68 Frances Weston 58 Nancy Brown 62</p> <p>WIS MASTERS 7:00.46 Betty Lorenzi 71 Ingrid Stine 60 Doris Klitzke 63 Judy Davis 63</p> <p>WALNUT CREEK 7:01.55 Midge Kraetzer 60 Joyce Haworth 60 Donna Monroe 65 Suzanne Perilma 60</p> <p>OJAI-SANTA BARB 7:42.55 Ruth Farnham 69 Kitty Johnston 56 Grace Altus 75 Malchia Olshan 68</p>
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1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

400 YD MEDLEY R WOMEN 65+	Frances Mantak 32	ANN LYTTLE	INDY SWIMFIT 1:28.18
WALNUT CREEK 6:38.80 98	Kelly Strickland 33	DC MASTERS 9:54.07	Steve Hartsock 25
ELFRIEDE ROGERS	Gillian Langton 31	Denise Kirwan 47	Grant Comer 24
ANN HIRSCH	COLONIALS 1776 9:13.75	Ann Lyttle 51	Ben Christoffel 24
JOAN ALEXANDER	Jerri Freimuth 34	Andrea Haines 51	Adam Dawkins 23
PAT WHEATON	Dawn Carlson 26	Ruth Bennett 52	WCM 1:29.45
CONN MASTERS 6:39.78	S Rothenberger 35	VIRGINIA MASTER 10:35.90	Tim Evans 19
Dot Donnelly 77	K Jarecki 33	Nancy Miller 49	Trentin Krauss 22
Ruth Morrill 75	IM 9:28.97	R Schanzer 56	Harry Ein 20
Suzanne Graham 72	Becky Heller 34	Betsy Durrant 57	Matt Barry 19
Ronnie Kamphausen 65	Sandra Lehr 28	Terry Gault 48	SCAQ 1:29.78
WALNUT CREEK 7:11.74	Diane Marolda 28	COLONIALS 1776 11:49.51	Osiris Briseno 23
Betty McMillan 70	Cindy Schaub 31	Joan Sparks 46	Dan Wegner 27
Dixie Germoulous 70	CRESCENT HILL 9:32.77	Judy Michel 52	Ealing Jahn 23
Ann Hirsch 68	Michelle Ward 30	P Timmins 45	Matthew D Monos 29
Betty Barabas 70	Margaret Phillips 25	J Jastremski 51	MICH 1:30.38
SAN MATEO MARL 10:19.61	K Beckovich 31		Jens B Milobinski 24
Audrey Etienne 81	Ronda Feltzer 25	800 YD FREE REL WOMEN 55+	Jason B Pierce 22
Hilda Buel 84	VENICE BEACH CI 11:11.62	DC MASTERS 10:38.43 97	Jack B Methric 23
Gloria Stuptel 71	Margaret Pantonin 30	JAYNE BRUNER	Matt B Dahl 30
Ann Lembealgon 68	Emine Sarikaya 25	JOANN LEILICH	OREG 1:31.96
	Corby Arthur 40	BARBARA ZAREMSKI	Kevin Silverston 24
	C Smits Van Oyen 28	BARBARA FRID	Mark Rankin 32
400 YD MEDLEY R WOMEN 75+	GREAT COLUMBUS 11:53.63	DC MASTERS 11:06.76	Bill Zolna 29
WALNUT CREEK 8:44.42 98	Jennifer Glaser 28	Barbara Frid 57	Jeff Walker 38
PAT PREVETZ	Lori Ann Huff 34	Jayne Bruner 64	WCM 1:32.07
SALLY JOY	Donna Bush 42	Joann Leilich 60	Peter Krebbeers 21
JEAN DURSTON	Barbara Airulla 31	Beth Schreiner 58	Nate Moore 21
MARY JANE REEVES	MARLIN MASTERS 12:13.94	MARY 12:29.30	Chris Mack 23
WALNUT CREEK 8:46.84	Carol Braun 39	Joan Libby 57	Jeremy Connaly 19
Pat Prevetz 78	W Marie Hagan 26	Frances Weston 59	DAM 1:32.70
Sally Joy 82	Kelly Duncan 37	Jill Coleman 68	Tom Aiello 27
Jae Howell 78	Cherri Mullins 45	Nancy Brown 62	Jeremy Vander Kam 24
Jean Durston 84	800 YD FREE REL WOMEN 35+	WIS MASTERS 13:44.32	Max Hanson 31
	LAKESIDE 8:38.48 96	Ingrid Stine 60	Tyler Woods 22
	MELINDA SCHMITT	Judy Davis 63	RMM 1:32.77
	MARY CHRIS CURT	Carol Smollen 55	Aaron Mc Cormick 24
	AMY POPE	Doris Klitzke 63	John D Doebbeling 29
	PAM MARTIN	HEARTLAND SWIM 14:13.91	Paul Mc Cormick 52
	NEM 11:06.17	M R Valderhaug 57	Mike Gonzales 32
	Linda Isner 44	Marilyn A Ramey 58	ARIZ 1:32.94
	Pam O'Neill 48	Nancy Reed 71	Eduardo Piccinini 26
	Debbie Levens 45	Elfriede Lehto 65	Francisco Suro 28
	Linda Carstens 46	800 YD FREE REL WOMEN 65+	Bradley Cahoon 43
	GREAT COLUMBUS 11:11.94	SANTA BARBARA 12:14.80 89	Edward Goldstein 24
	Laura Wright 40	SHIRLEY ERICKSON	200 YD FREE REL MEN 25+
	Mandy Shumaker 43	GRACE ALTUS	HOUSTONIAN CLUB 1:23.34 90
	Diane Roller 37	RUTH BAAR	JOHN SMITH
	Cheryl Roller 44	DOROTHY LA CHASSE	JEFF FREY
	NEM 11:38.77	NO RELAYS	CLAY BRITT
	Sandy Woodcock 42		SAM SEIPLE
	Ann Fredette 54	800 YD FREE REL WOMEN 75+	STAN 1:26.49
	Polly Davie 44	WALNUT CREEK 16:43.17 98	Joshua M Woodruff 28
	Laura Cooper 40	JAE HOWELL	Shannon Lo 27
	OJAI-SANTA BARB 11:39.74	SALLY JOY	Steve M Johnson 29
	Michelle Bailey 35	MARY JANE REEVES	Carr Phillips 33
	Barbara Wood 41	JEAN DURSTON	MONTG ANCIENT M 1:26.74
	Kitty Johnston 56	NO RELAYS	Michael Fell 37
	June Sears 41		Wally Dicks 36
	MARYLAND MASTER 11:42.94	MEN'S RELAYS	Jeffrey Roddin 29
	L Leichter 37		Dale McElhattan 37
	Deborah Dudas 41	200 YD FREE REL MEN 19+	SLUG 1:27.38
	Diane Blubauth 42	TEXAS SWIMMING 1:24.72 95	Bert Bergen 32
	Patty Devanny 40	JEFF THIBAUT	Marcel Rinzler 28
	LA MESA MASTERS 12:15.97	DEAN PUTTERMAN	James Bergen 31
	Maria O'Connell 51	REED DUNNE	Derek Robinson 29
	Jane Monaghan 43	ROBERT KILLEEN	TOC 1:27.54
	Rosemary Hutzley 44		John H Keppeler 32
	Margie Balaney 40	MICH 1:24.78	Anthony Mosse 34
	800 YD FREE REL WOMEN 45+	Raffi Karapetian 24	Robert Childs 29
	DC MASTERS 9:42.96 93	Sean Peters 27	Greg Larson 29
	RUTH BENNETT	James Collins 24	GARDEN STATE MA 1:27.99
	BARBARA FRID	Mark Gole 22	Curtis Sawin 27
	ANN SVANSON		Scott Yeomans 35
			Ed Tsuzuki 40
			Billy Barr 35

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

<p>SNM 1:28.22 Andrew Bohlman 28 Brant C Allen 36 Nenad Rodic 28 Chip L Hobson 31</p> <p>WCM 1:29.43 Stephen Stahl 34 Jeffrey Rodgers 32 Roque Santos 31 Patrick Duggan 35</p> <p>NEM 1:29.90 Stuart Cromarty 35 Jonathan Banville 28 Rob Berry 31 Mark S Goldman 27</p> <p>SWFS 1:30.22 Jarret Winter 30 Henry Wise 31 Todd Sells 32 Matthew Mitchell 31</p> <p>OSB 1:30.26 Mike Shaffer 33 Scott W Reed 28 Bill A Kuhn 33 Brian Alderman 30</p> <p>200 YD FREE REL MEN 35+</p> <p>LONE STAR 1:25.72 90 JAMES MONTGOMERY RICHARD HESS TRIP HEDRICK DAVID HAGUE</p> <p>IM 1:27.85 Ted Soltys 38 Tom McCabe 41 Dave Gibson 38 Thomas Redig 37</p> <p>SCSC 1:29.94 Cameron D Reid 38 Bob Jackson 42 Michael Moore 35 Franz Mortensen 35</p> <p>WCM 1:30.70 John W Baker 36 Greg Remmert 36 Gary L Patterson 39 Vernon Rogers 38</p> <p>MICH 1:31.49 Mike Schmitz 40 Mike Schuldinger 37 Mark Hesskamp 39 Michael Green 35</p> <p>ARIZ 1:31.73 John Piecuch 43 Tim A Taylor 37 Scott Shake 41 Peter Nunan 41</p> <p>ART 1:33.05 Alex Bailey 38 Brian Dohner 36 Sean Fitzgerald 35 Mark Kaiser 35</p> <p>TBAC 1:33.24 Lane Hudson 38 Brian Starford 35 Michael Scott 41 Larry Buckley 38</p> <p>STAN 1:33.46 Randy R Cox 36 Steven L Atkins 36 Spencer C Eldred 42 Kevin P Heller 38</p> <p>MVM 1:33.86 Kirk E Kozlowski 41 Jeff Bergman 41 Evan S Collins 36 Mark T Sulger 41</p>	<p>WCM 1:34.12 Brad Gothberg 37 Charles M Daniels 42 Glenn J Hoxie 40 Joseph Tack 41</p> <p>200 YD FREE REL MEN 45+</p> <p>OLYMPIC CLUB 1:31.98 97 ROBERT STRAND TIM BIRNIE CHARLES YOURD STEVE CLARK</p> <p>SLUG 1:32.82 Robert Whitley 49 John Templin 45 Boo Graner-Gallas 51 Mark Rubke 46</p> <p>TOC 1:33.78 James Griffith 46 John Osterloh 50 Robert Strand 53 Bill Barthold 50</p> <p>WCM 1:36.87 Cary Kent 47 James De Lacy 52 Steven Haufler 46 Mal Jester 50</p> <p>SNM 1:37.84 Steven P Lintz 48 Don W Mckenzie 52 Frans D Nelson 56 Clifford Johnson 47</p> <p>MICH 1:37.93 Chuck Olson 49 Richard Chaney 48 Steve Hansen 47 Leonard Brockhahn 48</p> <p>SANR 1:40.15 Stephen Small 46 Douglas L Ryerson 45 John Crane 47 Michael Williams 49</p> <p>WCM 1:40.84 Gene Hart 46 Donald Walker 50 David Ahlman 47 Jesse Smyers 52</p> <p>ROCK 1:41.12 Brent Johnson 47 Jim Scott 53 John Lindley 52 David Tanaglia 47</p> <p>OREG 1:41.50 George Thayer 63 Robert Bruce 51 Tom Landis 56 Michael Tennant 45</p> <p>WIS MASTERS 1:42.74 Mike Daley 49 Eric Ehrke 47 Roger Dickson 47 Peter Toumanoff 48</p> <p>200 YD FREE REL MEN 55+</p> <p>OLYMPIC CLUB 1:37.31 98 JAMES ELDER CHARLES RAVEN ED CAZALETT JAMES KRUEGER</p> <p>TOC 1:41.29 James Krueger 60 Charles Raven 60 Lewis Cook 61 Stephen Clark 55</p> <p>OREG 1:41.66 George Thayer 63</p>	<p>Tom Landis 57 Richard Weick 65 Robert S Smith 55</p> <p>SDSM 1:44.64 Mike Freshly 58 Steve Moseley 61 Bill Earley 62 Robert R Williams 56</p> <p>GOST 1:47.93 Yoshi Oyakawa 65 Karl Wiedemann 60 Joseph Lammert 59 Walter Lincoln 65</p> <p>TAM 1:48.10 Richard - Burns 55 Ed Cazalet 56 Ben Wright 56 David S Kirchhoff 57</p> <p>WCM 1:48.79 Jack Lance 56 Bill Brown 55 Emory Haworth 63 Jeffrey Mc Creary 55</p> <p>NEM 1:51.77 Thomas Manfredi 56 Charles Savoie 58 Eric Bennett 60 Matt Chrostowski 57</p> <p>SWIM 1:53.07 Dren Geer 65 Alan Woodruff 56 Bruce Hutchinson 65 Bill Keenan 55</p> <p>MNLO 1:53.08 Richard Bennett 68 John F Sulzbach 65 Carl Mortensen 55 Murray Mc Lachlan 58</p> <p>GOLD 1:55.11 Cav Cavanaugh 63 Alan Rapperport 65 Vincent Gallo 55 William Dolan 70</p> <p>200 YD FREE REL MEN 65+</p> <p>SAN DIEGO 1:52.53 96 DONALD BAKER JIM JONES WILLIAM PHILLIPS KENNETH KIMBALL</p> <p>WCM 1:59.94 Donald Brown 65 Robert Kahl 65 Robert Mayo 65 Frank Nieman 66</p> <p>SDSM 2:00.81 Donald Hubbard 71 Jordan Wolle 70 William Phillips 71 Donald Baker 68</p> <p>OSB 2:02.26 Tom Mitchell 66 Frank Piemme 74 Ed Farrell 66 Jurgen Schmidt 76</p> <p>SMMM 2:09.96 Don Stupfel 71 Robert Cunningham 71 Norman Stupfel 66 Roger C Campbell 68</p> <p>TOC 2:11.02 Ralph Perry 72 Philip Chapman 68 Frank Grannis 74 Donald P Hill 67</p> <p>SPM 2:11.18 Thomas Smith 71</p>	<p>Charles Kohnken 67 Mike Torsney 68 Harold Ferris 68</p> <p>MESC 2:11.82 George Erswell 72 Peter Packard 66 Arnie Green 67 Hap Hazzard 67</p> <p>MARYLAND MASTER 2:12.88 Yu-Jin Lee 65 Lou McComas 67 Ken Pollock 66 Thomas Powers 67</p> <p>ARIZ 2:13.14 Ronald Johnson 67 Art Kelley 73 Dan Gruender 69 Dale Webster 73</p> <p>FMM 2:21.74 Elmer Luke 72 Robert Williams 71 Alan Maloney 70 Robert MacDonald 70</p> <p>200 YD FREE REL MEN 75+</p> <p>OREGON 2:14.12 98 EARL WALTER GERALD HUESTIS GILBERT YOUNG ANDREW HOLDEN</p> <p>OREG 2:14.70 Earl Walter 77 Gerald Huestis 79 Gilbert Young 77 Andrew Holden 80</p> <p>OJAI-SANTA BARB 4:22.06 John Melville 79 Jerry Clark 86 Clark Webster 83 Vito Portanova 78</p> <p>200 YD MEDLEY R MEN 19+</p> <p>TEXAS SWIMMING 1:33.18 95 JEFF THIBAUT DEAN PUTTERMAN MICHAEL DUNNE ROBERT KILLEEN</p> <p>MICH 1:35.75 Mark Gole 22 James Collins 24 Sean Peters 27 Raffi Karapetian 24</p> <p>OSB 1:37.05 Scott W Reed 28 Michael L Garrett 24 Brian Alderman 30 Mike Shaffer 33</p> <p>INDY SWIMFIT 1:39.03 Steve Hartsock 25 Grant Comer 24 Ben Christoffel 24 Adam Dawkins 23</p> <p>MICH 1:40.39 Jack A Methric 23 Jens A Milobinski 24 Jason A Pierce 22 Matt A Dahl 30</p> <p>SCAQ 1:41.13 Dan Wegner 27 Matthew D Monos 29 Osiris Briseno 23 Ealing Jahn 23</p> <p>RMM 1:42.89 Mike Gonzales 32 John D Doebbeling 29 Paul Mc Cormick 52</p>
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1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

Aaron Mc Cormick	24	Paul Widman	26	Clifford Johnson	47	Richard Bennett	68
WCM	1:43.15			Don W Mckenzie	52	Carl Mortensen	55
Peter Krebbeers	21	200 YD MEDLEY R	MEN 35+	Steven P Lintz	48	John F Sulzbach	65
Justin Smyers	23			Frans D Nelson	56	Murray Mc Lachlan	58
Chris Mack	23	BAYLOR/LSTAR	1:36.23 99	WCM	1:48.34	RMM	2:07.64
Jeremy Connaly	19	JAY YARID		Gene Hart	46	Fred Wendelken	60
WCM	1:44.11	DAVID GUTHRIE		Mal Jester	50	Bob Patten	64
Nate Moore	21	BOBBY PATTEN		James De Lacy	52	Dennis O'Brien	63
David R Stoddard	34	GLENN HENRY		Cary Kent	47	James Graham	57
Trentin Krauss	22	BLS	1:36.23	USF	1:49.37	MARYLAND MASTER	2:08.46
Joseph Tack	41	Jay Yarid	36	Duke Dahlin	50	Keith Harries	60
UIUC	1:45.55	David Guthrie	38	Richard E Atondo	49	Peter Oroszlan	55
Shunsuke Okubo	24	Bobby Patten	36	Brad Pence	47	Yu-Jin Lee	65
Andrew Walberer	27	Glenn Henry	38	Richard S Garrett	45	Bob Johnston	62
Peter Juiris	25	IM	1:38.25	IM	1:50.72	SWIM	2:14.08
Ryan Ebens	23	Dave Gibson	38	John Fitzgerald	50	Dren Geer	65
ARIZ	1:45.58	Bob McAdam	36	Ekkehar Schoettle	46	Alan Woodruff	56
Eduardo Piccinini	26	Thomas Redig	37	Phil Dodson	46	Bill Keenan	55
Norman D Brisker	34	Tom McCabe	41	Larry Kaplan	47	Bruce Hutchinson	65
Edward Goldstein	24	WCM	1:40.17	SRM	1:52.60	200 YD MEDLEY R	MEN 65+
Francisco Suro	28	Patrick Duggan	35	Don Foreaker	46	S. CAL AQUATIC	2:09.02 93
200 YD MEDLEY R	MEN 25+	Gary L Patterson	39	Tom Riley	47	BOYD JOHNSON	
LONE STAR	1:31.54 91	Kerry O'Brein	42	Kenneth Knox	46	DONALD HESTER	
MOOK RHODENBAUGH		Vernon Rogers	38	Mark A Stanley	48	FRANK PIEMME	
GREG RHODENBAUGH		RMM	1:40.30	SANR	1:52.86	JURGEN SCHMIDT	
BOBBY PATTEN		James E Lilley	39	John Crane	47	WCM	2:15.22
TRIP HEDRICK		David S Gray	40	Douglas L Ryerson	45	Robert Mayo	65
TOC	1:35.57	Richard Hess	44	Michael Williams	49	Frank Nieman	66
Anthony Mosse	34	Ed Stehlin	43	Stephen Small	46	Donald Brown	65
Greg Larson	29	SCSC	1:41.36	MICH	1:53.70	Robert Kahl	65
Gavin Holles	32	Bob Jackson	42	Richard Chaney	48	OSB	2:24.23
John H Keppeler	32	John Bitter	35	Steve Hansen	47	Frank Piemme	74
MONTG ANCIENT M	1:35.91	Cameron D Reid	38	Leonard Brockhahn	48	Ed Farrell	66
Clay Britt	38	Franz Mortensen	35	Chuck Olson	49	Tom Mitchell	66
Wally Dicks	36	ARIZ	1:44.03	WCM	1:55.15	Jurgen Schmidt	76
Jeffrey Roddin	30	Scott Shake	41	David Ahlman	47	TOC	2:29.79
Timothy Boyd	28	Tim A Taylor	37	Jesse Smyers	52	Ralph Perry	72
SLUG	1:36.08	John Piecuch	43	Steven Haufler	46	Philip Chapman	68
Derek Robinson	29	Peter Nunan	41	Ken Burr	54	Frank Grannis	74
John Harlow	30	TBAC	1:45.51	200 YD MEDLEY R	MEN 55+	Donald P Hill	67
Marcel Rinzler	28	Lane Hudson	38	OLYMPIC CLUB	1:53.89 98	SMMM	2:30.68
Marcel Rinzler	28	Brian Starford	35	ED CAZALET		Don Stupfel	71
Bert Bergen	32	Larry Buckley	38	JAMES KRUEGER		Robert Cunningham	71
GARDEN STATE MA	1:38.64	Michael Scott	41	JAMES ELDER		Norman Stupfel	66
Curtis Sawin	27	SRM	1:46.43	CHARLES RAVEN		Roger C Campbell	68
Benn Doyle	40	Vincent Morales	42	TOC	1:55.09	MESC	2:35.43
Billy Barr	35	Douglas Stiling	41	Lewis Cook	61	George Erswell	72
Ed Tsuzuki	40	John Morales	41	James Krueger	60	Peter Packard	66
WCM	1:38.74	Harry S North	40	Stephen Clark	55	Arnie Green	67
Joe D Madigan	26	STAN	1:46.65	Charles Raven	60	Hap Hazzard	67
Roque Santos	31	Randy R Cox	36	OREG	1:56.89	SPM	2:37.26
Jeffrey Rodgers	32	Spencer C Eldred	42	Robert S Smith	55	Charles Kohnken	67
Stephen Stahl	34	Steven L Atkins	36	George Thayer	63	Mike Torsney	68
NEM	1:38.98	Kevin P Heller	38	Tom Landis	57	Thomas Smith	71
Rob Berry	31	U SAN FRANCISCO	1:47.26	Richard Weick	65	Harold Ferris	68
Jonathan Banville	28	Ham Homan	39	TAMALPAIS	1:58.68	GOLD	2:39.52
Mark S Goldman	27	Jack Ewing	38	Rich Burns	55	Alan Rapperport	65
Stuart Cromarty	35	Chris Waters	35	Roland Crotts	56	Murray Eager	82
IM	1:39.33	Tim Harvey	44	Ed Cazalet	56	Loring Holmes	69
Greg Gooch	27	200 YD MEDLEY R	MEN 45+	Ben Wright	56	William Dolan	70
James Ralph	26	THE OLYMPIC CLB	1:42.48 97	LAM	1:58.78	COLONIALS 1776	2:40.37
Ted Soltys	38	TIM BIRNIE		Laurance Hill	60	T Flynn	70
Thomas J McCabe	41	ROBERT STRAND		Thomas Boak	55	Norman Garsoe	75
U SAN FRANCISCO	1:39.89	CHARLES YOURD		Keefe Lodwig	55	Roger Franks	72
Matthew Cerrito	30	STEPHEN CLARK		James Duley	60	John Emanuel	74
Bruce Crock	25	TOC	1:43.31	GOST	1:59.02	WIS MASTERS	2:41.61
Oleg Litvinov	32	Tim Birnie	53	Yoshi Oyakawa	65	Gordon Schalla	72
Andrew Geller	30	Robert Strand	53	Karl Wiedamann	60	John Bauman	68
SNM	1:40.23	James Griffith	46	Joseph Lammert	59	Alex MacGillis	70
Andrew Bohlman	28	Bill Barthold	50	Walter Lincoln	65	Harlan Drake	70
David W Vidimos	38	SLUG	1:43.95	WALNUT CREEK	2:02.98	U SAN FRANCISCO	2:42.32
Nenad Rodic	28	Mark Rubke	46	Don Brown	65	William Grohe	66
Chip L Hobson	31	John Templin	45	Jim Perilman	60	Kurt Hensch	69
CRESCENT HILL	1:40.78	Boo Graner-Gallas	51	Emory Haworth	62	Daniel Osborne	65
Chris McCabe	26	Robert Whitley	49	Jeff McCreary	55	Barry Galvin	66
Eric Fors	28	SNM	1:47.02	MNLO	2:06.07		
Norman Schippert	35						

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

<p>200 YD MEDLEY R MEN 75+</p> <hr/> <p>OREGON 2:36.73 99</p> <p>EARL WALTER GERALD HUESTIS ANDREW HOLDEN GILBERT YOUNG</p> <p>OREG 2:36.73</p> <p>Earl Walter 77 Gerald Huestis 79 Andrew Holden 79 Gilbert Young 76</p> <p>SAN MATEO MARL 3:43.15</p> <p>Joe Kaufman 94 Robert Schulze 75 Ray Taft 79 Fred High 77</p> <p>400 YD FREE REL MEN 19+</p> <hr/> <p>GRIN 3:13.73 99</p> <p>BEN CHRISTOFFEL ADAM DAWKINS TER TANSINSIN GRANT COMER</p> <p>GRIN 3:13.73</p> <p>Adam Dawkins 23 Grant Comer 24 Ter Tansinsin 26 Ben Christoffel 23</p> <p>U SAN FRANCISCO 3:23.85</p> <p>Mike McKeon 29 Oleg Litvinov 32 Kent Palmer 26 Marsic Scott 23</p> <p>MINN 3:33.17</p> <p>Jeffrey Shea 35 Thaddeu Ingersoll 29 Michael Thrasher 36 Michael Steineman 24</p> <p>UIUC 3:33.70</p> <p>James Solberg 23 Ryan Ebans 23 Shunsuke Okieibo 23 Peter Juris 24</p> <p>WALNUT CREEK 3:36.85</p> <p>Kevin Raab 20 Steve Stahl 34 Dave Stoddard 34 Gary Pattersend 37</p> <p>STRAWBERRY CANY 3:38.65</p> <p>Adam Madokoro 21 Hayward Kong 25 James Grey 34 Lee Wanie 24</p> <p>GERMANTOWN MAST 3:45.54</p> <p>Mark Walters 46 Jorge Silva 22 Daniel Blitz 32 Steve Phillips 22</p> <p>NEM 3:45.55</p> <p>Peter Couto 24 Matt Connery 35 Mike Hogan 43 Jeff Callas 38</p> <p>IM 3:46.91</p> <p>Patrick Meenan 23 Chris Alcott 23 Karl Steinke 24 Brian Mulhern 24</p> <p>GREAT COLUMBUS 3:48.42</p> <p>Tony Phillips 26 James Swain 34 Eric Davis 27 Stephen Riegler 23</p> <p>400 YD FREE REL MEN 25+</p> <hr/>	<p>ANCM 3:13.88 99</p> <p>MICHAEL FELL WALLY DICKS JEFFREY RODDIN DALE MCELHATTAN</p> <p>MONTG ANCIENT M 3:13.88</p> <p>Michael Fell 37 Wally Dicks 36 Jeffrey Roddin 29 Dale McElhattan 37</p> <p>STANFORD M 3:16.55</p> <p>Shannon Lo 27 Josh Woodruff 27 Steve Johnson 28 Carr Phillips 33</p> <p>U SAN FRANCISCO 3:18.23</p> <p>Andrew Geller 30 Steven Sakadales 26 John Monnich 31 Matthew Ceriz 30</p> <p>MENLO PARK 3:25.45</p> <p>Dave Kane 27 Darius Paczuski 32 John Moore 34 Ed Owen 27</p> <p>WALNUT CREEK 3:29.20</p> <p>Brian Stahl 31 Dave Stoddard 33 Joe Madigan 25 Steve Stahl 34</p> <p>U SAN FRANCISCO 3:31.20</p> <p>Victor Castill 34 Stephen Smit 32 James Kuggier 25 Thorsten Anderson 32</p> <p>SAN RAMON 3:32.34</p> <p>Jim Wheeler 39 Erik Manor 27 Ken Fattlar 42 Bob Snodgrass 36</p> <p>NEM 3:32.85</p> <p>Mark Goldman 27 Jonathan Banville 28 Rob Berry 30 Henry Baker 31</p> <p>DAVIS AQUATICS 3:33.03</p> <p>Tom McNamara 36 Hammer Gharavi 30 Ted Krovetz 32 Andy McPherson 52</p> <p>GARDEN STATE MA 3:33.49</p> <p>Doug Clark 30 Steve Silbauth 32 C McGiffin 33 Scott Yeomans 35</p> <p>400 YD FREE REL MEN 35+</p> <hr/> <p>ILLINOIS 3:16.15 97</p> <p>TOM MCCABE TOM REDIG TED SOLTYS ANDY SEIBT</p> <p>IM 3:17.61</p> <p>Andreas Seibt 40 Tom McCabe 41 Thomas Redig 37 Ted Soltys 38</p> <p>WALNUT CREEK 3:24.79</p> <p>John Ring 40 John Baker 36 Kerry O'Brien 42 Pat Duggan 35</p> <p>COLONIALS 1776 3:27.35</p> <p>Thomas Meade 41 Ronald Marks 40 Stephen Rode 41 Gregory Oxley 40</p>	<p>NEM 3:35.22</p> <p>Doug Bosley 36 Kevin Stapleton 36 Larry Richardson 39 Peter Worland 41</p> <p>MESC 3:38.13</p> <p>Kevin Riley 41 Ritchie Palmer 42 Peter Farragher 39 Andrew Thomas 41</p> <p>NEM 3:40.39</p> <p>Kym Berman 39 Tom Mack 40 Warren Wise 43 Edmund Gendreau 36</p> <p>SANTA CRUZ 3:41.94</p> <p>John Parker 36 Gary Krage 43 Joel Wilson 50 Don Bacci 46</p> <p>NORTH CAROLINA 3:42.68</p> <p>John Denison 35 Phillip Alexander 37 Brian Huey 39 Jeff Smith 35</p> <p>STANFORD M 3:44.61</p> <p>Randy Cox 36 Bill Rosenberg 41 Tim Mulcahy 44 Steve Fuselier 39</p> <p>STRAWBERRY CANY 3:45.25</p> <p>E Pieters-Kwier 36 Chuck Schmit 41 Paul Enore 35 Ralph Elde 46</p> <p>400 YD FREE REL MEN 45+</p> <hr/> <p>OLYMPIC CLUB 3:28.95 97</p> <p>BOB STRAND TIM BIRNIE CHARLES YOURD STEVE CLARK</p> <p>U SAN FRANCISCO 3:42.31</p> <p>Brad Pence 47 Steve Mundschau 45 Richard Atondo 49 Richard Garrett 45</p> <p>WALNUT CREEK 3:43.18</p> <p>Dave Alh 47 Gene Hart 46 Steve Haufler 46 Mal Jester 49</p> <p>SAN RAMON 3:45.49</p> <p>Allan Cartwright 57 Mike Williams 49 Steve Small 46 Kevin O'Brien 45</p> <p>SAN MATEO MARL 3:57.65</p> <p>Dennis Frank 49 Don Galine 53 Dick Peterson 61 Gary Brenner 51</p> <p>WALNUT CREEK 4:02.60</p> <p>Ken Burr 54 Jim Delacy 52 Mike Piazza 53 Chris Stewart 47</p> <p>NORTH CAROLINA 4:08.54</p> <p>David Castle 51 William Brophy 56 James Davis 54 Bob List 53</p> <p>MANATEE MASTERS 4:08.65</p> <p>Steve Caziarc 49 Alan Levinson 47 Grant Inman 47 Gary Fitschen 53</p>	<p>IM 4:09.45</p> <p>Mark Anderson 45 Tom Carr 45 Ekkehard Shoettle 46 John Fitzgerald 51</p> <p>NEM 4:10.93</p> <p>Albert Valliere 52 Mark Formica 51 Frank Mc Quiggan 50 Homer Lane 49</p> <p>COLONIALS 1776 4:11.28</p> <p>Mark Lefevre 45 Ronald Kane 46 Jack Kirlin 60 James Kremzier 53</p> <p>400 YD FREE REL MEN 55+</p> <hr/> <p>GRIN 4:03.06 95</p> <p>DAVID COSTILL MEL GOLDSTEIN FRAN MCAREE JERRY MYERS</p> <p>TAMALPAIS M 4:04.36</p> <p>Ed Cazalet 56 Ben Wright 56 Roland Crofts 55 Rich Burns 55</p> <p>WALNUT CREEK 4:17.06</p> <p>Emory Haworth 62 Jim Perilman 60 Jeff McCreary 55 Don Brown 65</p> <p>VIRGINIA MASTER 4:32.01</p> <p>R Cheadle 61 Chuck Wilmore 64 E Gaulrapp 56 Jack Schiltz 56</p> <p>MARYLAND MASTER 4:38.43</p> <p>Don Rice 65 Bill Conroy 55 Philip Kerr 64 John Harding 56</p> <p>IM 4:42.39</p> <p>Steve Mullins 66 Peter Jackson 58 Amos Coffman 58 Richard Hanley 63</p> <p>U SAN FRANCISCO 4:42.45</p> <p>Joe Illicko 64 Obert Fewster 60 Jack Fleming 63 Chris Saunder 60</p> <p>NEM 4:44.93</p> <p>Matt Chrostowski 57 Douglas Shearer 58 Charles Savoie 58 Thomas Manfredi 56</p> <p>WALNUT CREEK 4:54.14</p> <p>Bob Mayo 65 Frank Neiman 66 Harold Boscovich 56 Neil Stratton 56</p> <p>400 YD FREE REL MEN 65+</p> <hr/> <p>ILLINOIS 4:25.55 98</p> <p>JOHN MASTERS STEVE MULLINS FRED LEHMAN WAYNE LEENGRAN</p> <p>WALNUT CREEK 4:32.66</p> <p>Don Brown 65 Frank Heiman 66 Bob Mayo 65 Bob Kahl 65</p> <p>U SAN FRANCISCO 5:06.74</p> <p>William Grom 66</p>
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1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

Richard Schoumbur	72	Tommy Ortega	31	GARDEN STATE MA	3:48.57	OJAI-SANTA BARB	4:57.79
Garvin Barr	66	Clint White	36	Billy Barr	35	Scott Wilson	47
Daniel Osborn	65	IM	4:28.06	Benn Doyle	40	Reed Harding	46
WIS MASTERS	5:32.52	Doug Hano	32	C Bogusky	40	Rick Goeden	52
John Bauman	68	Gary Griswold	31	Scott Yeomans	35	Dan O'Meara	52
Robert Kueny	67	Patrick Meenan	23	WALNUT CREEK	3:58.19	GREAT COLUMBUS	5:03.05
Bill Payne	69	Brian Mulhern	24	Chris Stewart	47	Larry Ringer	51
Tom Michelson	67	400 YD MEDLEY R	MEN 25+	Pat Duggan	35	Tim Konfal	51
OJAI-SANTA BARB	5:33.34	ANCM	3:28.46 98	Kerry O'Brien	41	Brad Woelfel	49
Ed Farrell	66	CLAY BRITT		John Baker	35	Robert Joyce	50
Tom Mitchell	66	WALLY DICKS		MESC	4:00.78	SAN MATEO MARL	5:04.21
Boyd Ford	74	JEFFREY RODDIN		Andrew Thomas	41	Don Galine	52
Robert May	65	MICHAEL FELL		Jim Goodman	46	Dick Peterson	61
ST. LOUIS M	5:49.88	MONTG ANCIENT M	3:32.80	Ritchie Palmer	42	Dennis Frank	49
Donald Sery	74	Michael Fell	37	Kevin Riley	41	Ross Shoemaker	56
Bill Cannon	68	Wally Dicks	36	COLONIALS 1776	4:03.70	NEM	5:14.69
Jerry Gallagher	70	Jeffrey Roddin	29	William Draves	37	Homer Lane	49
Robert Blake	74	Dale McElhattan	37	Mark Lefevre	45	David Prior	54
GMKW	5:54.62	WALNUT CREEK	3:39.71	Robert Mullin	41	Frank Mc Quiggan	50
Jack Mitchell	72	Joe Madigan	25	Gregory Oxley	40	Mark Formica	51
Lawrence Gallaher	73	Dave Stoddard	33	NEM	4:11.43	GRIN	5:22.58
Irwin Stolz	69	Brian Stahl	31	Curt Whittaker	38	Greg Baker	46
Elmer Schnitzer	70	Steve Stahl	34	James Bledsoe	35	Bill Roach	49
COLONIALS 1776	6:13.94	NEM	3:57.04	Andre Bronte	45	Dick Sidner	50
T Flynn	70	Tim Liesching	32	Brian Ray	45	Doug Church	55
William Marino	71	Henry Baker	31	NEM	4:15.21	400 YD MEDLEY R	MEN 55+
John Emanuel	74	Stuart Cromarty	34	Edmund Gendreau	36	OREGON	4:26.46 99
Edward Bitner	76	Mark Goldman	27	Michael Bailey	36	ROBERT SMITH	
SAN MATEO MARL	6:42.81	IM	4:00.33	Kym Berman	39	GEORGE THAYER	
Don Stupitel	70	Scott Runkle	31	Warren Wise	43	BERT PETERSEN	
Fred Hick	77	David Ackerman	33	STRAWBERRY CANY	4:16.98	TOM LANDIS	
Gus Schwartz	73	Brian Cunningham	26	E Pieters-Kwier	36	OREG	4:26.46
Ray Taft	79	Tom Long	30	Chuck Schmit	41	Robert Smith	55
U SAN FRANCISCO	7:14.14	COLONIALS 1776	4:12.54	SAN RAMON	4:18.18	George Thayer	63
Fred Rogers	76	John Pierson	28	Ken Fattlar	42	Bert Petersen	60
Kurt Mensch	69	Steve Kelly	41	Ron Emhuff	43	Tom Landis	56
Victor De Kalb	73	Andrew Ellis	30	Bob Snodgrass	36	INDY SWIMFIT	4:39.90
James Frankel	73	D Whitehead	33	Jim Wheeler	39	George Quigley	58
400 YD FREE REL	MEN 75+	MONTG ANCIENT M	4:13.27	IM	4:21.07	Mel Goldstein	60
OREGON	5:10.57 98	Thomas Denes	41	Peter Alexander	40	Dave Costill	63
EARL WALTER		G Schaefer	25	John Craffey	41	Jerry Myers	60
GERALD HUESTIS		Nate Gordon	29	Michael Lilleeng	47	VIRGINIA MASTER	4:56.62
GILBERT YOUNG		David Harmon	49	Richard Harwood	40	Chuck Wilmore	64
ANDREW HOLDEN		GRIN	4:15.34	400 YD MEDLEY R	MEN 45+	E Gaulrapp	56
NO RELAYS		Grant Sindelar	26	OLYMPIC CLUB	3:59.11 96	Jack Schiltz	56
400 YD MEDLEY R	MEN 19+	Jeff Hill	25	TOD SPIEKER		Alec Thomson	55
U OF SAN FRAN	3:34.08 92	Ward Bracken	25	BOB STRAND		MARYLAND MASTER	5:02.50
GARY YANG		Jay Church	28	JIM ELDER		James Forsythe	61
JOHN HARLOW		STRAWBERRY CANY	4:20.45	STEVE CLARK		Bob Johnston	62
MARK FLORITO		Jason Rubio	27	WALNUT CREEK	4:17.61	Don Rice	65
GREG MACKEM		Jeremy Southgate	30	Gene Hart	46	John Harding	56
NORTH CAROLINA	3:51.00	Rick Borey	28	Don Walker	50	NEM	5:12.63
Chris Sevic	24	Alexander Ziegler	29	Mal Jester	49	Charles Savoie	58
Justin Fansler	19	DELAWARE	4:25.16	Cary Kent	49	Eric Bennett	60
Bruckner Chase	32	C Colburn	27	SAN RAMON	4:23.00	Thomas Manfredi	56
John Hurt	28	S Wasserman	29	Kevin O'Brien	45	Matt Chrostowski	57
GERMANTOWN MAST	4:00.86	Brad Killina	30	Steve Small	46	WALNUT CREEK	5:19.00
William Bare	24	Bill Wolfe	38	Allan Cartwright	57	Jeff McCreary	55
Steve Phillips	22	WIS MASTERS	4:25.91	Mike Williams	49	Neil Stratton	56
Daniel Blitz	32	Joseph Mueller	33	MARYLAND MASTER	4:38.21	Emory Haworth	56
John Folk	39	Jerry Lourigan	33	R Phillips	53	Harold Boscovic	56
GRIN	4:07.42	Chris Beyer	34	Jack Iliff	54	400 YD MEDLEY R	MEN 65+
Josh Skube	23	Travis Lukens	27	Jim Oconnor	45	ST PETE	5:03.76 96
Bill Hauschild	30	400 YD MEDLEY R	MEN 35+	John Dillinger	49	PAUL HUTINGER	
Dan Bachrach	26	ILLINOIS	3:38.76 99	MICH	4:38.59	ROBERT MACDONALD	
Jonathan Purvis	22	ANDREAS SEIBT		Richard Chaney	48	MIKE TORSNEY	
NEM	4:08.15	BOB MCADAM		Steve Hansen	47	THOMAS SMITH	
Joe Wotton	39	DAVE GIBSON		Lawrence Kimball	48	SPM	5:54.81
S Vankuilenburg	34	TOM REDIG		Leonard Brockhahn	48	Charles Kohnken	67
Scott Bendig	24	IM	3:38.76	IM	4:40.50	Thomas Smith	71
Chris Spinney	39	Andreas Seibt	40	John Fitzgerald	50	Mike Torsney	68
EL CERRITO	4:19.16	Bob McAdam	36	Andy Zoltners	53	Harold Ferris	68
Raymond Lam	20	Dave Gibson	38	Phil Dodson	45	MARYLAND MASTER	5:59.92
Stephen Dunkle	36	Thomas Redig	37	Peter Jackson	58	Ken Pollock	66

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

Bill Rodgers	66	Dale Mercker	32	Keith Krueger	42	Robert Smith	56
Yu-Jin Lee	65	Doug Montanus	27	Eric Jernberg	40	Tom Mitchell	66
Thomas Powers	67	John Gleason	39	Rob Meyer	43	John Johnston	56
WIS MASTERS	6:08.57	Russell Williams	39	C Ehlenbach	37	Reed Harding	46
W Morgan Byers	71	GREAT COLUMBUS	8:11.01	SOUTH WEST MAST	8:41.65	800 YD FREE REL	MEN 55+
John Bauman	68	Chris Birnbrich	35	Stephen Peck	42	GRIN	9:12.24 95
Robert Kueny	68	Scott Powell	26	David Strybel	44	DAVID COSTILL	
Tom Michelson	67	Jim Callahan	41	Greg Nelson	39	MEL GOLDSTEIN	
WIS MASTERS	6:26.59	Eric Nilsen	27	Lance Keene	40	FRAN MCAREE	
Gordon Schalla	72	IM	8:41.55	NEM	8:52.07	JERRY MYERS	
Wesley Mayer	66	Brian Cunningham	26	Matt Connery	35	SAN DIEGO SWIM	10:56.73
Alex MacGillis	70	Ed Deegan	27	Jeff Callas	38	Bill Earley	62
Lynn Surles	81	Doug Hano	32	Mike Hogan	43	William Phillips	71
COLONIALS 1776	6:27.13	Tom Long	30	Michael Powers	36	John Goode	65
T Flynn	70	IM	8:43.90	DELAWARE	8:57.09	Ken Kimball	68
Norman Garsoe	75	John Martin	43	Bill Wolfe	38	MARYLAND MASTER	12:04.94
Roger Franks	72	John Becker	34	J Faccenda	43	Frank Ganoczy	62
William Marino	71	James Bennett	35	David Roach	43	Philip Kerr	64
OJAI-SANTA BARB	7:21.60	Jon Bogie	27	David Mentzer	35	Bill Rodgers	66
Robert May	65	WPM	8:49.93	IM	9:01.00	John Harding	56
Vito Portanova	78	Steven Miller	45	Peter Alexander	40	MARY	12:48.87
Tom Mitchell	66	Daniel Levy	33	Michael Lilleeng	47	Bill Conroy	55
Boyd Ford	74	Chris Beliveau	39	John Craffey	41	Jim Forsythe	60
SAN MATEO MARL	7:39.83	Alan Romaner	36	Len Lencioni	48	Yu-Jin Lee	64
Don Stupfel	70	COLONIALS 1776	9:03.73	800 YD FREE REL	MEN 45+	Ken Pollock	66
Robt Schollse	75	John Pierson	28	NEW ENGLAND	7:52.24 98	800 YD FREE REL	MEN 65+
Ray Taft	79	D Whitehead	33	ROBERT SELTZER		ILLINOIS	10:06.41 98
Gus Schulze	73	Mark Bray	44	HOMER LANE		JOHN MASTERS	
400 YD MEDLEY R	MEN 75+	David Lawson	28	DAN ROGACKI		STEVE MULLINS	
OREGON	6:04.95 99	WIS MASTERS	9:04.42	FRED SCHLICHER		FRED LEHMAN	
EARL WALTER		Chris Beyer	34	MARYLAND MASTER	9:13.79	WAYNE LEENGRAN	
GERALD HUESTIS		Kurt Kleppek	34	Chris Ostrom	53	NO RELAYS	
ANDREW HOLDEN		Toby Haines	29	R Phillips	53	800 YD FREE REL	MEN 75+
GILBERT YOUNG		Jerry Lourigan	33	Jack Iliff	54	OREGON	12:04.39 99
OREG	6:04.95	LA MESA MASTERS	9:07.97	Bill Conroy	55	EARL WALTER	
Earl Walter	77	Toby Shipley	35	WIS MASTERS	9:20.61	GERALD HUESTIS	
Gerald Huestis	78	Darrill Andries	32	John Couper	52	ANDREW HOLDEN	
Andrew Holden	79	Steve Clay	46	Stephen Justinger	46	GILBERT YOUNG	
Gilbert Young	76	Matt Kritz	26	T G Meehan	52	OREG	12:04.39
800 YD FREE REL	MEN 19+	GREAT COLUMBUS	9:19.01	Art Luetke	52	Earl Walter	77
DAVIS AQUATIC	7:09.51 96	Mark MacNaughton	33	IM	9:28.90	Gerald Huestis	78
BRANDON CARTER		Jeff Riegler	26	Phil Dodson	45	Andrew Holden	79
MATT GRAHN		Josh Gordon	25	John Fitzgerald	50	Gilbert Young	76
BRAD WINSOR		Dennis Hogan	32	Andy Zoltners	53	MIXED RELAYS	
JOHN KEPPELER		800 YD FREE REL	MEN 35+	Peter Jackson	58	200 YD FREE REL	MIXED 19+
IM	8:19.87	ILLINOIS	7:18.10 99	NEM	9:33.16	TOC	1:30.96 99
Patrick Meenan	23	ANDREAS SEIBT		Albert Valliere	52	JESSICA TONG	
Brian Mulhern	24	THOMAS REDIG		David Prior	54	SHARON PATRICK	
David Ackerman	33	TED SOLTYS		Homer Lane	49	JOHN KEPPLER	
Scott Runkle	31	TOM MCCABE		Frank Mc Quiggan	50	KIRK EVERIST	
NEM	8:42.47	IM	7:18.10	LAKESIDE MASTER	9:35.12	TOC	1:30.96
Matthew Gilson	31	Andreas Seibt	40	John Nolan	50	Jessica A Tong	24
Jon Caswell	22	Tom McCabe	41	Thomas Finnegan	52	Sharon Patrick	27
Doug Webb	28	Ted Soltys	38	Charles Carter	46	John H Keppeler	32
Genaro Rodrigo	24	Thomas Redig	37	Glenn Hubbuch	52	Kirk F Everist	32
MARLIN MASTERS	8:49.41	EMP	7:55.12	W KY GREEN GATO	10:18.73	MICH	1:33.30
Trey Emerson	33	Matthew O'Grady	38	R Collins	55	Mark Gole	22
Tab Quisenberry	38	Dean Fochios	45	Jeff Stevens	45	Kristen Nagelkirk	24
Stephen Driver	47	John Needham	45	Mark Rogers	52	Raffi Karapetian	24
Ryan Mascenik	19	Steven Fisher	36	Lynn Olson	51	Ellen Lessig	24
800 YD FREE REL	MEN 25+	NEM	8:08.39	GREAT COLUMBUS	10:29.05	RMM	1:35.69
SANTA CLARA	7:00.25 94	Warren Wise	43	Michael Cohee	50	Aaron Mc Cormick	24
SERGEY MARINIUK		Tom Mack	40	Tim Konfal	51	Mike Gonzales	32
FRANZ MORTENSEN		David Bright	46	Robert Joyce	50	Laureen Welting	33
MICHAEL MOORE		Edmund Gendreau	36	Larry Ringer	51	Sarah Lee	32
JON CHRISTENSEN		NEM	8:15.84	LAKESIDE MASTER	10:42.03	DAM	1:36.77
CRESCENT HILL	7:52.83	Doug Bosley	36	Frank Diebold	50	Tim Mc Goldrick	25
Jeff Hogg	33	Larry Richardson	39	Randall Dufour	52	Tyler Woods	22
Hank Farris	28	Peter Worland	41	Woody Turrentine	50		
Eric Fors	28	Bob Seltzer	48	Rick Blondell	46		
Brad Schmied	26	COLONIALS 1776	8:20.25	NEM	11:29.90		
LAKESIDE MASTER	8:04.83	Ronald Marks	40	James Dorsey	54		
		Steve Oday	38	Peter Ottmar	51		
		Stephen Rode	41	Douglas Shearer	58		
		William Draves	37	Mark Formica	51		
		WIS MASTERS	8:26.80	OJAI-SANTA BARB	12:05.98		

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

Alice Wallace 23	John Galloway 33	LAM 1:43.32	LAM 2:02.13
Amy Hurst 23	Michael Halfast 33	Keefe Ludwig 55	James Duley 60
ARIZ 1:36.86	MUSIC CITY MAST 1:37.78	Susan Roy 51	Cornelia Lovette 55
Edward Goldstein 24	Patrick Krueger 28	Carolyn Boak 54	Grace Voss 55
Eduardo Piccinini 26	Melissa Geist 32	Dick Thomas 51	Thomas Boak 55
Dianne Wygal 33	Paul Stricker 38	WCM 1:43.91	DC MASTERS 2:03.40
Jennifer Jones 32	Deborah Challener 30	James De Lacy 52	Edward Emes 70
MVM 1:37.20	OREG 1:38.31	Cary Kent 47	Lee Bettis 61
Kirk E Kozlowski 41	Francesc Gambetti 26	Regin Brittingham 47	Beth Schreiner 58
Julia C Davies 25	Bill Zolna 29	Martha Alexander 49	Barbara Frid 57
Katie Liu 24	Karen Hakanson 33	INDY SWIMFIT 1:46.17	DC MASTERS 2:04.38
Mark T Sulger 41	Jeff Walker 38	Tom Perrin 48	Kenneth Flynn 69
SLUG 1:37.23		Craig Bauer 46	Frederick Zamon 57
Robert Whitley 49	200 YD FREE REL MIXED 35+	Maryann Stevens 45	Jayne Bruner 64
Janet Harlow 30		Susan Francis 46	Joann Leilich 60
Maria Elm 23	COLONIALS 1776 1:33.86 97	NEM 1:46.60	SPM 2:04.72
James Bergen 31	STU MARVIN	Robert L Seltzer 48	Peter Betzer 56
CRESCENT HILL 1:37.83	KATHY REMILLARD	Bruce Hunter 59	Elaine Bromwich 56
John Graham 53	JANE ZIEGLER	Susan Ketchen 46	Jayne Lambke 59
Michelle Ward 30	CHARLES NORELLI	Joel Feldmann 47	Pete Arnold 60
Julie Howard 24	WCM 1:35.02	SMMM 1:46.85	OREG 2:05.81
Charles Francke 42	Vernon Rogers 38	Danielle Ogier 46	George Thayer 63
STANFORD 1:38.60	Gary L Patterson 39	Dale Finch 48	Peggy S Whiter 55
Carr Philips 33	Laurie Vidal 36	Donald Galine 53	Pamela Himstreet 55
Steve Johnson 28	Paula Roemer 38	Randy Brown 51	Bert Petersen 60
Kathy Gelman 34	ARIZ 1:35.22	RMM 1:49.47	VIRGINIA MASTER 2:07.67
Jodi Jackson 21	Peter Nunan 41	Paul Mc Cormick 52	Edward Gaulrapp 56
ARIZ 1:38.64	John Piecuch 43	Carolyn Roche 48	Betsy Durrant 57
Francisco Suro 28	Liz Hobbs 37	Judy Reed 55	Laura Walker 61
Stephen So 24	Paula Pollard 35	Tim Varner 48	Jack Schiltz 56
Teri Lhost 33	RMM 1:35.42	U SAN FRANCISCO 1:51.90	
Ellen Baird 29	James E Lilley 39	Brad Pence 47	200 YD FREE REL MIXED 65+
	Kathy Garnier 38	Olga Burlyga 46	GOLD COAST 2:02.20 95
200 YD FREE REL MIXED 25+	Judy Nelson 38	Mary Saal 45	WILLIAM DOLAN
	Richard Hess 44	Richard Garrett 45	CYNTHIA BRUCE
S. CAL AQUATIC 1:29.40 90	NEM 1:37.02	WCM 1:51.91	MARGARET TIMMINS
CHUCK PONTHER	Robert Crowder 43	David Ahlman 47	DONALD SONIA
DIANE GRANER	Barbara Crowder 41	Mal Jester 50	ARIZ 2:08.41
KRISTINE BUSH	Stuart Cromarty 35	Bonnie Murphy 49	Ronald Johnson 67
PETER MCCLAFFERTY	Jennifer Luker 42	Karen Reilly 45	Dale Webster 73
SLUG 1:32.91	SCSC 1:37.99	GOLD 1:53.31	Edie Gruender 70
Mary Edwards 26	Bob Jackson 42	Cav Cavanaugh 63	Nancy Mac Beth 70
Derek Robinson 29	Lori Elwood 37	Anne Laborwit 48	WCM 2:15.35
Laura Hajost 31	E Buvik Jackson 35	Marcia Barry 50	Ann Hirsch 68
Bert Bergen 32	Franz Mortensen 35	David McIntyre 61	Donna Monroe 65
STAN 1:33.25	WCM 1:38.54	OREG 1:53.34	Robert Kahl 65
Shannon Lo 27	Joseph Tack 41	Richard Weick 65	Donald Brown 65
Carr Phillips 33	Patrick Duggan 35	Jackie Quattro 51	MVM 2:19.25
Aimee Lehr 31	Mindy Hamway 40	Sandi Rousseau 51	Jerome Rodder 70
Martie McKinney 34	Lisa Ward 35	Tom Andersen 48	Berna Bennett 71
WCM 1:34.03	U SAN FRANCISCO 1:39.99	200 YD FREE REL MIXED 55+	Barbara Callison 66
Jeffrey Rodgers 32	John Ottersberg 36	TAMALPAIS 1:48.78 99	Ed Kerswill 73
Kathleen Hartnett 27	Dea Frederick 36	RICHARD BURNS	OSB 2:22.61
Michelle Ghiggeri 30	Susan Vonwinckler 38	ED CAZALET	Tom Mitchell 66
Stephen Stahl 34	Chris Waters 35	CHARLOTTEJENKINS	Malchia Olshan 68
TAM 1:34.68	CHIC 1:40.00	NANCY RIDOUT	Ed Farrell 66
Andr Patrinellis 32	Jill Hernandez 38	TAM 1:48.78	Gay Collins 68
Robert C Macenzie 25	Laurence M Boag 50	Richard - Burns 55	WCM 2:26.24
Heather R Lugassy 28	Leslie Ulen 41	Ed Cazalet 56	Elfriede Rogers 71
Laura Val 47	Ray A Peck 39	Charlotte Jenkins 60	Joan Alexander 67
OSB 1:35.21	SNM 1:40.05	Nancy J Ridout 57	Frank Nieman 66
Wenke Hansen 29	Brant C Allen 36	OREG 1:48.99	Robert Mayo 65
Mike Shaffer 33	Malone Werschky 42	Robert S Smith 55	MARY 2:32.27
Jane Cairns 28	Janna Jensen 35	Joy Ward 56	Tom Powers 67
Brian Alderman 30	David W Vidimos 38	Sue Calnek-Morris 56	Betsy Rogan 65
OREG 1:36.83	TBAC 1:41.07	Tom Landis 57	Jill Coleman 68
Gregory S Latta 29	Carol Carter 35	SDSM 1:53.94	Ken Pollock 66
Lisa Hjerpe 30	Merit Greaves 35	Robert R Williams 56	FMM 2:32.88
Cathy Law 31	Brian Starford 35	Jeanne Little 62	Alan Maloney 70
Steve A George 39	Michael Scott 41	Jackie Marr 55	Gladys Olsen 72
U SAN FRANCISCO 1:37.02	200 YD FREE REL MIXED 45+	Mike Freshly 58	Jean Troy 71
John Monnick 31		SDSM 2:00.23	Robert MacDonald 70
Kendra Thayer 26	NEW ENGLAND 1:38.32 98	Steve Moseley 61	U SAN FRANCISCO 2:35.12
Pamela Franklin 29	LAWRENCE SHULMAN	Lynne Lund 58	William Grohe 66
Matthew Cerito 30	JOEL FELDMEN	Betsy Jordan 62	Margaret Voorhees 70
SPM 1:37.43	DAN ROGACKI	Bill Earley 62	Mary Allen 66
Lisa Summers 28	JACKI HIRSTY		Daniel Osborne 65
Charlott Petersen 34			

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

<p>SPM 2:36.29 Art Tebbens 69 Barbara Atwood 65 Mary Lou Mitchell 68 Harold Ferris 68 MARY 2:37.41 A Eremchuk 73 Bill Rodgers 66 Sarah Allnutt 75 Catherin Williams 74</p> <p>200 YD FREE REL MIXED 75+ SAN MATEO 2:38.61 95 AUDREY ETIENNE ZADA TAFT RAY TAFT ED MORAN</p> <p>OSB 2:40.05 Ruth Baar 76 John Stern 75 Grace Altus 75 Jurgen Schmidt 76 SMMM 2:51.25 Raymond Taft 79 Zada Taft 79 Audrey Etienne 82 Fred Taioli 78 SPM 3:03.87 Robert Atwood 78 Kay Schimpf 81 June Reynolds 77 Richard Avery 76 COAST MASTERS 3:26.20 Woodrow Bowersock 85 Walter Pfeiffer 85 Madeleine Miller 88 Maurine Kornfeld 77</p> <p>200 YD MEDLEY R MIXED 19+ GOLD COAST 1:41.15 95 LORRAINE PERKINS JOHN HEATH SCOTT WALKER HEATHER HAGEMAN PCTOC 1:41.97 Jessica A Tong 24 Greg Larson 29 Gavin Holles 32 Sharon Patrick 27 ARIZ 1:45.35 Eduardo Piccinini 26 Jill J Chasson 29 Edward Goldstein 24 Jennifer Jones 32 SLUG 1:47.59 Derek Robinson 29 Maria Elm 23 Sharon Elm 32 Bert Bergen 32 NEM 1:47.85 Leslie Allen 23 Simon Goldschmidt 26 Kriste Kleiner 24 Rob Berry 31 LJCC 1:49.33 Richard G Daniels 31 Derron Fredrick 31 Cynthia Janssen 23 Laura Galinson 36 MICH 1:49.34 Kevin Everiett 24 Isaac Farnsworth 23 Ellen Lessig 24 Kristen Nagelkirk 24 RMM 1:49.47 Aaron Mc Cormick 24</p>	<p>John D Doebbeling 29 Cheryl Longfellow 29 Kimberly Geil 29 DAM 1:49.68 Jeremy Vander Kam 24 Tyler Woods 22 Amy Hurst 23 Alice Wallace 23 OREG 1:51.31 Bryan Addleman 24 Kristine Lewis 28 Chandra Haislet 29 Joaquin Romera 24 ST. LOUIS MASTE 1:51.39 Aaron Hawks 24 Susan Richmond 37 Maurice Stewart 29 Heidi Harris 34</p> <p>200 YD MEDLEY R MIXED 25+ LONE STAR 1:39.01 91 MOOK RHODENBAUGH GREG RHODENBAUGH VAL KERR-HAUGE AMY PLESS SLUG 1:43.03 Mary Edwards 26 Janet Harlow 30 Marcel Rinzler 28 James Bergen 31 PCSTAN 1:44.00 Aimee Lehr 31 Brian Scottoline 34 Martie McKinney 34 Shannon Lo 27 OSB 1:44.78 Scott W Reed 28 Wenke Hansen 29 Brian Alderman 30 Jane Cairns 28 SLUG 1:45.15 Alec J Campbell 33 John Harlow 30 Hannenian Kissel 28 Laura Hajost 31 RMM 1:45.23 Mike Gonzales 32 David S Gray 40 Lauren Welting 33 Sarah Lee 32 BLS 1:45.38 Stacy Gentry 25 David Guthrie 38 Bobby Patten 36 Tiffany Forbes 32 WCM 1:45.48 Kathleen Hartnett 27 Stephen Stahl 34 Jeffrey Rodgers 32 Paula Roemer 38 SNM 1:45.62 Andrew Bohlman 28 Janna Jensen 35 Terri O Wuels 31 Rob K Laurie 32 TOC 1:45.64 John H Keppeler 32 Jamie Patrick 28 Joan Schriger 34 Marguerite Meyer 40 SPM 1:46.97 Bob Buresh 40 Lisa Summers 28 William L Specht 41 Charlot Petersen 34</p> <p>200 YD MEDLEY R MIXED 35+</p>	<p>S. CAL AQUATIC 1:44.23 92 CLAY EVANS KAREN MELICK JIM BELARDI BONNIE ADAIR WCM 1:45.59 Lisa Ward 35 Gary L Patterson 39 Charlene O'Brien 42 Vernon Rogers 38 SDSM 1:47.70 K Pipes-Neilsen 37 Caroline Krattli 37 Stephen Segreto 35 James Boswell 38 WCM 1:48.06 Penny Leach 36 Patrick Duggan 35 Kerry O'Brein 42 Laurie Vidal 36 PNA 1:48.40 Ronald Jacobs 47 Lisa Wilson 37 Mary Lippold 42 Jack Stavros 38 ARIZ 1:48.58 Liz Hobbs 37 Paula Pollard 35 John Piecuch 43 Peter Nunan 41 SLUG 1:48.80 D Graner-Gallas 35 John Templin 45 Margaret Miller 38 Mark Rubke 46 OREG 1:51.94 Michelle Morrell 36 Pat Allender 40 Chris M Roth 40 Barbara P Harris 39 NEM 1:52.62 Robert Crowder 43 Jennifer Luker 42 Barbara Crowder 41 Stuart Cromarty 35 SPM 1:52.75 Cathy Shonkwiler 38 Maud Orlando 36 William Specht 40 Timothy Kennedy 42 SNM 1:53.71 Brant C Allen 36 Peter Schouweiler 44 Nancy Rose 37 Malone Werschky 42</p> <p>200 YD MEDLEY R MIXED 45+ LOS ALTOS 1:52.68 94 DICK THOMAS SUSAN ROY CAROLYN BOAK DAVID GRAY LAM 1:54.77 Dick Thomas 51 Susan Roy 51 Keefe Lodwig 55 Carolyn Boak 54 SNM 1:55.26 Clifford Johnson 47 Don W Mckenzie 52 Susan Tyler 50 Celeste Miller 49 MARYLAND MASTER 1:58.45 Marti Betz 49 John Enterline 52 Jim Oconnor 45</p>	<p>B Johnston 47 SLUG 1:59.95 Mimi Frank 52 Maureen Kikut 54 Boo Graner-Gallas 51 Robert Whitley 49 IM 2:00.22 John Fitzgerald 51 Pat Brummet 53 Ekkehard Shoettle 46 Carol Taggart 49 CHIC 2:01.25 Camille Panigetti 48 Laurence M Boag 50 Debra Doman 46 Ronald Hotmer 45 NEM 2:01.70 David Bright 46 Robert L Seltzer 48 Joel Feldmann 47 Susan Ketchen 46 RMM 2:02.47 John Hughes 45 Mary Wohl Haan 45 Carolyn Roche 48 Paul Mc Cormick 52 WCM 2:03.10 Gene Hart 46 Mal Jester 50 Karen Reilly 45 Bonnie Murphy 49 VIRGINIA MASTER 2:07.21 Don Farmer 49 Nancy Miller 49 Terry Gault 48 Jim Miller 48</p> <p>200 YD MEDLEY R MIXED 55+ OREGON 2:04.10 99 JOY WARD ROBERT SMITH BERT PETERSEN SUE CALNEK-MORRIS OREG 2:04.10 Joy Ward 56 Robert Smith 55 Bert Petersen 60 Sue Calnek-Morris 55 TAM 2:04.70 Richard - Burns 55 Ed Cazalet 56 Nancy J Ridout 57 Charlotte Jenkins 60 SDSM 2:08.42 Betsy Jordan 62 Mike Freshly 58 Robert R Williams 56 Jackie Marr 55 WCM 2:15.77 Barbara Jordan 61 Jack Lance 56 Emory Haworth 63 Midge Kraetzer 60 DC MASTERS 2:16.31 Lee Bettis 61 Joann Leilich 60 Barbara Frid 57 Frederick Zamon 57 VIRGINIA MASTER 2:18.15 Betsy Durrant 57 Jack Schiltz 56 Alec Thomson 55 Laura Walker 61 SDSM 2:19.03 Bill Earley 62 Steve Moseley 61 Lynne Lund 58</p>
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1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

Jeanne Little	62	RUTH BAAR		Bobby Gonzales	35	S Rothenberger	35
TOC	2:19.49	JOHN STERN		Monique Gainer	34	Steve Oday	38
Margery Meyer	76	JURGEN SCHMIDT		Melissa Lykins	24	VIRGINIA MASTER	4:19.41
James Krueger	60	GRACE ALTUS		Lee Dancy	42	Victoria Wells	39
Stephen Clark	55	OSB	2:57.98	WACO FAMILY Y	4:59.99	Jack Schiltz	56
Nancy Stretch	59	Ruth Baar	76	Matt McKinney	25	Kitten Braaten	43
SPM	2:19.75	John Stern	75	Jan Miller	47	G Lanzara	40
John Risher	63	Jurgen Schmidt	76	Sarah Slattery	19	SOUTH WEST MAST	4:23.57
Peter Betzer	56	Grace Altus	75	Robert Kelsey	62	Stephen Peck	42
Jayne Lambke	59	SMMM	3:13.54	400 YD FREE REL MIXED	25+	Cheryl Plantz	44
Elaine Bromwich	56	Audrey Etienne	82	U OF SAN FRAN	3:27.39 92	Lance Keene	40
NCMS	2:20.18	Kelly Hohl	77	DAN KNIGHT		Theresa Murphy	41
S Robbins-Bonitz	65	Raymond Taft	79	KELLY ASPLUND		MGCM	4:48.90
Milton Gee	62	Fred Taioli	78	MICHELLE YOUNG		Kathy Smith	41
Jerry Clark	61	WCM	3:23.83	MATT JONES		Jan Hinson	45
Sally Newell	61	Patricia Prevetz	78	COLONIALS 1776	3:45.55	Barry Rich	52
200 YD MEDLEY R MIXED	65+	Joe Howell	76	JERRI FREIMUTH	34	Alan Davis	35
GOLD COAST	2:22.24 95	William Johnston	80	D Whitehead	33	MARY	4:52.60
CYNTHIA BRUCE		Robert Stringham	80	Laurie Hug	34	Eric Smookler	35
DON SONIA		SPM	3:48.09	Andrew Ellis	30	Linda Leichter	37
JUNE KRAUSER		Richard Avery	76	NEM	3:46.73	Susan Taylor	40
WILLIAM DOLAN		Kay Schimpf	81	Scott Jarr	31	Gordon Haines	46
WCM	2:28.38	June Reynolds	77	Lynne Czech	32	PS	5:05.07
Donald Brown	65	Fred Walbolt	86	Gillian Langton	31	Sally Menk	60
Ann Hirsch	68	SMMM	4:57.67	Michael Sever	28	Jessie Watson	53
Joan Alexander	67	Fred High	77	WPM	3:47.58	Ted Saul	37
Robert Kahl	65	Hilda Buel	85	Michael Ruggiero	30	Mark Hileman	45
MARYLAND	2:34.22	Zada Taft	79	Jean Kellachan	27	O*H*I*O MASTERS	5:59.41
Don Rice	65	Joe Kaufman	94	Lynn Anderson	32	Robert Boyce	45
Betsy Rogan	66	400 YD FREE REL MIXED	19+	Greg Werlinich	34	Virginia Simmons	35
Sarah Allnutt	75	U OF SAN FRAN	3:25.18 92	MONTG ANCIENT M	3:51.93	Lilly Kron	67
Thomas Powers	67	GREG MACKEM		Nate Gordon	29	Julio Aponte	53
OSB	2:43.15	JENNIFER SADLER		Carole Kammel	30	400 YD FREE REL MIXED	45+
Gay Collins	68	BRENDA WICKLUND		Penny Bates	37	GRIN	3:54.43 99
Ed Farrell	66	GARY YANG		John Feinstein	43	ROGER JONES	
Tom Mitchell	66	NEM	3:42.27	NEM	3:57.58	SUE FRANCIS	
Malchia Olshan	68	Elizabeth Zehr	24	Bridget Samuel	30	MARY ANN STEVENS	
SDSM	2:43.33	Chris Phalen	34	Paula Lessard	35	TOM PERRIN	
Diana Silva	77	Diana Hall	28	Frank Grillo	36	INDY SWIMFIT	3:54.43
Donald Baker	68	Peter Russo	34	Robert Sczupak	30	Roger Jones	51
Parry O'Brien	67	GERMANTOWN MAST	3:49.79	DELAWARE	4:07.48	Susan Francis	46
Ann Dallam	68	Eunice Ching	28	Vicki Ashworth	25	Maryann Stevens	45
SPM	2:47.47	John Folk	39	C Killian	26	Tom Perrin	48
Barbara Atwood	65	Jennifer Stowe	24	Brad Killian	30	WIS MASTERS	4:10.14
Charles Kohnken	67	William Bare	24	C Colburn	27	Nancy Fisher	47
Thomas Smith	71	SOUTH WEST MAST	3:56.42	WIS MASTERS	4:35.95	Nancy Ehrke	45
Mary Lou Mitchell	68	Lauralyn Beckley	23	Toby Haines	29	T G Meehan	52
WALNUT CREEK	2:54.97	David Johnson	29	Frances Jennings	42	Stephen Justinger	46
Robert Mayo	65	Sarah Guthrie	24	Sonya McKay	25	VIRGINIA MASTER	4:12.11
Frank Nieran	66	David Strybel	44	Jerry Lourigan	33	Terry Gault	48
Elfriede Rogers	70	CY-FAIR CY-CLON	4:00.84	LA MESA MASTERS	5:58.74	Don Farmer	49
Donna Monroe	65	M Rinehold-Armstr	23	Darrill Andries	32	Laura Walker	61
MARY	2:58.42	Robert Shaw	51	M'Liss Hinshaw	44	Jim Miller	48
Sarah Allnutt	75	Nicky Delbridge	22	Ann J Martin	69	DC MASTERS	4:13.99
A Eremchuk	73	Alex Fuller	24	Stephen Clay	46	Denise Kirwan	47
Bill Rodgers	66	NEM	4:01.36	GAJA	6:08.38	Ann Lyttle	51
Catherin Williams	74	Erin Powers	24	David Skrine	32	Paul Grueneberger	52
WIS MASTERS	2:59.96	Rebeca Kupcinkas	25	Wendy Kane	38	John Abbott	49
Betty Lorenzi	71	William Riddell	30	Kellogg Patton	47	MARYLAND MASTER	4:33.62
John Bauman	68	Mark Murphy	33	Douglas James	59	B Johnston	47
Tom Michelson	67	NEM	4:09.40	400 YD FREE REL MIXED	35+	John Dillinger	49
Betty Kendall	78	Jon Caswell	22	TEXAS AQUATIC	3:30.17 95	P Wingenter	54
FMM	3:00.54	Trina Young	22	S.NEILSON-BELL		Bill Conroy	55
Paul Hutinger	74	Neville Barry	23	DAVE HAGUE		COLONIALS 1776	4:39.67
Robert MacDonald	70	Matthew Gilson	31	KARLENE WISE		P Timmins	45
Gladys Olsen	72	WACO FAMILY Y	4:43.92	BRUCE GREENWOOD		Judy Michel	52
Jean Troy	71	Matt Bierwirth	34	MARYLAND MASTER	4:01.42	J Howett	53
IM	3:03.80	Sean McCarthy	39	Steven Jones	40	Henry Detering	53
Stephen Mullins	66	Michele Pettijohn	24	Gladney McKay	38	DC MASTERS	4:43.42
Hannelore Snyder	68	Julie Hicks	19	Barbara Protzman	44	Andrea Haines	51
Gerald Williams	71	MARYLAND MASTER	4:47.39	Bill Kvetkas	37	Ruth Bennett	52
Henrietta Berning	65	Rob Dobry	44	COLONIALS 1776	4:09.37	Frederick Zamon	57
200 YD MEDLEY R MIXED	75+	V Weichert	32	Susan Hartman	36	Clay Beall	52
OJAI	2:57.98 99	D Chambers	23	Mark Bray	44	NEM	4:53.65
		C McFadden	29			H Burstyn	47
		ART	4:51.79			Debbie Levens	45

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

Gary Ungerleider	46	Bob Merrick	78	Xavier Henselmann	31	Doug Bosley	36
Linda Carstens	46	Madeleine Miller	88	STANFORD	4:06.07	ROLLING HILLS M	4:31.25
MICH	4:57.65	Woodrow Bowersock	85	Steve Joy	28	Eric Van Boer	44
Paul Chaffee	56	400 YD MEDLEY R MIXED 19+		Kathy Gelman	34	Cokie Lepinski	39
Joyce Kowalski	56	STANFORD	3:52.98 99	Randy Cox	36	Bill Adkison	43
Beverly Myers	63	JODI JACKSON		Leah Jar	25	Susie Virsta	43
Tom Moyer	51	SPENCER ELDRED		COLONIALS 1776	4:09.21	TAMALPAIS	4:37.68
MAST OF BRAZOS	5:01.43	MARTIE MCKINNEY		David Lawson	28	Barb Wheeler	42
Bob Popp	52	WOODY WOODRUFF		James Schall	38	Phil Jonch	46
Judy Wagner	53	STANFORD M	3:52.98	Laurie Hug	34	Erik Sterne	56
Suzy Reiersen	47	Jodi Jackso	21	Vibeke Swanson	37	Jessica Jackobi	41
Thomas Lalk	57	Spencer Eldre	42	VIRGINIA MASTER	4:13.76	NEM	4:42.78
400 YD FREE REL MIXED 55+		Martie McKinney	34	Kurt Sprenger	29	Chris French	37
OREGON		Woody Woodruf	28	C Boxley	37	K Nisley-Black	43
JOY WARD		WALNUT CREEK	3:53.07	Dave Holland	31	Mike Hirst	38
PAMELA HIMSTREET		Kathleen Hartnett	26	Susan Skiff	44	Tracy Grilli	42
TOM LANDIS		Kevin Raats	20	MENLO PARK	4:20.42	U SAN FRANCISCO	4:45.07
ROBERT SMITH		Steve Stahl	34	Tracey McLachlan	26	Ham Homan	39
OREG	4:12.82	Caren McNamara	37	Lisa Sheeper	34	Laurie Chesler	35
Joy Ward	56	NEM	3:58.03	Dave Kane	28	Cathy Huang	44
Pamela Himstreet	55	Rob Berry	30	Ed Owen	27	Tim Harvey	44
Tom Landis	56	Jonathan Banville	28	WPM	4:22.85	400 YD MEDLEY R MIXED 45+	
Robert Smith	55	S Stringfellow	23	Steven Miller	45	LOS ALTOS	4:21.50 94
DC MASTERS	4:42.94	Leslie Allen	23	Geneve Hendricks	30	DICK THOMAS	
Kenneth Flynn	69	U SAN FRANCISCO	4:01.43	Kate Hyland	30	SUSAN ROY	
Lee Bettis	61	Scott Masic	23	Michael Ruggiero	30	CAROLYN BOAK	
Beth Schreiner	58	Nicola Clegg	23	DC MASTERS	4:25.03	DAVID GRAY	
Barbara Frid	57	Pamela Franklin	29	S Moretto	33	DC MASTERS	4:30.61
VIRGINIA MASTER	4:48.00	Pamela Franklin	29	Charles Evans	27	Denise Kirwan	47
Alec Thomson	55	Thomas Pierce	24	Rose Rice	25	Joann Leilich	60
Betsy Durrant	57	U SAN FRANCISCO	4:09.81	Teresa Allen	26	John Calvert	53
Laura Walker	61	Amber Eandi	20	LYNBROOK	4:29.28	Paul Grueneberger	52
Edward Gaulrapp	56	Maya Nastion	25	L Fischer-Colbrie	42	WALNUT CREEK	4:32.12
MARY	4:55.92	Chris Mayfield	29	Steve Schiel	33	Gene Hart	47
Yu-Jin Lee	64	John Monnich	31	Rich Cruze	27	Mal Jester	49
Joan Libby	58	GERMANTOWN MAST	4:21.29	Carolyn Campbel	37	Regin Brittingham	46
Nancy Brown	62	Jennifer Stowe	24	MENLO PARK	4:33.69	Marty Alexander	49
John Harding	56	Daniel Blitz	32	Gail Samuels	28	U SAN FRANCISCO	4:36.53
MARYLAND MASTER	5:47.01	Steve Phillips	22	Dar Paczuski	32	Olga Burlyga	46
Frank Ganoczy	62	Eunice Ching	28	Chester Fung	25	Richard Garrett	45
Frances Weston	59	NEM	4:21.55	Judy Strauss	44	Brad Pence	47
Barbara Wandel	55	Lynn Kelley	27	400 YD MEDLEY R MIXED 35+		Mary Saal	45
Philip Kerr	64	Donald Soto	27	WALNUT CREEK	3:57.46 99	WIS MASTERS	4:37.36
NEM	6:08.05	Brian Casey	35	PAULA ROEMER		Nancy Fisher	47
Alice Seidel	57	Valerie Weiss	24	PATRICK DUGGAN		Nancy Ehrke	45
Charles Dufour	55	CY-FAIR CY-CLON	4:23.16	KERRY O'BRIEN		Dick Pitman	54
Barbara Boley	74	Alex Fuller	24	LAURIE VIDAL		T G Meehan	52
Buck Robinson	60	Jon Armstrong	23	WALNUT CREEK	3:57.46	MENLO PARK	5:04.32
400 YD FREE REL MIXED 65+		M Rinehold-Armstr	23	Pam Roemer	37	Ginny Langmir	46
OJAI/S BARBARA		Nicky Delbridge	22	Pat Duggan	35	Katherine Bass	47
5:05.22 96		MARY	4:28.79	Kerry O'Brien	42	Murray McLachlan	58
MALCHIA OLSHAM		Craig Dewing	28	Laurie Vidal	36	John Sulzbac	64
GAY COLLINGS		Kevin Grayson	23	WALNUT CREEK	4:05.15	U SAN FRANCISCO	5:05.46
FRANK PIEMME		Danielle Devito	20	Penny Leach	36	Kent Ford	45
JURGEN SCHMIDT		Mary Chen	24	Gary Patterson	37	Nancy Cutler	45
MARY	6:00.10	STANFORD	4:29.52	Charlene O'Brien	42	Gary Ruff	45
Tom Powers	67	Peter Skinner	44	Joe Tack	37	Susan Allen	54
Betsy Rogan	65	Eileen Wall	41	U SAN FRANCISCO	4:06.31	VIRGINIA MASTER	5:17.72
Jill Coleman	68	Shannon Lo	24	Cory Mackie	35	Don Farmer	49
Ken Pollock	66	Kelly Johnson	24	Jack Ewing	38	Nancy Miller	49
COLONIALS 1776	6:36.76	400 YD MEDLEY R MIXED 25+		Chris Waters	35	Terry Gault	48
Ruth Aaron	70	U SAN FRAN	3:48.74 97	Susan Vonwinckler	38	Jim Miller	48
Mary Wixted	77	JILL ROTHKOFF		VIRGINIA MASTER	4:13.84	MARYLAND MASTER	5:33.33
John Emanuel	74	SUSIE MORTENSON		L Hasselquist	41	R Phillips	53
Roger Franks	72	MATT CERIZO		Todd Russell	41	P Wingerter	54
400 YD FREE REL MIXED 75+		MATT JONES		Beth Baker	38	Sally Iliff	53
WISCONSIN	6:37.85 96	U SAN FRANCISCO	3:58.19	Lang Meem	44	John Dillinger	49
BETTY KENDALL		Monique Petrov	29	SANTA CRUZ	4:24.93	ROLLING HILLS M	5:42.86
FRAN ZEUMER		Bruce Crock	26	Sue Brause	42	Maggie Tevis	51
HERBERT HOWE		Oleg Litvinov	32	Gary Krage	43	Susan Atamanick	50
LYNN SURLS		Stacy Weinthal	30	Joel Wilson	50	Rob Pine	46
COAST MASTERS	7:49.26	EMP	4:06.07	Kathryn Vatsuva	40	George Vigure	54
Maurine Kornfeld	77	Carolyn Drake	27	NEM	4:28.80	COLONIALS 1776	5:44.61
		Dan Guerrera	28	Kevin Stapleton	36	Diana Roemig	46
		Margaret Brown	27	Laurie Ellis	35	John Roemig	48
				Karen Gleason	38	P Timmins	45

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

Mark Lefevre	45	Sarah Allnutt	75	David Koconis	33	WALNUT CREEK	8:36.77
400 YD MEDLEY R MIXED	55+	Lou McComas	67	Meredith Cox	24	Olivia Moore	39
TAMALPAIS	4:55.21	Bill Rodgers	66	800 YD FREE REL MIXED	25+	B J Henry	35
RICHARD BURNS		Betsy Rogan	66	COLONIALS 1776	7:40.50	Paul Turek	35
EDWARD CAZALET		U SAN FRANCISCO	7:08.58	VIBEKE SWANSON		Glen Hoxie	39
NANCY RIDOUT		Margaret Voorhees	70	LAURIE HUG		MARYLAND MASTER	8:52.99
CHARLETTE JENKINS		Barry Galvin	66	DAVID LAWSON		K Branch	41
TAMALPAIS M	4:55.21	Daniel Osborne	65	ANDREW ELLIS		Sherif Shaalan	40
Rich Burns	56	Mary Allen	66	COLONIALS 1776	7:40.50	Barbara Protzman	44
Ed Cazalet	56	400 YD MEDLEY R MIXED	75+	Vibeke Swanson	37	Bill Kvetkas	37
Nancy Ridout	57	SAN MATEO	8:10.41	Laurie Hug	34	MARY	8:54.32
Charlotte Jenkins	60	JOE KAUFMAN		David Lawson	28	Kurt Pfaff	46
VIRGINIA MASTER	5:09.07	HELEN ROUMASSET		Andrew Ellis	30	Annette Holmgren	37
Betsy Durrant	57	RAY TAFT		U SAN FRANCISCO	8:04.97	Denise Priddy	35
Edward Gaulrapp	56	AUDREY ETIENNE		Maya Nasution	25	Craig Nelson	40
Jack Schiltz	56	COAST MASTERS	9:20.73	Tim Harvey	44	U SAN FRANCISCO	8:55.01
Laura Walker	61	Woodrow Bowersock	85	Dianne Gleason	33	Brian Seuse	42
WALNUT CREEK	5:15.58	Madeleine Miller	88	Sean Killian	31	Susan Vonwinckler	38
Midge Kraetzer	60	Walter Pfeiffer	85	WALNUT CREEK	8:12.81	Cathy Huang	44
Joyce Haworth	60	Maurine Kornfeld	77	Karen Duggan	28	Tom Monica	41
Emory Haworth	63	800 YD FREE REL MIXED	19+	Kathleen Hartnett	27	MENLO PARK	8:58.11
Jim Perilman	60	DAVIS	7:48.42	Steve Stahl	34	Jane Burks	41
SPM	5:41.18	ANNA SCOTT	92	Dave Stoddard	33	Judith Schwartz	44
Peter Betzer	56	C. CHICHESTER		MENLO PARK	8:22.27	Shawn Smucks	37
Jacquelyn Piper	61	ANDY MCPHERSON		Ed Owen	27	Dave Quincy	38
Jayne Lambke	59	DARREN DUTTO		Tracey McLachlan	26	SAN RAMON	9:11.18
Harry Piper	64	STRAWBERRY CANY	8:20.14	Lisa Sheeper	34	Judy Bracken	41
COLONIALS 1776	6:07.86	Adam Madokoro	21	John Moore	34	Tina Talbot	38
E Krupka	61	Helen Salcedo	23	DC MASTERS	8:30.70	Ron Emhuff	43
Jack Kirlin	60	Alison Hilgers	21	Amy Demasi	36	Jim Silk	39
P Tullman	62	Lee Wanie	24	Charles Evans	27	SAN MATEO MARL	10:07.78
Harry Hemmerle	60	U SAN FRANCISCO	8:23.99	Drew Moll	40	Sue Free	36
U SAN FRANCISCO	6:25.23	Heather Roye	24	Rose Rice	25	Stan Panko	60
Tanako Hagiwar	60	Oleg Litvino	32	VIRGINIA MASTER	8:32.44	Heidi Hagler	40
Carol Requad	61	Stacey Weintale	30	Dave Holland	31	Joel Swartz	40
Jay Folber	57	Thorsten Anderso	32	L Hasselquist	41	U SAN FRANCISCO	10:08.58
Chris Saunder	60	NEM	8:35.68	Victoria Wells	39	John Ottersberg	36
ST. LOUIS M	6:32.97	Meghan O'Conner	25	Kurt Sprenger	29	Barbara Byrnes	42
Bill Cannon	68	Karen Smyers	37	CRESCENT HILL	8:33.05	Susan Brouard	39
Caryl Simon	61	Christ O'Donnell	20	Norman Schippert	35	Mike Slyter	36
Charles Shedd	55	Ryan Davenport	24	Janet Zeller	35	800 YD FREE REL MIXED	45+
Cheryl Corbett	66	NEM	8:42.62	Donna Johnson	31	DC MASTERS	8:48.91
MARYLAND MASTER	6:40.50	Peter Couto	24	Michael Neal	34	DENISE KIRWAN	
Jill Coleman	68	Jeffrey Lenihan	32	U SAN FRANCISCO	8:39.78	ANN LYTTLE	
Barbara Wandel	55	Neville Barry	23	Nancy McIlvaine	31	PAUL GRUENEBERGER	
Frank Ganoczy	62	Trina Young	22	Curtis Smith	34	JOHN CALVERT	
Philip Kerr	64	FOG CITY	8:45.57	Joanna Belkin	30	DC MASTERS	8:48.91
U SAN FRANCISCO	6:58.16	Nathan Price	27	Arthur Mantey	42	Denise Kirwan	47
Joe Illick	64	Elise Kanacon	24	TEAM ORACLE	8:42.18	Ann Lyttle	51
Ila Chale	61	Josh Cohen	27	Mark Welsh	26	Paul Grueneberger	52
Robert Fewster	60	Erica Dunn	25	Gayle Blumengold	32	John Calvert	53
Marg Passanisi	55	GERMANTOWN MAST	8:51.68	Michelle Deasy	27	MARYLAND MASTER	9:17.87
U SAN FRANCISCO	8:05.45	Eunice Ching	28	Greg Ishil	27	Jack Iliff	54
Paul Warren	61	Matt Ellenburg	24	STRAWBERRY CANY	8:45.79	Susan Marinzal	46
Deborah Keevee	62	Jennifer Stowe	24	Jason Rubid	27	Marti Betz	49
Jack Fleming	63	John Folk	39	Alison Howarad	32	Chris Ostrom	53
Susan Hafer	56	U SAN FRANCISCO	9:11.45	Suzanne Baker	25	SAN MATEO MARL	9:24.15
400 YD MEDLEY R MIXED	65+	Lisa Jakson	22	Rick Borry	28	Danielle Ogier	46
WALNUT CREEK	5:39.28	Charles Emm	29	800 YD FREE REL MIXED	35+	Dick Peterson	61
DONALD BROWN		Devon Sherwood	28	WALNUT CREEK	7:44.80	Dale Finch	48
FRANK NEIMAN		Patrick McBride	29	KERRY O'BRIEN		Gary Brenner	51
ANN HIRSCH		U SAN FRANCISCO	9:13.61	MARGE CURRAN		U SAN FRANCISCO	9:27.26
DONNA MONROE		Shanna Sauer	26	PATRICK DUGGAN		Richard Garrett	45
WALNUT CREEK	5:39.28	Doug Fioranelli	24	LAURIE VIDAL		Mary Saal	45
Don Brown	65	Kate Sweetman	34	WALNUT CREEK	7:44.80	Susan Allen	54
Frank Neiman	66	Kevin O'Boyle	34	Kerry O'Brien	42	Steve Mundscha	45
Ann Hirsch	65	STRAWBERRY CANY	9:22.65	Margee Curran	38	WIS MASTERS	9:31.43
Donna Monroe	65	Hayward Kong	25	Pat Duggan	36	T G Meehan	52
WALNUT CREEK	6:33.62	Hanna Kim	21	Laurie Vidal	36	Nancy Ehrke	45
Bob Mayo	65	Serena Kwan	19	VIRGINIA MASTER	8:30.63	Nancy Fisher	47
Elfriede Rogers	71	James Gray	24	Lang Meem	44	Stephen Justinger	46
Bob Kahl	65	NEM	9:23.78	Beth Baker	38	SAN RAMON	10:11.49
Betty McMillan	70	Bridget Samuel	30	Susan Skiff	44	Sally McGredy	47
MARYLAND MASTER	6:38.80	Peter Buerhaus	44	Todd Russell	41	Susan Stamen	46
						Steve Small	46
						Allan Cartwright	57

1998-1999 SHORT-COURSE YARDS - TOP-TEN RELAYS

COLONIALS 1776	10:20.71	William Grohe	66
Judy Michel	52	Margaret Voorhees	70
J Jastremski	51	Richard Schoumbur	72
Henry Detering	53	SAN MATEO MARL	16:44.91
M Slemker	52	Gloria Stupfel	71
U SAN FRANCISCO	10:31.73	Ann Lambertson	68
Nancy Cutler	45	Don Stupfel	70
Mark Block	47	Fred High	77
Sunny Blende	48		
Gary Ruff	45		
WALNUT CREEK	10:42.29	800 YD FREE REL MIXED	75+
Cathy Aaron	49		
Stephanie Scott	51	SAN MATEO	14:16.33 93
Mike Razza	53	AUDREY ETIENNE	
Ken Burr	54	HELEN ROUMASSET	
MAST OF BRAZOS	11:12.81	JOE KAUFMANN	
Bob Popp	52	ED MORAN	
Judy Wagner	53	SAN MATEO MARL	15:33.48
Suzy Reiersen	47	Audrey Etienne	81
Thomas Lalk	57	Zada Taft	79
		Ray Taft	79
		Robt Schulse	75
800 YD FREE REL MIXED	55+		

SAN DIEGO	9:57.76 97
MIKE FRESHLEY	
CAROL SING	
BILL EARLEY	
BETSY JORDAN	

DC MASTERS	10:47.06
Joann Leilich	60
Barbara Frid	57
Kenneth Flynn	69
Lee Bettis	61

VIRGINIA MASTER	10:50.65
Edward Gaulrapp	56
Betsy Durrant	57
R Schanzer	56
Jack Schiltz	56

U SAN FRANCISCO	11:04.32
Tanako Hagiwara	60
Robert Fewster	6
Carol Requadt	61
Chris Saunder	60

WALNUT CREEK	11:04.96
Joyce Haworth	60
Emory Haworth	62
Midge Kraetzer	60
Jeff McCreary	55

MARYLAND MASTER	13:20.01
Ken Pollock	66
Jill Coleman	68
Barbara Wandel	55
Frank Ganoczy	62

SAN FRANCISCO	14:38.96
Deborah Keeve	62
Sarah Devis	75
Doug Akagi	56
Richard Fabian	56

800 YD FREE REL MIXED 65+

WALNUT CREEK	10:59.95 99
DONNA MONROE	
ANN HIRSCH	
ROBERT MAYO	
DON BROWN	

WALNUT CREEK	10:59.95
Donna Monroe	65
Ann Hirsch	68
Bob Mayo	65
Don Brown	65

WIS MASTERS	12:48.40
Betty Lorenzi	71
Betty Kendall	78
W Morgan Byers	70
Robert Kueny	68

U SAN FRANCISCO	14:07.88
Mary Allen	66

ERRATA FOR 1998 TOP-TEN SHORT-COURSE METERS

WOMEN 19-24		2:04.56 Sextus Tansinsin	26	100 M. BREASTSTROKE	
=====		2:05.13 Sean Lemm	26	1:10.27 Robert Strand	52
200 M. FREESTYLE		2:05.35 Brandon Carter	27	1:11.32 Don Mc Kenzie	51
2:19.70 Merideth Cox	23	2:06.47 Carlo Waldfried	29	1:18.58 Gary J Parlapiano	51
2:24.32 K Goldthorpe	23	2:06.62 Ed G Owen	27	1:19.08 Kenneth A Frost	53
2:24.88 Miah Broussard	22	2:06.64 Mike Self	28	1:20.77 David Ugarkovich	51
2:26.06 Lee Anne Britt	24	100 M. BACKSTROKE		1:21.12 Edward Nessel	53
2:27.29 Gina Cheuk	19	59.09 Marc Rinzler	27	1:21.47 Wayne Mc Cauley	50
2:27.46 Kristi Lee	23	1:00.05 Timothy J O'Mara	26	1:21.81 Dennis J Wilson	50
2:31.67 Catherine Fuss	24	1:04.93 Mike Kramp	25	1:21.97 James Redic	52
2:31.90 Emilie Ellis	24	1:05.23 Andrew Farrell	27	1:22.12 Steven Peterson	52
2:32.11 Jill Murany	24	1:05.30 Chappie De Haven	29		
2:32.34 Katie Sergeant	24	1:05.93 James Ralph	25	MEN 55-59	
400 M. FREESTYLE		1:06.01 Todd Doherty	27	=====	
4:49.36 Julia C Davies	24	1:06.70 Brian Tobin	26	100 M. FREESTYLE	
4:51.03 Merideth Cox	23	1:10.07 Kimo Phillips	26	1:01.44 Richard Burns	55
5:06.11 Kristi Lee	23	1:10.24 Will Johnson	27	1:01.99 Mike Freshley	57
5:07.33 Allison Smith	23			1:02.68 Richard Bassi	57
5:11.72 Christina Wong	24	MEN 35-39		1:04.50 Will Gosnold	57
5:11.98 Lee Anne Britt	24	=====		1:04.97 Douglas Buchan	55
5:14.37 Emilie Ellis	24	100 M. FREESTYLE		1:05.93 Ilkka Suvanto	55
5:15.28 Chantal Harrison	24	54.79 James Lilley	38	1:07.57 Steven Thrasher	57
5:19.54 Lisa Gorsline	23	54.88 Michael Fell	36	1:07.65 Paul Chaffee	55
5:22.09 Jill Murany	24	55.99 Kipp Dye	35	1:08.59 Gordon DeMeester	56
50 M. BUTTERFLY		56.23 Alan Voisard	38	1:08.74 Phil Whitten	55
31.34 Meagan Ivers	23	56.94 Kurt Wienants	35	100 M. BREASTSTROKE	
31.68 Sara Reese	23	56.98 Jason A Crist	36	1:18.13 Tegze Haraszti	57
31.68 Chantal Harrison	24	57.07 Bob Fish	35	1:21.31 Mike Freshley	57
32.06 K Goldthorpe	23	57.11 Gerry Rodrigues	35	1:21.83 Phil Whitten	55
32.81 Becca Tipton	22	57.16 Will Douglass	39	1:22.33 David R Gildea	55
33.07 Sara Pelosi	19	57.59 Edmund Gendreau	36	1:22.46 Kingsley Boyd	55
33.11 Miah Broussard	22	50 M. BACKSTROKE		1:24.78 Robert Lewis	55
33.40 Noortje Dekkers	21	26.95 Clay J Britt	37	1:26.90 Jim E Perilman	59
33.69 Heidi See	24	28.23 Michael Fell	36	1:27.82 Peter Fredericks	58
33.81 Elizabeth Boehm	24	29.05 Kipp Dye	35	1:29.84 Mike Laux	56
		29.70 Dale E McElhattan	36	1:30.04 Walt Reid	58
		29.94 Steve George	39		
WOMEN 50-54		31.16 Bob Fish	35	MEN 60-64	
=====		31.17 M Shepardson	38	=====	
400 M. INDIVIDUAL MEDLEY		31.29 Mike Dowhy	35	50 M. BACKSTROKE	
6:47.66 Chris S Weber	50	31.65 John Gleason	38	34.84 Bill Earley	62
6:52.16 Ginger Pierson	52	31.67 Rob Bedford	36	35.10 David McIntyre	61
7:18.21 Edith Jacobsen	51	50 M. BUTTERFLY		36.36 Jack Beattie	64
7:19.98 Catherine Brooks	50	27.06 Wally C Dicks	35	36.66 Marshall Greer	61
7:36.37 Winifred Prall	50	27.61 Rory R Lewis	36	36.98 D Barr Clayton	62
7:45.30 Trish Lewis	53	27.66 Alan Voisard	38	37.62 Jerry Glancy	60
7:56.35 Betty Veater	52	27.66 Edmund Gendreau	36	38.78 Lowell Johnson	61
8:06.23 Mary Lou Hill	50	27.72 James Lilley	38	39.02 David Painter	60
9:50.83 Carol Hall	50	28.05 Dale E McElhattan	36	39.14 Wally Dobler	64
		28.36 Brian Vaile	36	39.44 Amar Lathi	62
		28.43 Chris Roth	39		
MEN 25-29		29.02 Dick Ringer	39	MEN 60-64	
=====		29.33 Charles Greenough	35	=====	
50 M. FREESTYLE		100 M. INDIVIDUAL MEDLEY		50 M. BREASTSTROKE	
23.57 Graham Ginn	26	59.28 Clay J Britt	37	34.52 Drury Gallagher	60NV
23.83 Ed Wagner	27	1:02.38 Kurt Wienants	35	37.34 James Krueger	60
24.48 Barry Saretsky	29	1:04.57 M Shepardson	38	38.00 Amar Lathi	62
24.62 Todd Dreitzler	28	1:05.01 Steve George	39	38.44 Bob Johnston	61
24.67 Rob Butcher	26	1:05.05 Dale E McElhattan	36	38.70 Dave Daboll	62
25.01 Brian August	28	1:05.35 Edmund Gendreau	36	39.13 Milton Gee	61
25.03 Craig Crawford	28	1:05.77 Bob Fish	35	40.49 D Barr Clayton	63
25.14 Shannon Tucker Lo	26	1:06.23 Gerry Rodrigues	36	41.11 Bob Bailie	63
25.36 Paul Littlefield	28	1:06.49 Will Douglass	39	41.20 Joel Jacobs	62
25.36 Ed G Owen	27	1:06.57 Brian Vaile	36	41.55 George Thayer	62
100 M. FREESTYLE		200 M. INDIVIDUAL MEDLEY			
52.86 Graham Ginn	26	2:23.58 Bob Fish	35	MEN 80-84	
53.53 Marc Rinzler	27	2:24.18 Chris Roth	39	=====	
54.40 Barry Saretsky	29	2:25.08 Steve George	39	100 M. BUTTERFLY	
54.81 Craig Crawford	28	2:25.59 Edmund Gendreau	36	1:57.25 Paul Krup	80
54.94 Ed G Owen	27	2:25.60 Tom Latourrette	35	2:05.50 Walter Pfeiffer	84
55.37 Carlo Waldfried	29	2:27.09 Andrew D Brenan	38	200 M. BUTTERFLY	
55.37 Emmitt Smith	26	2:27.85 Brian Vaile	36	4:45.09 Walter Pfeiffer	84
55.58 Andrew Farrell	27	2:28.07 David Guthrie	38	5:17.18 William Johnston	80
55.64 Rob Butcher	26	2:28.95 Dan Knauer	38		
56.23 Nenad Rodic	28	2:30.08 Ron Marks	39		
200 M. FREESTYLE					
2:01.43 Andrew Farrell	27				
2:01.70 Nenad Rodic	28				
2:01.97 Ed Wagner	27				
2:03.26 Ron Forrest	27				
		MEN 50-54			
		=====			

FINA MASTERS WORLD RECORDS LONG-COURSE METERS

WRL LCM RECORDS AS OF 05-01-99

***** RELAY 200 M. FREE - WOMEN *****	***** RELAY 200 M. MEDLEY - WOMEN *****
100-119 HOLMES-USA 08-28-88 1:53.20 MARY HOLMES SUSAN HALFACRE BETH MAUER TISH BUCHER	100-119 HOLMES - USA 08-28-88 2:06.67 BETH MAUER DEB WALKER TISH BUCHER MARY HOLMES
120-159 LONE STAR-USA 08-24-87 1:53.05 MONICA BURK BRIGITTE HEUER L. MORRISON-CASEY JACKI HIRSTY	120-159 GOLD-USA 08-23-98 2:04.19 MARY GARDNER SUSIE GEYER TRACIE MOLL JAMIE HERRINGTON
160-199 TTEX-USA 08-23-98 1:58.76 S NEILSON-BELL JUDY LAMBERT JANN GIRARD SHARON WENCEL	160-199 LOS ALTOS-USA 05-29-94 2:12.91 CHRIS BREEDY SUSAN ROY LAURA VAL CAROLYN BOAK
200-239 LOS ALTOS-USA 05-29-94 2:08.96 LAURA VAL SUSAN ROY DELLA SEHORN CAROLYN BOAK	200-239 SAN DIEGO-USA 05-31-98 2:23.07 BETSY JORDAN CAROLINE KRATTLI BARBARA DUNBAR JACKIE MARR
240-279 DC MASTERS-USA 08-23-98 2:18.70 BARBARA FRID JOANN LEILICH BARBARA ZAREMSKI JAYNE BRUNER	240-279 DC MASTERS-USA 08-23-98 2:37.68 BARBARA FRID JOANN LEILICH JAYNE BRUNER BARBARA ZAREMSKI
280-319 NEW ENGLAND-USA 08-11-96 2:38.52 CLARA WLAKER BILLIE BURRILL PETEY SMITH DIANE REED	280-319 KAWASAKI-JPN 07-20-98 3:19.17 MIDORI KINJO AKIKO HATTORI KIYOKO KOZU MIEKO KAMOSHITA
320-359 WALNUT CRK-USA 08-13-98 3:49.73 SALLY JOY JAE HOWELL JEAN DURSTON MARY JANE REEVE	320-359 WALNUT CRK-USA 08-10-98 4:19.11 SALLY JOY JAE HOWELL JEAN DURSTON MARY JANE REEVE

***** RELAY 200 M. FREE - M E N *****	***** RELAY 200 M. MEDLEY - M E N *****
100-119 JYVASKYLAN-FIN 06-26-96 1:36.39 JANNE VIRTANEN ARI JAAKKOLA JAANE VIRTANEN TOMMY RUNDGREN	100-119 POWERS-AUS 04-07-90 1:49.84 BRAD COOPER NEIL GYNTHNER ANKER BRODERSEN ANGUS WADDELL
120-159 LONE STAR-USA 07-16-86 1:37.43 DAVID HAGUE JAMES MONTGOMERY TRIP HEDRICK BUCK SMITH	120-159 RED FISH-SUI 07-09-94 1:48.75 PATRICK FERLAND ETIENNE DAGON THEOPHILE DAVID STEFAN VOLERY
160-199 HOLMES - USA 08-11-90 1:39.27 JAMES LILLEY C. MILTENBERGER RICHARD ABRAHAMS TIMOTHY GARTON	160-199 BAYLOR/LSTR-USA 07-09-94 1:53.79 MEL NASH BERRY HAMILTON TRIPP HEDRICK DAVID HAGUE
200-239 OLYMPIC CLB-USA 06-29-97 1:45.19 STEVE CLARK ROBERT STRAND TIM BIRNIE JAMES ELDER	200-239 OLYMPIC CLB-USA 07-09-94 1:58.50 RICHARD BASSI JAMES ELDER TIM BIRNIE ROBERT STRAND
240-279 OLYMPIC CLUB 06-29-97 1:54.45 RICHARD BASSI JAMES KRUEGER BILL VAN HORN PHILLIP CHAPMAN	240-279 GOLD - USA 08-23-98 2:15.93 DAVID MCINTYRE HERB KERN JOEL BURNS CAV CAVANAUGH
280-319 SHUEI-JPN 09-15-92 2:10.18 SHUICHI MURAYAMA JUZO TSUBOTA ISAMU TAMURA KEIJIRO NAKAMURA	280-319 MAVERICK - USA 08-18-97 2:33.50 PAUL HUTINGER ROBERT MACDONALD JOSEPH KURTZMAN ALAN MALONEY
320-359 COAST - USA 08-11-96 2:35.13 LOUIS GIBERSON WOODROW BOWERSOCK WALTER PFEIFFER R CHRISTIANS	320-359 COAST - USA 08-13-95 3:06.15 BRION WINSHIP WALTER PFEIFFER ROBERT CHRISTIANS WOODROW BOWERSOCK

***** RELAY 200 M. FREE - MIXED *****	***** RELAY 200 M. MEDLEY - MIXED *****
100-119 HOLMES - USA - -88 1:43.89	100-119 HOLMES - USA 08-28-88 1:56.58 BETH MAUER BRUCE HOWELL SAM SEIPLE MARY HOLMES
120-159 GOLD - USA 08-23-98 1:42.65 TODD PACE TRACIE MOLL JAMIE HERRINGTON KURT WIENANTS	120-159 GOLD-USA 08-23-98 1:57.30 CRAIG CRAWFORD SETH VAN NEERDEN TRACIE MOLL JAMIE HERRINGTON
160-199 ROCKY MT.-USA 08-23-98 1:45.83 KATHY GARNIER LAUREEN WELTING RICHARD ABRAHAMS JAMES LILLEY	160-199 TTEX-USA 08-23-98 2:01.22 SHARON WENCEL DAVID GUTHRIE BRUCE WENCEL S NEILSON-BELL
200-239 LOS ALTOS - USA 07-09-94 1:55.50 EDWARD CAZALET LAURA VAL ARLENE PROEBSTING ROBERT PROEBSTING	200-239 TAM - USA 08-23-98 2:08.56 RICHARD BURNS KENNETH FROST LAURA VAL NANCY RIDOUT
240-279 SAN DIEGO-USA 06-29-97 2:07.26 DONALD BAKER JEANNE LITTLE JACKIE MARR BILL EARLEY	240-279 OLYMPIC CLUB 06-29-97 2:27.14 MARGERY MEYER DANIELLE OGIER STEVE CLARK PHILLIP CHAPMAN
280-319 SOLK HELLAS-SWE 06-23-98 2:27.21 BRITT GRILLI NILS FERM PETER BERGEGREN KERSTIN GJORES	280-319 HOLMES - USA - -88 2:37.98
320-359 DC MASTERS-USA 08-01-93 3:03.15 NANCY CLARK ANNE WALKER KELLEY LEMMON DAVID MCAFEE	320-359 RIO MASTERS-BRA 11-26-95 3:54.87 ALBERTO MIBIELLI LUZIA CARACCILO MARIA LENK GASTAO FIGUEIREDO

FINA MASTERS WORLD RECORDS LONG-COURSE METERS

***** M E N *****			***** 85-89 *****			***** W O M E N *****		
35.77	08-10-98	USA	WOODROW BOWERSOCK	50	M. FREE	UME WADA	JPN	06-09-96 49.84
1:33.49	08-11-98	USA	WOODROW BOWERSOCK	100	M. FREE	UME WADA	JPN	07-21-97 2:00.66
3:48.91	10-01-88	USA	GUS LANGNER	200	M. FREE	UME WADA	JPN	12-01-96 4:26.52
8:14.50	08-28-88	USA	GUS LANGNER	400	M. FREE	UME WADA	JPN	06-08-97 9:31.21
17:11.21	10-15-88	USA	GUS LANGNER	800	M. FREE	MAXINE MERLINO	USA	08-10-97 20:11.43
33:08.42	08-20-89	USA	GUS LANGNER	1500	M. FREE	MAXINE MERLINO	USA	08-10-97 38:20.39
47.70	10-25-97	GER	R REINSTADTLER	50	M. BACK	AILEEN SOULE	USA	08-18-91 58.42
1:53.67	09-03-97	GER	R REINSTADTLER	100	M. BACK	AILEEN SOULE	USA	06-09-91 2:13.13
4:12.45	04-26-97	GER	R REINSTADTLER	200	M. BACK	AILEEN SOULE	USA	06-09-91 4:47.82
51.52	08-27-95	GER	KARL WITTENBERG	50	M. BRST	MARTI GOGNIAT	USA	07-27-96 1:09.85
2:10.64	07-21-97	JPN	MITSUO SHIMO	100	M. BRST	DOROTHY WESTON	GBR	04-19-98 2:34.97
4:36.86	07-28-96	USA	HAROLD PERRY	200	M. BRST	EMMI PAULI	GER	03-29-98 5:36.62
57.93	08-27-95	USA	JESSE COON	50	M. FLY	MAXINE MERLINO	USA	07-26-97 1:13.84
2:30.73	06-25-96	USA	JESSE COON	100	M. FLY	DOROTHY WESTON	GBR	04-19-98 2:45.28
5:24.28	05-07-93	AUS	FRANK GRIFFITHS	200	M. FLY	MAXINE MERLINO	USA	08-09-98 6:35.26
				100	M. I.M.			
4:40.15	05-07-93	AUS	FRANK GRIFFITHS	200	M. I.M.	MAXINE MERLINO	USA	08-10-97 5:27.56
10:28.43	03-25-94	AUS	FRANK GRIFFITHS	400	M. I.M.	JEWEL COOKE	USA	07-26-97 11:21.06
***** M E N *****			***** 90-94 *****			***** W O M E N *****		
48.70	08-08-93	USA	GUS LANGNER	50	M. FREE	AILEEN SOULE	USA	08-25-96 55.76
1:57.91	08-22-93	USA	GUS LANGNER	100	M. FREE	AILEEN SOULE	USA	08-25-96 2:19.62
4:28.34	08-22-93	USA	GUS LANGNER	200	M. FREE	AILEEN SOULE	USA	08-25-96 5:21.55
9:40.04	03-27-97	AUS	ALFREDO CHERCHI	400	M. FREE	AILEEN SOULE	USA	08-16-97 11:45.66
20:13.74	08-01-93	USA	GUS LANGNER	800	M. FREE	ANNA BAUSCHER	USA	08-28-94 30:55.09
36:47.02	08-22-93	USA	GUS LANGNER	1500	M. FREE			
1:03.20	07-26-98	USA	JIM PENFIELD	50	M. BACK	AILEEN SOULE	USA	08-25-96 1:03.49
2:30.11	07-26-98	USA	JIM PENFIELD	100	M. BACK	AILEEN SOULE	USA	08-25-96 2:23.23
5:36.88	06-11-95	USA	PETER JURCZYK	200	M. BACK	AILEEN SOULE	USA	06-29-97 5:29.07
1:09.65	08-29-98	GER	HANS PAUL	50	M. BRST	YOSHI KUCHIBA	JPN	09-27-98 1:35.23
2:39.02	08-28-98	GER	HANS PAUL	100	M. BRST	DEL ROWLEY	AUS	03-03-96 5:06.09
6:24.54	08-01-93	USA	GUS LANGNER	200	M. BRST	DEL ROWLEY	AUS	10-22-95 10:39.50
1:26.07	07-26-98	USA	JIM PENFIELD	50	M. FLY	ANNA BAUSCHER	USA	08-28-94 4:57.25
				100	M. FLY			
				200	M. FLY			
				100	M. I.M.			
6:59.87	06-11-95	USA	PETER JURCZYK	200	M. I.M.	ANNA BAUSCHER	USA	08-28-94 12:10.93
				400	M. I.M.			
***** M E N *****			***** 95-99 *****			***** W O M E N *****		
55.88	08-02-98	USA	GUS LANGNER	50	M. FREE	MARY M ANDERSON	CAN	05-16-98 1:55.57
2:29.32	08-23-98	USA	GUS LANGNER	100	M. FREE	MARY M ANDERSON	CAN	05-17-98 4:06.70
5:13.23	08-23-98	USA	GUS LANGNER	200	M. FREE			
11:30.53	08-23-98	USA	GUS LANGNER	400	M. FREE			
22:28.28	08-23-98	USA	GUS LANGNER	800	M. FREE			
				1500	M. FREE			
1:56.25	08-02-98	USA	GUS LANGNER	50	M. BACK	MARY M ANDERSON	CAN	05-18-98 1:57.79
				100	M. BACK	MARY M ANDERSON	CAN	05-17-98 4:16.79
				200	M. BACK			
1:26.61	08-23-98	USA	GUS LANGNER	50	M. BRST			
3:38.45	08-02-98	USA	GUS LANGNER	100	M. BRST			
7:37.17	08-02-98	USA	GUS LANGNER	200	M. BRST			
				50	M. FLY			
				100	M. FLY			
				200	M. FLY			
				100	M. I.M.			
				200	M. I.M.			
				400	M. I.M.			
***** M E N *****			***** 100-104 *****			***** W O M E N *****		
2:05.49	09-18-94	USA	TOM LANE	50	M. FREE	MARY MAINA	AUS	10-03-94 5:10.84
4:25.98	09-10-95	USA	TOM LANE	100	M. FREE			
				200	M. FREE			
				400	M. FREE			
				800	M. FREE			
				1500	M. FREE			
2:05.54	09-10-95	USA	TOM LANE	50	M. BACK			
4:57.01	09-18-94	USA	TOM LANE	100	M. BACK			
				200	M. BACK			
				50	M. BRST			
				100	M. BRST			
				200	M. BRST			
				50	M. FLY			
				100	M. FLY			
				200	M. FLY			
				100	M. I.M.			
				200	M. I.M.			
				400	M. I.M.			

FINA MASTERS WORLD RECORDS LONG-COURSE METERS

***** M E N *****			***** 65-69 *****			***** W O M E N *****		
28.04	08-21-98	USA	RONALD JOHNSON	50 M.	FREE	GAIL ROPER	USA	08-25-96 34.17
1:03.39	06-23-96	ESP	ROBERTO ALBERICHE	100 M.	FREE	JANE ASHER	GBR	03-24-96 1:15.29
2:21.74	06-26-96	ESP	ROBERTO ALBERICHE	200 M.	FREE	CLARA WALKER	USA	07-05-92 2:48.51
5:03.36	08-25-96	USA	GRAHAM JOHNSTON	400 M.	FREE	LAVELLE STOINOFF	USA	08-23-98 5:54.90
10:29.26	06-29-97	USA	GRAHAM JOHNSTON	800 M.	FREE	LAVELLE STOINOFF	USA	08-23-98 12:23.32
20:16.54	08-25-96	USA	GRAHAM JOHNSTON	1500 M.	FREE	LAVELLE STOINOFF	USA	07-26-98 23:42.01
35.13	07-20-98	JPN	S. SEKIKAWA	50 M.	BACK	CLARA WALKER	USA	08-23-92 39.85
1:17.68	08-23-98	USA	YOSHI OYANAWA	100 M.	BACK	DORIS STEADMAN	USA	08-20-90 1:31.58
2:51.19	02-28-98	JPN	S. SEKIKAWA	200 M.	BACK	LAVELLE STOINOFF	USA	08-23-98 3:16.02
36.42	08-23-98	USA	MANUEL SANGJILY	50 M.	BRST	EDITH BOEHM	GER	07-09-94 43.42
1:24.16	08-23-98	USA	MANUEL SANGJILY	100 M.	BRST	A LEENE-RODAHL	NZL	06-21-98 1:39.51
3:10.23	08-02-98	USA	RONALD JOHNSON	200 M.	BRST	FLORA CONNOLLY	GBR	05-31-98 3:30.95
30.81	08-13-98	USA	RONALD JOHNSON	50 M.	FLY	GAIL ROPER	USA	07-28-96 39.18
1:16.85	08-14-98	USA	RONALD JOHNSON	100 M.	FLY	GAIL ROPER	USA	07-28-96 1:36.68
3:08.79	07-12-91	USA	JOSEPH KURTZMAN	200 M.	FLY	FLORA CONNOLLY	GBR	05-29-98 3:33.04
				100 M.	I.M.			
2:49.71	06-24-96	ESP	ROBERTO ALBERICHE	200 M.	I.M.	JANE ASHER	GBR	03-24-96 3:20.26
6:05.15	06-22-96	ESP	ROBERTO ALBERICHE	400 M.	I.M.	FLORA CONNOLLY	GBR	05-30-98 7:06.75
***** M E N *****			***** 70-74 *****			***** W O M E N *****		
29.35	08-26-84	USA	KELLEY LEMMON	50 M.	FREE	CLARA WALKER	USA	08-11-96 36.13
1:10.16	08-13-95	USA	FRANK PIEMME	100 M.	FREE	CLARA WALKER	USA	08-11-96 1:21.57
2:37.00	06-23-98	USA	WILLIAM PHILLIPS	200 M.	FREE	CLARA WALKER	USA	08-10-96 3:04.56
5:40.41	06-20-98	USA	WILLIAM PHILLIPS	400 M.	FREE	CLARA WALKER	USA	08-10-96 6:33.15
12:03.73	06-17-95	USA	FRANK PIEMME	800 M.	FREE	JUNE KRAUSER	USA	06-28-96 13:15.45
22:59.14	06-28-98	USA	ROGER FRANKS	1500 M.	FREE	JUNE KRAUSER	USA	06-08-96 25:11.23
37.10	07-30-95	USA	PAUL HUTINGER	50 M.	BACK	DORIS STEADMAN	USA	06-26-96 42.29
1:24.14	07-30-95	USA	PAUL HUTINGER	100 M.	BACK	DORIS STEADMAN	USA	08-27-95 1:35.11
3:04.42	08-18-97	USA	ROGER FRANKS	200 M.	BACK	DORIS STEADMAN	USA	08-27-95 3:28.69
39.15	07-16-95	JPN	TOSHIO TAJIMA	50 M.	BRST	EDITH BOEHM	GER	06-22-98 45.11
1:31.05	08-25-96	GER	ROBERT PFERSDORFT	100 M.	BRST	EDITH BOEHM	GER	06-21-98 1:44.09
3:26.27	06-23-96	GER	KARL-HEINZ KNOPS	200 M.	BRST	ERIKA LANGE	GER	06-20-98 3:56.03
33.79	06-22-96	USA	FRANK PIEMME	50 M.	FLY	JUNE KRAUSER	USA	06-08-96 43.62
1:24.84	06-25-96	USA	JOSEPH KURTZMAN	100 M.	FLY	JUNE KRAUSER	USA	06-25-96 1:40.85
3:22.01	09-04-97	GER	VALENTIN WEBER	200 M.	FLY	JUNE KRAUSER	USA	06-27-96 3:39.91
				100 M.	I.M.			
3:06.43	06-24-96	ESP	JESUS DOMINGUEZ	200 M.	I.M.	JUNE KRAUSER	USA	06-08-96 3:33.75
6:52.07	07-22-95	USA	FRANK PIEMME	400 M.	I.M.	JUNE KRAUSER	USA	06-22-96 7:30.91
***** M E N *****			***** 75-79 *****			***** W O M E N *****		
32.07	07-20-98	JPN	KEIJIRO NAKAMURA	50 M.	FREE	J DRAKE-BROCKMAN	AUS	04-06-96 38.22
1:13.84	05-28-95	USA	RAY TAFT	100 M.	FREE	J DRAKE-BROCKMAN	AUS	06-23-96 1:30.42
2:51.62	05-28-95	USA	RAY TAFT	200 M.	FREE	MARGERY MEYER	USA	06-29-97 3:19.07
6:17.36	07-14-96	JPN	DOMEI SUZUKI	400 M.	FREE	MARGERY MEYER	USA	06-20-98 7:16.82
12:58.14	06-10-95	USA	RAY TAFT	800 M.	FREE	MARGERY MEYER	USA	06-29-97 14:32.25
24:51.78	10-22-95	JPN	DOMEI SUZUKI	1500 M.	FREE	MARGERY MEYER	USA	07-26-98 28:38.34
37.51	07-20-98	JPN	KEIJIRO NAKAMURA	50 M.	BACK	WILLY VAN RYSEL	GBR	- -91 46.64
1:26.00	07-20-98	JPN	KEIJIRO NAKAMURA	100 M.	BACK	BUNNY CEDERLUND	USA	08-18-97 1:46.70
3:10.64	09-27-98	JPN	KEIJIRO NAKAMURA	200 M.	BACK	J DRAKE-BROCKMAN	AUS	06-25-96 3:57.14
41.78	03-13-99	GER	ROBERT PFERSDORFF	50 M.	BRST	REGAN KENNER	USA	08-23-98 52.03
1:35.99	03-14-99	GER	ROBERT PFERSDORFF	100 M.	BRST	REGAN KENNER	USA	08-23-98 1:58.81
3:34.86	07-09-94	ITA	AUGUSTO ROMANO	200 M.	BRST	REGAN KENNER	USA	08-23-98 4:18.18
37.57	07-31-94	USA	RAY TAFT	50 M.	FLY	CATHERINE KERR	CAN	06-22-96 53.84
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.			
3:24.38	11-13-94	USA	RAY TAFT	200 M.	I.M.	CATHERINE KERR	CAN	05-18-96 4:12.90
7:21.75	05-28-95	USA	RAY TAFT	400 M.	I.M.	MAXINE MERLINO	USA	08-09-87 9:11.23
***** M E N *****			***** 80-84 *****			***** W O M E N *****		
33.88	08-08-93	USA	WOODROW BOWERSOCK	50 M.	FREE	HATSUHO SUGAYA	JPN	09-25-94 41.31
1:19.28	07-16-95	JPN	HIKOJI UEKI	100 M.	FREE	UME WADA	JPN	- -91 1:39.30
3:03.45	07-16-95	JPN	HIKOJI UEKI	200 M.	FREE	UME WADA	JPN	- -92 3:44.00
6:40.63	07-16-95	JPN	HIKOJI UEKI	400 M.	FREE	MARJORIE SHARPE	USA	10-11-97 7:56.31
13:50.05	07-09-94	CAN	NORBERT ARTUS	800 M.	FREE	RITA SIMONTON	USA	08-15-98 16:05.85
28:13.09	07-26-98	USA	ALDO DA ROSA	1500 M.	FREE	RITA SIMONTON	USA	07-11-98 30:54.56
40.71	09-27-98	JPN	SHOICHI SAKOMOTO	50 M.	BACK	MYRTLE WRIGHT	AUS	- -89 53.73
1:36.95	09-27-98	JPN	GORO KOBAYASHI	100 M.	BACK	EDITH THEIN	ISR	08-23-98 2:00.39
3:42.35	06-22-98	JPN	GORO KOBAYASHI	200 M.	BACK	EDITH THEIN	ISR	08-23-98 4:12.86
43.62	07-20-98	JPN	Y MIYAMOTO	50 M.	BRST	DOROTHY WESTON	GBR	06-06-93 59.60
1:45.24	08-24-97	JPN	Y MIYAMOTO	100 M.	BRST	DOROTHY WESTON	GBR	06-06-93 2:17.08
3:55.37	05-01-98	ITA	AUGUSTO ROMANO	200 M.	BRST	DOROTHY WESTON	GBR	06-06-93 5:01.36
42.22	07-20-98	JPN	Y MIYAMOTO	50 M.	FLY	MARIA LENK	BRA	04-23-95 1:01.41
1:52.37	06-25-96	USA	ANTON CERER	100 M.	FLY	JEAN DURSTON	USA	07-31-94 2:27.91
4:11.09	07-19-98	USA	ANTON CERER	200 M.	FLY	JEAN DURSTON	USA	07-31-94 5:24.52
				100 M.	I.M.			
3:43.82	07-11-98	USA	ALDO DA ROSA	200 M.	I.M.	MARIA LENK ZIGLER	USA	08-27-95 4:41.09
8:10.67	07-27-97	USA	ALDO DA ROSA	400 M.	I.M.	MAXINE MERLINO	USA	08-23-92 10:05.13

FINA MASTERS WORLD RECORDS LONG-COURSE METERS

***** M E N *****		***** 45-49 *****		***** W O M E N *****	
25.18	07-09-94	RSA	TERRY DOWNES 50 M. FREE	JACKI HIRSTY	USA 08-23-98 28.30
55.66	07-09-94	RSA	TERRY DOWNES 100 M. FREE	LAURA VAL	USA 05-20-96 1:02.42
2:03.71	05-19-96	USA	TIM BRODERICK 200 M. FREE	LAURA VAL	USA 08-23-98 2:17.12
4:24.37	07-28-96	USA	TIM BRODERICK 400 M. FREE	LAURA VAL	USA 08-10-97 4:56.06
9:13.29	08-23-98	USA	TODD BRYAN 800 M. FREE	LAURA VAL	USA 06-13-98 10:08.23
17:31.23	08-23-98	USA	TODD BRYAN 1500 M. FREE	LAURA VAL	USA 07-26-98 19:26.97
30.24	03-27-99	NZL	DIX OZIER 50 M. BACK	LAURA VAL	USA 07-27-97 32.93
1:04.69	06-24-98	GBR	EDDIE RIACH 100 M. BACK	LAURA VAL	USA 07-27-97 1:12.70
2:22.45	06-22-98	GBR	EDDIE RIACH 200 M. BACK	CECILIA MCCLOSKEY	USA 08-27-95 2:42.60
31.54	08-23-98	USA	C MILTENBERGER 50 M. BRST	SUSAN ROY	USA 05-29-94 36.97
1:12.38	03-28-97	RSA	TIMOTHY SHEAD 100 M. BRST	SUSAN ROY	USA 05-29-94 1:22.27
2:41.02	07-09-94	GER	GERHARD PREINER 200 M. BRST	ULRIKE URBANIAK	GER 04-25-98 2:57.38
27.12	08-23-92	USA	DAN THOMPSON 50 M. FLY	ARDETH MUELLER	USA 08-24-87 30.74
1:02.47	06-25-96	USA	BOO GRANER GALLAS 100 M. FLY	LAURA VAL	USA 08-23-98 1:08.02
2:21.84	06-27-96	USA	BOO GRANER GALLAS 200 M. FLY	LAURA VAL	USA 08-23-98 2:31.37
			100 M. I.M.		
2:22.06	08-11-96	USA	TIM BRODERICK 200 M. I.M.	DANIELLE OGIER	USA 08-18-97 2:40.28
5:09.11	06-21-98	GBR	EDDIE RIACH 400 M. I.M.	DANIELLE OGIER	USA 06-29-97 5:45.85
***** M E N *****		***** 50-54 *****		***** W O M E N *****	
24.60	08-23-98	USA	RICHARD ABRAHAMS 50 M. FREE	ARDETH MUELLER	USA 08-22-93 29.33
56.98	08-23-98	USA	RICHARD ABRAHAMS 100 M. FREE	CAROL FELLOWS	GBR 04-27-96 1:07.34
2:07.17	08-23-98	USA	FRED SCHLICHER 200 M. FREE	ARDETH MUELLER	USA 08-22-93 2:29.22
4:32.51	08-23-98	USA	R TOD SPIEKER 400 M. FREE	DIANNE FOSTER	CAN 03-01-98 5:12.02
9:27.52	08-23-98	USA	R TOD SPIEKER 800 M. FREE	DIANNE FOSTER	CAN 03-01-98 10:36.52
18:04.63	07-26-98	USA	R TOD SPIEKER 1500 M. FREE	ARDETH MUELLER	USA 07-28-91 21:02.46
30.63	07-06-97	USA	HUGH WILDER 50 M. BACK	SATOKO TAKEUJI	JPN 09-15-92 34.87
1:07.16	07-06-97	USA	HUGH WILDER 100 M. BACK	SATOKO TAKEUJI	JPN 07-16-95 1:18.86
2:27.01	06-22-98	USA	R TOD SPIEKER 200 M. BACK	SATOKO TAKEUJI	JPN 09-15-92 2:51.11
32.16	08-23-98	USA	ROBERT STRAND 50 M. BRST	JAN MACLEOD	AUS 05-03-97 38.04
1:11.90	08-23-98	USA	ROBERT STRAND 100 M. BRST	SHIRLEY TURNER	RSA 04-03-98 1:28.05
2:40.57	05-19-96	USA	ROBERT STRAND 200 M. BRST	SHIRLEY TURNER	RSA 03-07-98 3:09.79
27.13	08-23-98	USA	RICHARD ABRAHAMS 50 M. FLY	ARDETH MUELLER	USA 08-22-93 31.69
1:02.25	08-23-98	USA	RICHARD ABRAHAMS 100 M. FLY	ARDETH MUELLER	USA 08-22-93 1:13.86
2:26.17	06-29-97	USA	BOO GRANER-GALLAS 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.	BRIGITTE MERTEN	GER 06-24-96 2:52.11
5:20.78	06-22-96	USA	JOHN CALVERT 400 M. I.M.	ARDETH MUELLER	USA 07-05-92 6:12.08
***** M E N *****		***** 55-59 *****		***** W O M E N *****	
26.33	06-24-98	USA	STEVE CLARK 50 M. FREE	ARDETH MUELLER	USA 08-10-97 30.83
58.41	06-19-98	USA	TIMOTHY GARTON 100 M. FREE	YOSHIKO OSAKI	JPN 07-18-93 1:11.01
2:15.35	08-14-98	USA	KEEFE LODWIG 200 M. FREE	ARDETH MUELLER	USA 07-19-97 2:34.88
4:50.41	04-25-98	GBR	SANDY GALLETTY 400 M. FREE	ARDETH MUELLER	USA 07-19-97 5:25.59
10:03.22	06-25-98	GBR	SANDY GALLETTY 800 M. FREE	ARDETH MUELLER	USA 08-10-97 11:15.07
19:09.48	06-08-97	GBR	SANDY GALLETTY 1500 M. FREE	ARDETH MUELLER	USA 08-10-97 21:09.91
31.52	07-26-98	USA	ROBERT SMITH 50 M. BACK	SATOKO TAKEUJI	JPN 06-23-98 36.08
1:11.39	08-23-98	USA	RICHARD BURNS 100 M. BACK	SATOKO TAKEUJI	JPN 07-21-97 1:19.65
2:37.16	09-03-94	NZL	BARRY YOUNG 200 M. BACK	SATOKO TAKEUJI	JPN 07-21-97 2:56.13
33.03	07-18-93	JPN	HIROSHI KOTEGAWA 50 M. BRST	MONIKA SENFTLEBEN	GER 01-10-98 39.43
1:17.87	08-28-88	USA	JOHN KORTHEUER 100 M. BRST	HANNELORE ROESE	GER 06-21-98 1:29.26
2:50.44	06-29-97	USA	WILLIAM GONZALEZ 200 M. BRST	HANNELORE ROESE	GER 04-25-98 3:14.40
28.22	08-13-98	USA	KEEFE LODWIG 50 M. FLY	GAIL ROPER	USA 08-20-85 35.29
1:06.88	08-23-98	USA	ROBERT POILETMAN 100 M. FLY	ARDETH MUELLER	USA 08-10-97 1:21.91
2:33.48	08-23-98	USA	ROBERT POILETMAN 200 M. FLY	HANNELORE ROESE	GER 06-24-98 3:14.39
			100 M. I.M.		
2:32.96	06-19-98	USA	TIMOTHY GARTON 200 M. I.M.	YOSHIKO OSAKI	JPN 10-01-95 2:59.15
5:36.39	06-29-97	USA	WILLIAM GONZALEZ 400 M. I.M.	YOSHIKO OSAKI	JPN 10-03-93 6:18.94
***** M E N *****		***** 60-64 *****		***** W O M E N *****	
26.70	08-10-98	USA	JEFF FARRELL 50 M. FREE	JAYNE BRUNER	USA 08-28-94 33.11
1:00.11	08-11-98	USA	JEFF FARRELL 100 M. FREE	YOSHIKO OSAKI	JPN 07-20-98 1:14.12
2:20.54	08-14-98	USA	JEFF FARRELL 200 M. FREE	LAVELLE STOINOFF	USA 07-11-93 2:43.83
5:04.56	07-30-95	USA	GRAHAM JOHNSTON 400 M. FREE	YOSHIKO OSAKI	JPN 07-20-98 5:46.79
10:34.02	07-30-95	USA	GRAHAM JOHNSTON 800 M. FREE	LAVELLE STOINOFF	USA 05-29-94 12:01.79
20:04.73	07-30-95	USA	GRAHAM JOHNSTON 1500 M. FREE	LAVELLE STOINOFF	USA 05-28-95 22:50.81
33.13	08-28-94	USA	YOSHI OYAKAWA 50 M. BACK	BETSY JORDAN	USA 06-29-97 38.76
1:14.53	03-28-99	NZL	BARRY YOUNG 100 M. BACK	BETSY JORDAN	USA 06-29-97 1:24.45
2:42.56	03-27-99	NZL	BARRY YOUNG 200 M. BACK	BETSY JORDAN	USA 06-29-97 3:06.23
34.59	09-24-95	JPN	AKIO SUGIYAMA 50 M. BRST	JAYNE BRUNER	USA 08-23-98 41.43
1:20.56	06-24-96	GBR	THOMAS WALKER 100 M. BRST	JAYNE BRUNER	USA 08-25-96 1:34.12
2:58.37	06-23-96	GBR	THOMAS WALKER 200 M. BRST	MASAYO AZUMA	JPN 09-29-96 3:24.38
30.35	07-30-95	USA	BOB BAILIE 50 M. FLY	YOSHIKO OSAKI	JPN 09-27-98 37.39
1:14.25	08-14-98	USA	BERT PETERSEN 100 M. FLY	YOSHIKO OSAKI	JPN 06-22-98 1:28.65
2:56.96	04-21-97	BRA	LUIS RICARDO SIMI 200 M. FLY	FLORA CONNOLLY	GBR 06-05-94 3:26.76
			100 M. I.M.		
2:43.81	03-27-99	NZL	BARRY YOUNG 200 M. I.M.	YOSHIKO OSAKI	JPN 10-04-98 3:05.96
6:04.99	08-18-91	USA	GRAHAM JOHNSTON 400 M. I.M.	YOSHIKO OSAKI	JPN 11-08-98 6:50.29

FINA MASTERS WORLD RECORDS LONG-COURSE METERS

WRL LCM RECORDS AS OF 05-01-99													
***** M E N *****							***** W O M E N *****						
***** 25-29 *****							***** 25-29 *****						
22.59	08-28-83	USA	KEVIN DEFORREST	50	M.	FREE	ALISON SHEPPARD	GBR	05-31-98	26.20			
51.25	08-14-81	USA	JIM MONTGOMERY	100	M.	FREE	ALISON SHEPPARD	GBR	05-30-98	58.22			
1:52.17	08-23-92	USA	JOHN KEPPELER	200	M.	FREE	SARA SHAND	USA	- -89	2:07.11			
4:03.63	06-29-97	USA	ALEX KOSTICH	400	M.	FREE	SARA SHAND	USA	- -89	4:27.53			
8:24.67	06-29-97	USA	ALEX KOSTICH	800	M.	FREE	EVA MORTENSEN	GBR	04-26-96	9:17.09			
16:13.89	08-10-97	USA	ALEX KOSTICH	1500	M.	FREE	AMY POPE	USA	08-28-88	17:38.78			
26.68	06-05-94	GBR	MARTIN HARRIS	50	M.	BACK	KAORU ONO	JPN	09-27-98	30.73			
57.45	04-13-97	NZL	JON WINTER	100	M.	BACK	ALISON SHEPPARD	GBR	05-29-98	1:05.02			
2:05.86	06-05-94	GBR	MARTIN HARRIS	200	M.	BACK	DIANE GRANER	USA	08-20-89	2:19.97			
28.68	06-25-96	GBR	JAMES PARRACK	50	M.	BRST	S. SEMINATORE	ITA	- -89	32.01			
1:04.11	06-24-96	GBR	JAMES PARRACK	100	M.	BRST	CHARLOTTE MUSTARD	GBR	06-24-96	1:15.31			
2:24.57	10-31-98	ECU	ABRAHAM SOLANO	200	M.	BRST	SHARRON DAVIES	GBR	- -90	2:42.02			
24.88	03-29-98	NZL	JON WINTER	50	M.	FLY	MARJA PARSSINEN	FIN	10-26-97	28.09			
56.34	04-28-84	USA	MICHAEL BOTTOM	100	M.	FLY	ROSEMARIE SEAMAN	USA	- -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.							
2:07.00	07-09-94	FRA	NICOLAS GRANGER	200	M.	I.M.	SHARRON DAVIES	GBR	- -90	2:22.00			
4:31.47	07-09-94	FRA	NICOLAS GRANGER	400	M.	I.M.	SHARRON DAVIES	GBR	- -90	5:05.29			
***** M E N *****							***** W O M E N *****						
***** 30-34 *****							***** 30-34 *****						
23.21	11-24-90	USA	ROWDY GAINES	50	M.	FREE	S. NEILSON-BELL	USA	08-28-88	26.37			
51.50	07-14-91	USA	ROWDY GAINES	100	M.	FREE	S. NEILSON-BELL	USA	10-15-88	58.09			
1:54.04	07-13-90	USA	ROWDY GAINES	200	M.	FREE	BETH KNIGHT	USA	08-20-89	2:07.84			
4:07.04	11-14-93	USA	ROWDY GAINES	400	M.	FREE	K PIPES-NEILSEN	USA	08-11-96	4:28.76			
8:40.19	11-14-93	USA	ROWDY GAINES	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	05-19-96	17:38.70			
27.26	07-09-94	USA	SEAN MURPHY	50	M.	BACK	D GRANER GALLAS	USA	06-26-96	30.94			
58.66	07-09-94	USA	SEAN MURPHY	100	M.	BACK	D GRANER GALLAS	USA	06-27-96	1:05.42			
2:05.62	07-09-94	USA	SEAN MURPHY	200	M.	BACK	K PIPES-NEILSEN	USA	08-11-96	2:18.98			
29.42	07-05-92	USA	DAVID GUTHRIE	50	M.	BRST	M. MOHMANN	GBR	- -88	34.56			
1:05.64	08-23-98	USA	SETH VAN NEERDEN	100	M.	BRST	M. MOHMANN	GBR	- -88	1:14.52			
2:24.06	08-18-91	USA	DAVID LUNDBERG	200	M.	BRST	HIDEKA KOSHIMIZU	JPN	07-16-95	2:46.81			
25.31	10-15-88	USA	MIKE BOTTOM	50	M.	FLY	TRACIE MOLL	USA	08-18-97	29.07			
56.64	10-15-88	USA	MIKE BOTTOM	100	M.	FLY	PASCALE VERBAUWEN	BEL	06-25-96	1:04.80			
2:03.85	08-04-95	USA	BOBBY PATTEN	200	M.	FLY	K PIPES-NEILSEN	USA	08-11-96	2:20.12			
				100	M.	I.M.							
2:09.69	08-18-91	USA	DAVID LUNDBURG	200	M.	I.M.	KARLYN PIPES	USA	05-26-96	2:25.68			
4:40.22	07-09-94	USA	SEAN MURPHY	400	M.	I.M.	HIDEKA KOSHIMIZU	JPN	10-22-95	5:05.05			
***** M E N *****							***** W O M E N *****						
***** 35-39 *****							***** 35-39 *****						
23.20	07-17-94	JPN	ROWDY GAINES	50	M.	FREE	TRACIE MOLL	USA	08-23-98	26.75			
51.49	07-16-95	USA	ROWDY GAINES	100	M.	FREE	TRACIE MOLL	USA	08-23-98	58.38			
1:55.36	07-17-94	JPN	ROWDY GAINES	200	M.	FREE	K PIPES-NEILSEN	USA	08-10-97	2:06.94			
4:07.64	07-16-95	USA	ROWDY GAINES	400	M.	FREE	K PIPES-NEILSEN	USA	08-10-97	4:26.17			
8:38.73	11-12-95	USA	ROWDY GAINES	800	M.	FREE	K PIPES-NEILSEN	USA	08-16-97	9:16.20			
16:37.34	11-13-94	USA	ROWDY GAINES	1500	M.	FREE	PENNY BOND	AUS	04-11-98	17:55.34			
28.04	08-26-78	USA	THOMPSON MANN	50	M.	BACK	K PIPES-NEILSEN	USA	06-29-97	31.83			
1:00.95	08-22-93	USA	WILLIAM SPECHT	100	M.	BACK	K PIPES-NEILSEN	USA	08-09-98	1:06.29			
2:13.83	07-29-90	USA	TOM WOLF	200	M.	BACK	K PIPES-NEILSEN	USA	08-10-97	2:18.20			
29.09	08-23-98	USA	WALLY DICKS	50	M.	BRST	L WETZEL-OSBORNE	USA	08-20-89	34.41			
1:05.03	08-23-98	USA	WALLY DICKS	100	M.	BRST	L WETZEL-OSBORNE	USA	08-20-90	1:17.44			
2:24.37	08-04-95	USA	DAVID GUTHRIE	200	M.	BRST	DAGMAR HILBIG	GER	04-28-96	2:50.66			
25.93	08-01-93	USA	MICHAEL BOTTOM	50	M.	FLY	TRACIE MOLL	USA	08-23-98	28.77			
56.60	06-25-96	USA	JEFF STUART	100	M.	FLY	TRACIE MOLL	USA	08-23-98	1:03.93			
2:06.74	06-26-96	USA	JEFF STUART	200	M.	FLY	K PIPES-NEILSEN	USA	08-10-97	2:20.21			
				100	M.	I.M.							
2:14.94	06-19-98	POL	DARIUSZ WOLNY	200	M.	I.M.	K PIPES-NEILSEN	USA	06-29-97	2:25.31			
4:46.79	06-21-98	POL	DARIUSZ WOLNY	400	M.	I.M.	K PIPES-NEILSEN	USA	06-29-97	5:07.21			
***** M E N *****							***** W O M E N *****						
***** 40-44 *****							***** 40-44 *****						
24.25	07-20-98	JPN	BRENT BARNES	50	M.	FREE	S NEILSON-BELL	USA	08-25-96	27.39			
53.78	08-23-98	USA	JACK GROSELLE	100	M.	FREE	S NEILSON-BELL	USA	08-25-96	1:00.63			
2:01.16	07-30-95	USA	HESS YNTEMA	200	M.	FREE	LAURA VAL	USA	07-09-94	2:14.97			
4:20.37	08-11-96	USA	HESS YNTEMA	400	M.	FREE	S HEIM-BOWEN	USA	08-23-98	4:42.71			
8:57.66	07-30-95	USA	HESS YNTEMA	800	M.	FREE	S HEIM-BOWEN	USA	08-23-98	9:37.13			
16:58.52	07-30-95	USA	HESS YNTEMA	1500	M.	FREE	S HEIM-BOWEN	USA	08-23-98	18:14.34			
28.90	08-23-98	USA	WILLIAM SPECHT	50	M.	BACK	LAURA VAL	USA	05-29-94	32.25			
1:02.48	08-23-98	USA	WILLIAM SPECHT	100	M.	BACK	LAURA VAL	USA	08-23-92	1:11.03			
2:16.40	08-23-98	USA	WILLIAM SPECHT	200	M.	BACK	B BAZUREAU	FRA	03-27-94	2:36.89			
30.56	06-22-98	SWE	GLEN CHRISTIANSEN	50	M.	BRST	DAGMAR HILBIG	GER	06-22-98	35.71			
1:08.97	08-23-98	USA	RON SCHAFER	100	M.	BRST	DAGMAR HILBIG	GER	06-21-98	1:18.34			
2:29.77	08-23-98	USA	RON SCHAFER	200	M.	BRST	DAGMAR HILBIG	GER	06-20-98	2:51.96			
26.33	08-23-98	USA	WILLIAM SPECHT	50	M.	FLY	LAURA VAL	USA	07-09-94	29.89			
58.13	08-23-98	USA	WILLIAM SPECHT	100	M.	FLY	LAURA VAL	USA	08-23-92	1:06.27			
2:09.47	08-23-98	USA	WILLIAM SPECHT	200	M.	FLY	LAURA VAL	USA	07-30-95	2:32.59			
				100	M.	I.M.							
2:15.53	08-14-98	USA	JAMES SORENSEN	200	M.	I.M.	S NEILSON-BELL	USA	08-25-96	2:38.18			
4:53.03	07-30-95	USA	HESS YNTEMA	400	M.	I.M.	LAURA VAL	USA	07-25-93	5:39.70			

FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

WRL SCM RECORDS AS OF 05-01-99

***** RELAY 200 M. FREE - WOMEN *****	***** RELAY 200 M. MEDLEY - WOMEN *****
100-119 MICHIGAN-USA 03-31-96 1:45.93 DYNE BURRELL SUSIE DEVLIN MARY MUETING SHEILA TAORMINA	100-119 SPENCER-GBR 10-26-97 2:04.54 HELEN JAMESON SUSAN HILL SIOBHAN HARTLEY HELEN DAY
120-159 SAN DIEGO-USA 11-09-96 1:53.26 K.PIPES-NEILSEN BETH KNIGHT MATHILDE BOUWMA NANCY NORTH	120-159 SPENCER-GBR 10-25-98 2:04.49 HELEN JAMESON SIOBHAN HARTLEY NICOLA SOMMERS SUSAN HILL
160-199 SAN DIEGO-USA 12-15-98 1:54.94 BETH KNIGHT CAROLINE KRATTLI BARBARA DUNBAR K PIPES-NEILSEN	160-199 SAN DIEGO 12-15-98 2:08.46 K PIPES-NEILSEN CAROLINE KRATTLI BARBARA DUNBAR BETH KNIGHT
200-239 SG NEUHOLLN-GER 09-25-98 2:10.33 MARGA SCHULZE MONIKA SENFTLEBEN BRIGITTE MERTEN ELKE SCHARP	200-239 HAYWARD HTH-GBR 10-25-98 2:24.72 MARGARET WILDING CHRISTINE PERFECT SALLY MILLS EILEEN LUTHER
240-279 ST KANSAI-JPN 01-31-99 2:23.92 FUSAKO HIROOKA EMIKO TSUJIMOTO KAZUKO KAJIWARA YOSHIKO OSAKI	240-279 ST KANSAI-JPN 01-31-99 2:42.95 FUSAKO HIROOKA KAZUKO KAJIWARA YOSHIKO OSAKI EMIKO TSUJIMOTO
280-319 KAWASAKI-JPN 03-15-98 2:47.76 MIEKO KAMOSHITA AKIKO HATTORI MIDORI KINJO KIYOKO KOZU	280-319 KAWASAKIITO-JPN 05-05-98 3:13.50 MIDORI KINJO AKIKO HATTORI KOYOKO KOZU MIEKO KAMOSHITA
320-359 ST PETE - USA 10-31-93 4:09.37 MARIAN MCKECHNIE WIN KENNEDY FRANCES CICHANSKI KAY SCHIMPF	320-359 SAN MATEO-USA 10-13-96 4:39.75 HELEN ROUMASSET HILDA BUEL ZADA TAFT AUDREY ETIENNE

***** RELAY 200 M. FREE - M E N *****	***** RELAY 200 M. MEDLEY - M E N *****
100-119 EL SEGUNDO-USA 12-14-97 1:35.70 FRANK WATTLES DEREK ROBINSON MARCEL RINZLER BERT BERGEN	100-119 EL SEGUNDO-USA 12-14-97 1:45.73 DEREK ROBINSON DAVE HUSTON MARCEL RINZLER BERT BERGEN
120-159 BAYLOR/STAR-USA 03-21-92 1:37.89 RICHARD HESS DOUG MOYSE M.RHODENBAUGH BOBBY PATTEN	120-159 BAYLOR/STAR-USA 04-16-94 1:45.01 JAY YARID GREG RHODENBAUGH BOBBY PATTEN MOOK RHODENBAUGH
160-199 COLONIALS-USA 04-21-96 1:40.74 CHARLES NORELLI THOMAS MEADE MICHAEL SLENKER GREGORY OXLEY	160-199 MINNESOTA-USA 05-02-98 1:52.42 SCOTT TRIPPS J KOCHENDORFER RAY ELLIS MATE LEIGH
200-239 S CAL AQUAT-USA 12-11-94 1:47.41 FRED HUBBELL FRANK PIEMME FRANS NELSON PETER O'KEEFFE	200-239 GOLD COAST-USA 10-11-98 1:59.34 JOHN SPIRE GEORGE SCHMIDT JOEL BURNS CAV CAVANAUGH
240-279 GOLD COAST-USA 12-06-98 1:57.70 PATRICK HOWE DAVID MCINTYRE HERB KERN CAV CAVANAUGH	240-279 FLUMINENSE-BRA 09-07-98 2:11.79 LUIS SILVA RINALDO FERREIRA ANTONIO DE SOUZA ARAM BOGHOSSIAN
280-319 SHUEI-JPN 11-03-93 2:11.55 KEIJIRO NAKAMURA EISAKU HAYASHI ISAMU TAMURA SHUICHI MURAYAMA	280-319 FL MAVERICK-USA 12-07-97 2:31.20 PAUL HUTINGER ROBERT MACDONALD JOSEPH KURTZMAN ALAN MALONEY
320-359 COAST - USA 12-14-97 2:49.99 LOUIS GIBERSON WOODY BOWERSOCK BOB CHRISTIANS WALTER PFEIFFER	320-359 YOKYO SS-JPN 05-04-98 3:20.27 KISABURO WADA SABURO WATANABE Y MIYAMOTO YAJIRO FUKUDA

***** RELAY 200 M. FREE - MIXED *****	***** RELAY 200 M. MEDLEY - MIXED *****
100-119 EL SEGUNDO-USA 12-14-97 1:41.62 BERT BERGEN D GRANER GALLAS MARCEL RINZLER HEIDI HANNENIAN	100-119 EL SEGUNDO-USA 12-14-97 1:52.80 D GRANER GALLAS DAVE HUSTON DEREK ROBINSON HEIDI HANNENIAN
120-159 ST.PETE-USA 10-13-96 1:45.78 LISA SUMMERS WILLIAM SPECHT MCKEITHEN-BUSSEY STUART BARTON	120-159 LAKESIDE-USA 10-15-89 1:58.28 WILLIAM TINGLEY GINA GATTI MICHAEL HIGGS MELINDA SCHMITT
160-199 SAN DIEGO-USA 11-09-96 1:47.38 BETH KNIGHT K.PIPES-NEILSEN LARRY CARTWRIGHT LEE MENCH	160-199 W HOLLYWOOD-USA 06-24-94 2:01.59 ANDREA DEVUONO KAREN MELICK MICHAEL MEALIFFE THOMAS REUDY
200-239 TAMALPAIS-USA 12-13-98 1:55.91 RICHARD BURNS ED CAZALET LAURA VAL NANCY RIDOUT	200-239 ST KANSAI-JPN 10-25-98 2:09.37 YOSHIE OSAKI YOSHIHIKO OSAKI KOJI NAKANO YOSHIKO OSAKI
240-279 SAN DIEGO-USA 12-13-98 2:06.22 MIKE FRESHLEY BETSY JORDAN JACKIE MARR DONALD BAKER	240-279 SAN DIEGO-USA 12-13-98 2:25.26 BETSY JORDAN MIKE FRESHLEY JACKIE MARR DONALD BAKER
280-319 FLUMINENSE-BRA 09-04-98 2:35.24 SEVERINO NETTO CANDIDA GANDOLPHO ENEDINA PEREIRA ARAM BOGHOSSIAN	280-319 100NOKAI-JPN 04-12-98 2:52.77 KAZUKO TAGUCHI MAKOTO NISHIURA AKIRA ITO CHIE TANI
320-359 IBARAKI-JPN 01-31-99 3:20.78 KENZO UEMURA HIROKO TSUCHIYA RITSUKO HAYASHIDA RYUJI FUJIKAWA	320-359 IBARAKI-JPN 01-31-99 3:45.23 RYUJI FUJIKAWA HIROKO TSUCHIYA Y KAWABATA RITSUKO HAYASHIDA

FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

***** M E N *****				85-89	***** W O M E N *****			
37.89	12-13-98	USA	WOODROW BOWERSOCK	50 M. FREE	JULIA DOLCE	USA	10-08-95	51.99
1:33.74	12-13-98	USA	WOODROW BOWERSOCK	100 M. FREE	JULIA DOLCE	USA	10-08-95	2:05.74
3:34.54	01-15-99	JPN	TOKUSHI KOMEDA	200 M. FREE	MAXINE MERLINO	USA	09-27-98	4:37.83
7:54.24	12-10-88	USA	GUS LANGNER	400 M. FREE	MAXINE MERLINO	USA	10-18-98	9:34.27
16:53.90	12-10-88	USA	GUS LANGNER	800 M. FREE	MAXINE MERLINO	USA	12-13-98	19:41.58
32:20.20	12-11-88	USA	GUS LANGNER	1500 M. FREE	MAXINE MERLINO	USA	11-22-98	37:28.53
47.17	03-01-97	GER	R REINSTADTLER	50 M. BACK	MAXINE MERLINO	USA	12-13-98	1:05.17
1:51.19	01-17-99	GER	R REINSTADTLER	100 M. BACK	DOROTHY WESTON	GBR	03-29-98	2:23.91
4:11.25	01-19-97	GER	R REINSTADTLER	200 M. BACK	MAXINE MERLINO	USA	11-22-98	5:13.33
51.17	11-25-95	GER	KARL WITTENBERG	50 M. BRST	EMMI PAULI	GER	05-09-98	1:09.28
2:06.08	06-14-98	USA	WALTER PFEIFFER	100 M. BRST	DOROTHY WESTON	GBR	03-29-98	2:38.75
4:44.32	12-13-98	USA	WALTER PFEIFFER	200 M. BRST	MARTI GOGNIAT	USA	12-14-97	5:59.36
52.74	12-13-98	USA	WALTER PFEIFFER	50 M. FLY	JEWEL COOKE	USA	02-04-96	1:24.22
2:04.50	12-13-98	USA	WALTER PFEIFFER	100 M. FLY	JEWEL COOKE	USA	02-18-96	3:20.81
4:45.09	10-18-98	USA	WALTER PFEIFFER	200 M. FLY	MAXINE MERLINO	USA	09-27-98	6:01.46
1:51.87	06-14-98	USA	WALTER PFEIFFER	100 M. I.M.	MAXINE MERLINO	USA	11-22-98	2:27.70
4:21.19	06-14-98	USA	WALTER PFEIFFER	200 M. I.M.	MAXINE MERLINO	USA	09-27-98	5:12.13
9:31.75	10-18-98	USA	WALTER PFEIFFER	400 M. I.M.	MAXINE MERLINO	USA	10-18-98	11:02.02
***** M E N *****				90-94	***** W O M E N *****			
50.09	12-11-93	USA	GUS LANGNER	50 M. FREE	ANNA BAUSCHER	USA	10-24-93	1:36.77
1:58.42	12-11-93	USA	GUS LANGNER	100 M. FREE	ANNA BAUSCHER	USA	10-24-93	3:24.13
4:27.70	12-11-93	USA	GUS LANGNER	200 M. FREE	ANNA BAUSCHER	USA	10-24-93	7:01.11
8:50.65	12-11-93	USA	GUS LANGNER	400 M. FREE	ANNA BAUSCHER	USA	10-24-93	14:16.35
				800 M. FREE	ANNA BAUSCHER	USA	10-24-93	28:45.45
				1500 M. FREE				
44:48.99	11-10-96	USA	GUS LANGNER	50 M. BACK	M GOTTSCHALK	GER	02-27-99	1:18.60
1:03.01	03-07-98	GER	HANS PAUL	100 M. BACK	VERA FERNANCE	AUS	- -90	4:19.46
2:40.88	10-08-95	USA	JOE KAUFMAN	200 M. BACK				
5:44.64	10-13-96	USA	JOE KAUFMAN	400 M. BACK				
1:05.70	03-07-98	GER	HANS PAUL	50 M. BRST	M GOTTSCHALK	GER	02-27-99	1:30.58
2:45.20	11-15-98	USA	JIM PENFIELD	100 M. BRST	DORRIS VENNING	NZL	- -91	4:05.59
6:41.56	12-03-94	USA	GUS LANGNER	200 M. BRST				
1:16.38	02-22-98	USA	JIM PENFIELD	50 M. FLY	JEWEL COOKE	USA	02-21-99	1:50.91
				100 M. FLY	JEWEL COOKE	USA	02-21-99	4:06.32
				200 M. FLY				
2:51.05	02-22-98	USA	JIM PENFIELD	100 M. I.M.	JEWEL COOKE	USA	02-14-99	3:13.87
				200 M. I.M.	JEWEL COOKE	USA	02-14-99	6:56.70
				400 M. I.M.	JEWEL COOKE	USA	02-21-99	14:55.37
***** M E N *****				95-99	***** W O M E N *****			
57.57	10-14-98	USA	GUS LANGNER	50 M. FREE	MARGERY ANDERSON	CAN	10-10-98	2:02.29
2:19.51	10-11-98	USA	GUS LANGNER	100 M. FREE	MARGERY ANDERSON	CAN	10-10-98	4:35.98
5:13.46	10-11-98	USA	GUS LANGNER	200 M. FREE				
10:51.93	10-11-98	USA	GUS LANGNER	400 M. FREE				
22:05.55	10-11-98	USA	GUS LANGNER	800 M. FREE				
41:29.87	10-11-98	USA	GUS LANGNER	1500 M. FREE				
1:27.67	10-11-98	USA	GUS LANGNER	50 M. BACK	MARGERY ANDERSON	CAN	10-10-98	2:05.36
3:38.07	10-14-98	USA	GUS LANGNER	100 M. BACK				
8:32.34	10-14-98	USA	GUS LANGNER	200 M. BACK				
1:31.60	10-11-98	USA	GUS LANGNER	50 M. BRST				
3:35.33	10-11-98	USA	GUS LANGNER	100 M. BRST				
7:29.31	12-16-98	USA	GUS LANGNER	200 M. BRST				
				50 M. FLY				
				100 M. FLY				
				200 M. FLY				
3:33.98	10-11-98	USA	GUS LANGNER	100 M. I.M.				
				200 M. I.M.				
				400 M. I.M.				
***** M E N *****				100-104	***** W O M E N *****			
2:06.66	09-30-95	USA	TOM LANE	50 M. FREE				
4:32.29	09-30-95	USA	TOM LANE	100 M. FREE				
				200 M. FREE				
				400 M. FREE				
				800 M. FREE				
				1500 M. FREE				
2:02.52	09-30-95	USA	TOM LANE	50 M. BACK				
				100 M. BACK				
				200 M. BACK				
				50 M. BRST				
				100 M. BRST				
				200 M. BRST				
				50 M. FLY				
				100 M. FLY				
				200 M. FLY				
				100 M. I.M.				
				200 M. I.M.				
				400 M. I.M.				

FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

***** M E N *****				***** 65-69 *****				***** W O M E N *****			
28.02	10-18-98	USA	RONALD JOHNSON	50	M.	FREE	GAIL ROPER	USA	10-13-96	34.17	
1:02.77	01-28-96	ESP	ROBERTO ALBERICHE	100	M.	FREE	GAIL ROPER	USA	12-15-96	1:16.26	
2:22.07	12-14-97	USA	GRAHAM JOHNSTON	200	M.	FREE	JANE ASHER	GBR	10-26-97	2:50.40	
5:09.09	12-15-96	USA	GRAHAM JOHNSTON	400	M.	FREE	JANE ASHER	GBR	05-12-96	6:00.99	
10:35.13	06-02-96	USA	GRAHAM JOHNSTON	800	M.	FREE	JANE ASHER	GBR	10-23-98	12:28.75	
19:53.18	06-02-96	USA	GRAHAM JOHNSTON	1500	M.	FREE	CLARA WALKER	USA	12-13-92	23:38.44	
33.46	12-06-98	USA	YOSHI OYAKAWA	50	M.	BACK	DORIS STEADMAN	USA	10-15-89	40.48	
1:14.66	12-06-98	USA	YOSHI OYAKAWA	100	M.	BACK	DORIS STEADMAN	USA	10-15-89	1:30.41	
2:47.59	01-15-98	JPN	S SEKIKAWA	200	M.	BACK	DORIS STEADMAN	USA	10-15-89	3:15.72	
36.07	12-13-98	USA	MANUEL SANGUILY	50	M.	BRST	ELIANE PELLIS	BEL	02-28-98	43.27	
1:21.34	01-28-96	CAN	NICK TEMPLEMAN	100	M.	BRST	FLORA CONNOLLY	GBR	05-01-98	1:34.93	
3:06.13	03-03-96	CAN	NICK TEMPLEMAN	200	M.	BRST	FLORA CONNOLLY	GBR	05-03-98	3:25.67	
31.65	10-18-98	USA	RON JOHNSON	50	M.	FLY	GAIL ROPER	USA	10-15-95	38.44	
1:16.70	10-18-98	USA	RON JOHNSON	100	M.	FLY	GAIL ROPER	USA	10-15-95	1:33.10	
3:06.43	12-15-96	USA	RON JOHNSON	200	M.	FLY	FLORA CONNOLLY	GBR	05-02-98	3:31.57	
1:15.61	12-15-96	USA	RON JOHNSON	100	M.	I.M.	GAIL ROPER	USA	10-13-96	1:28.95	
2:49.10	01-28-96	ESP	ROBERTO ALBERICHE	200	M.	I.M.	CLARA WALKER	USA	12-08-91	3:18.77	
6:04.40	11-23-96	USA	GRAHAM JOHNSTON	400	M.	I.M.	GAIL ROPER	USA	12-15-96	7:07.69	
***** M E N *****				***** 70-74 *****				***** W O M E N *****			
30.21	03-15-98	JPN	TAKAHIKO NOMA	50	M.	FREE	CLARA WALKER	USA	06-22-96	36.32	
1:09.00	12-10-95	USA	FRANK PIEMME	100	M.	FREE	CLARA WALKER	USA	06-22-96	1:20.77	
2:34.64	12-13-98	USA	WILLIAM PHILLIPS	200	M.	FREE	CLARA WALKER	USA	06-22-96	3:02.11	
5:35.49	09-17-95	USA	FRANK PIEMME	400	M.	FREE	JUNE KRAUSER	USA	10-13-96	6:28.81	
11:38.41	10-15-95	USA	FRANK PIEMME	800	M.	FREE	JUNE KRAUSER	USA	09-07-96	13:07.28	
22:30.87	12-13-98	USA	WILLIAM PHILLIPS	1500	M.	FREE	JUNE KRAUSER	USA	11-02-96	24:57.85	
35.71	12-11-94	USA	PAUL HUTINGER	50	M.	BACK	DORIS STEADMAN	USA	10-08-95	42.58	
1:21.74	12-11-94	USA	PAUL HUTINGER	100	M.	BACK	DORIS STEADMAN	USA	10-08-95	1:35.66	
2:55.73	05-23-98	USA	ROGER FRANKS	200	M.	BACK	DORIS STEADMAN	USA	10-08-95	3:27.79	
38.60	11-24-96	JPN	TOSHIO TAJIMA	50	M.	BRST	EDITH BOEHM	GER	03-21-98	45.26	
1:29.48	11-06-94	USA	BARTON GREENBERG	100	M.	BRST	EDITH BOEHM	GER	01-24-98	1:42.97	
3:16.44	04-23-95	GER	KARL HAUTER	200	M.	BRST	SYLVIA NEUHAUSER	AUT	01-31-99	3:45.96	
34.77	12-10-95	USA	FRANK PIEMME	50	M.	FLY	MASUMI TANI	JPN	06-09-96	44.49	
1:26.98	10-13-96	USA	JOSEPH KURTZMAN	100	M.	FLY	JUNE KRAUSER	USA	09-07-96	1:40.20	
3:18.59	04-23-95	GER	ROBERT PFERSDORFF	200	M.	FLY	JUNE KRAUSER	USA	10-13-96	3:38.39	
1:20.99	12-10-95	USA	FRANK PIEMME	100	M.	I.M.	JUNE KRAUSER	USA	10-13-96	1:38.73	
3:00.88	01-28-96	ESP	JESUS DOMINGUEZ	200	M.	I.M.	JUNE KRAUSER	USA	10-13-96	3:31.93	
6:38.98	12-10-95	USA	FRANK PIEMME	400	M.	I.M.	JUNE KRAUSER	USA	10-13-96	7:24.32	
***** M E N *****				***** 75-79 *****				***** W O M E N *****			
32.09	03-14-99	JPN	KEIJIRO NAKAMURA	50	M.	FREE	OLGA JOHNSON	NZL	02-03-96	39.73	
1:13.35	10-26-97	GBR	JACK HALE	100	M.	FREE	MARGERY MEYER	USA	10-18-98	1:33.87	
2:48.67	11-06-94	USA	RAY TAFT	200	M.	FREE	MARGERY MEYER	USA	10-19-97	3:27.92	
6:02.95	10-15-95	USA	RAY TAFT	400	M.	FREE	MARGERY MEYER	USA	10-18-98	7:01.36	
12:45.40	11-06-94	USA	RAY TAFT	800	M.	FREE	MARGERY MEYER	USA	10-18-98	14:46.26	
24:46.19	11-14-93	USA	ALDO DA ROSA	1500	M.	FREE	MARGERY MEYER	USA	10-10-98	27:47.25	
37.47	03-15-98	JPN	KEIJIRO NAKAMURA	50	M.	BACK	WILLY VAN RYSEL	GBR	- -91	48.06	
1:24.21	03-15-98	JPN	KEIJIRO NAKAMURA	100	M.	BACK	WILLY VAN RYSEL	GBR	- -91	1:48.13	
3:10.22	11-06-94	USA	RAY TAFT	200	M.	BACK	WILLY VAN RYSEL	GBR	- -91	4:00.43	
40.22	03-06-99	GER	ROBERT PFERSDORFF	50	M.	BRST	SATOKO SUZUKI	JPN	05-24-98	49.57	
1:28.61	01-30-99	GER	ROBERT PFERSDORFF	100	M.	BRST	AGNES PLISSON	FRA	01-31-99	1:58.76	
3:34.29	11-14-93	USA	ALDO DA ROSA	200	M.	BRST	AGNES PLISSON	FRA	04-03-99	4:20.48	
38.00	10-26-97	GBR	JACK HALE	50	M.	FLY	LOIS KIVI NOCHMAN	USA	02-21-99	47.88	
1:36.80	11-15-92	USA	PAUL KRUP	100	M.	FLY	LOIS KIVI NOCHMAN	USA	02-21-99	1:56.42	
3:49.00	11-15-92	USA	PAUL KRUP	200	M.	FLY	LOIS KIVI NOCHMAN	USA	02-21-99	4:13.64	
1:27.43	11-06-94	USA	RAY TAFT	100	M.	I.M.	AGNES PLISSON	FRA	04-03-99	1:51.58	
3:20.35	11-06-94	USA	RAY TAFT	200	M.	I.M.	AGNES PLISSON	FRA	01-30-99	4:09.47	
7:08.53	11-06-94	USA	RAY TAFT	400	M.	I.M.	LOIS KIVI NOCHMAN	USA	02-21-99	8:30.82	
***** M E N *****				***** 80-84 *****				***** W O M E N *****			
35.16	12-12-93	USA	WOODROW BOWERSOCK	50	M.	FREE	HATSUHO SUGAYA	JPN	05-26-96	44.57	
1:18.80	05-14-95	JPN	HIKOJI UEKI	100	M.	FREE	RITA SIMONTON	USA	12-13-98	1:42.38	
3:01.42	05-14-95	JPN	HIKOJI UEKI	200	M.	FREE	RITA SIMONTON	USA	12-13-98	3:37.21	
6:46.62	09-28-97	USA	ALDO DA ROSA	400	M.	FREE	RITA SIMONTON	USA	12-13-98	7:33.69	
14:09.37	10-10-98	USA	ALDO DA ROSA	800	M.	FREE	RITA SIMONTON	USA	10-24-98	15:49.21	
26:41.69	10-10-98	USA	ALDO DA ROSA	1500	M.	FREE	RITA SIMONTON	USA	11-22-98	29:48.75	
42.16	10-10-98	JPN	SHOICHI SAKAMOTO	50	M.	BACK	WILLY VAN RYSEL	GBR	11-02-96	55.58	
1:36.41	10-18-98	USA	ALDO DA ROSA	100	M.	BACK	EDITH THEIN	ISR	02-21-98	1:57.69	
3:33.91	11-06-94	USA	EDWARD SHEA	200	M.	BACK	EDITH THEIN	ISR	02-21-98	4:03.55	
44.56	11-16-97	JPN	Y MIYAMOTO	50	M.	BRST	MICHIKO HAMURO	JPN	03-14-99	1:00.96	
1:43.91	11-03-97	JPN	Y MIYAMOTO	100	M.	BRST	MICHIKO HAMURO	JPN	03-14-99	2:16.49	
3:56.61	10-19-97	USA	ALDO DA ROSA	200	M.	BRST	RITA SIMONTON	USA	12-13-98	4:49.62	
44.75	11-16-98	JPN	Y MIYAMOTO	50	M.	FLY	MARIA LENK	BRA	03-12-95	1:02.58	
1:47.20	06-08-97	USA	PAUL KRUP	100	M.	FLY	JEAN DURSTON	USA	11-06-94	2:28.34	
4:00.64	06-08-97	USA	ANTON CERER	200	M.	FLY	MAXINE MERLINO	USA	10-17-92	5:22.65	
1:36.93	10-19-97	USA	ALDO DA ROSA	100	M.	I.M.	MARIA LENK	BRA	03-25-95	2:06.91	
3:35.06	10-19-97	USA	ALDO DA ROSA	200	M.	I.M.	MARIA LENK	BRA	03-12-95	4:40.77	
7:53.88	10-18-98	USA	ALDO DA ROSA	400	M.	I.M.	MAXINE MERLINO	USA	10-11-92	9:50.43	

FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

***** M E N *****			***** 45-49 *****			***** W O M E N *****		
24.70	01-07-95	NED	JAN KOEN ANTHONI	50	M. FREE	LAURA VAL	USA	10-13-96 28.11
54.64	09-08-95	RSA	TERRY DOWNES	100	M. FREE	LAURA VAL	USA	10-13-96 1:01.76
2:00.13	12-15-96	USA	TIM BRODERICK	200	M. FREE	LAURA VAL	USA	10-13-96 2:16.07
4:18.44	10-13-96	USA	TIM BRODERICK	400	M. FREE	LAURA VAL	USA	10-18-98 4:49.52
8:56.08	10-13-96	USA	TIM BRODERICK	800	M. FREE	LAURA VAL	USA	10-10-98 9:56.23
17:24.70	12-14-97	USA	JIM MCCONICA	1500	M. FREE	LAURA VAL	USA	10-10-98 18:55.82
29.33	03-12-89	USA	ROBERT SMITH	50	M. BACK	LAURA VAL	USA	10-13-96 32.39
1:04.14	11-07-98	GBR	EDDIE RIACH	100	M. BACK	LAURA VAL	USA	10-13-96 1:10.76
2:18.98	05-02-98	GBR	EDDIE RIACH	200	M. BACK	NANCY FISHER	USA	02-18-96 2:37.35
31.83	10-15-95	USA	ROBERT STRAND	50	M. BRST	BEA POOL	NED	02-12-94 37.54
1:09.44	12-10-95	USA	ROBERT STRAND	100	M. BRST	ULRIKE URBANIAK	GER	02-07-98 1:21.88
2:34.41	12-10-95	USA	ROBERT STRAND	200	M. BRST	ULRIKE URBANIAK	GER	02-05-99 2:54.97
27.08	04-17-93	USA	DAN THOMPSON	50	M. FLY	LAURA VAL	USA	10-13-96 30.50
1:01.13	11-03-96	USA	TOM PERRIN	100	M. FLY	LAURA VAL	USA	10-13-96 1:07.80
2:19.73	12-15-96	USA	BOO GRANER GALLAS	200	M. FLY	LAURA VAL	USA	10-19-97 2:33.70
1:04.80	11-06-94	USA	ANDREW MCPHERSON	100	M. I.M.	LAURA VAL	USA	10-19-97 1:11.82
2:22.11	11-06-98	GBR	EDDIE RIACH	200	M. I.M.	LAURA VAL	USA	10-19-97 2:37.59
4:57.94	03-15-98	ITA	LORENZO MARUGO	400	M. I.M.	DANIELLE OGIER	USA	12-13-98 5:43.24
***** M E N *****			***** 50-54 *****			***** W O M E N *****		
25.49	12-13-98	USA	ROGER HAWKINS	50	M. FREE	CAROL FELLOWS	GBR	10-25-98 30.29
56.63	10-13-96	USA	KEEFE LODWIG	100	M. FREE	ARDETH MUELLER	USA	10-06-91 1:06.41
2:06.76	12-15-96	USA	TIM BIRNIE	200	M. FREE	DIANNE FOSTER	CAN	01-17-99 2:24.94
4:30.80	12-13-98	USA	R TOD SPIEKER	400	M. FREE	DIANNE FOSTER	CAN	11-21-98 5:02.82
9:12.81	12-13-98	USA	R TOD SPIEKER	800	M. FREE	DIANNE FOSTER	CAN	01-17-99 10:24.37
17:40.00	10-10-98	USA	R TOD SPIEKER	1500	M. FREE	CAROLYN BOAK	USA	10-15-95 21:22.26
29.50	12-14-97	USA	HUGH WILDER	50	M. BACK	CAROL FELLOWS	GBR	11-08-97 34.97
1:04.17	12-14-97	USA	HUGH WILDER	100	M. BACK	SANDRA O'NEIL	GBR	10-26-97 1:19.16
2:21.88	10-18-98	USA	R TOD SPIEKER	200	M. BACK	ARDETH MUELLER	USA	12-07-91 2:48.88
31.24	12-14-97	USA	DON MCKENZIE	50	M. BRST	JAN MACLEOD	AUS	09-13-97 38.48
1:09.96	12-15-96	USA	ROBERT STRAND	100	M. BRST	C HEEREN	GER	02-06-99 1:24.45
2:34.71	12-15-96	USA	ROBERT STRAND	200	M. BRST	DIANE FORD	GBR	10-17-93 3:06.63
27.55	11-22-98	USA	STEVE BOROWSKI	50	M. FLY	JUDY WILSON	GBR	10-24-98 33.09
1:02.54	12-14-97	USA	BOO GRANER GALLAS	100	M. FLY	ARDETH MUELLER	USA	10-06-91 1:12.66
2:21.58	12-14-97	USA	BOO GRANER GALLAS	200	M. FLY	ARDETH MUELLER	USA	12-09-95 2:55.91
1:04.97	12-15-96	USA	ROBERT STRAND	100	M. I.M.	CAROL FELLOWS	GBR	10-27-96 1:17.98
2:25.01	12-14-97	USA	ROBERT STRAND	200	M. I.M.	BRIGITTE MERTEN	GER	11-02-97 2:48.78
5:16.86	10-18-98	USA	R TOD SPIEKER	400	M. I.M.	ARDETH MUELLER	USA	12-07-91 5:56.24
***** M E N *****			***** 55-59 *****			***** W O M E N *****		
26.60	10-15-89	USA	DONALD HILL	50	M. FREE	ARDETH MUELLER	USA	11-03-96 30.37
59.49	11-02-97	USA	JACK GEOGHEGAN	100	M. FREE	YOSHIKO OSAKI	JPN	11-03-94 1:11.18
2:13.20	12-07-97	USA	JACK GEOGHEGAN	200	M. FREE	ARDETH MUELLER	USA	11-03-96 2:28.30
4:47.10	06-28-97	GBR	SANDY GALLETTY	400	M. FREE	ARDETH MUELLER	USA	11-03-96 5:15.91
9:47.45	10-26-97	GBR	SANDY GALLETTY	800	M. FREE	JEN THOMASSON	AUS	08-29-98 11:04.01
18:51.83	10-25-98	GBR	SANDY GALLETTY	1500	M. FREE	JEN THOMASSON	AUS	08-29-98 20:49.11
30.94	12-05-98	USA	ROBERT SMITH	50	M. BACK	S NABUCO DE ABREU	BRA	09-05-98 35.82
1:08.34	10-18-98	USA	RICHARD BURNS	100	M. BACK	SATOKO TAKEUJI	JPN	05-18-97 1:19.61
2:32.73	10-18-98	USA	RICHARD BURNS	200	M. BACK	MARGARET WILDING	GBR	10-26-97 2:58.47
33.17	05-09-93	JPN	HIROSHI KOTEGAWA	50	M. BRST	MONIKA SENFTLEBEN	GER	11-08-97 38.98
1:16.32	06-04-88	USA	MANUEL SANGUILY	100	M. BRST	BONNIE PRONK	CAN	11-22-97 1:25.92
2:49.21	12-13-98	USA	TEGZE HARASZTI	200	M. BRST	BONNIE PRONK	CAN	11-22-97 3:08.87
28.92	02-20-99	ESP	JOSEP CLARET	50	M. FLY	ARDETH MUELLER	USA	11-02-97 33.66
1:06.29	11-15-98	USA	ROBERT POILETMAN	100	M. FLY	ARDETH MUELLER	USA	11-02-97 1:18.75
2:31.16	11-15-98	USA	ROBERT POILETMAN	200	M. FLY	ARDETH MUELLER	USA	11-03-96 2:55.05
1:09.43	11-15-98	USA	ROBERT SMITH	100	M. I.M.	YOSHIKO OSAKI	JPN	05-28-95 1:21.25
2:34.42	05-22-95	CAN	JACK KELSO	200	M. I.M.	ARDETH MUELLER	USA	11-02-97 2:52.43
5:29.09	06-28-97	GBR	SANDY GALLETTY	400	M. I.M.	JEN THOMASSON	AUS	07-25-98 6:11.73
***** M E N *****			***** 60-64 *****			***** W O M E N *****		
27.32	06-25-95	USA	BOB BAILIE	50	M. FREE	JAYNE BRUNER	USA	12-03-95 33.07
1:01.96	06-25-95	USA	BOB BAILIE	100	M. FREE	YOSHIKO OSAKI	JPN	04-12-98 1:12.22
2:21.31	06-25-95	USA	GRAHAM JOHNSTON	200	M. FREE	YOSHIKO OSAKI	JPN	04-12-98 2:38.40
4:56.69	06-25-95	USA	GRAHAM JOHNSTON	400	M. FREE	LAVELLE STONOFF	USA	03-14-93 5:38.06
10:27.62	06-25-95	USA	GRAHAM JOHNSTON	800	M. FREE	LAVELLE STONOFF	USA	03-14-93 11:30.55
19:48.44	06-25-95	USA	GRAHAM JOHNSTON	1500	M. FREE	YOSHIKO OSAKI	JPN	05-30-98 21:59.83
34.05	10-09-94	USA	JACK BEATTIE	50	M. BACK	BETSY JORDAN	USA	06-15-97 38.74
1:13.55	10-09-94	USA	JACK BEATTIE	100	M. BACK	BETSY JORDAN	USA	06-15-97 1:24.16
2:40.75	10-09-94	USA	JACK BEATTIE	200	M. BACK	BETSY JORDAN	USA	09-14-97 3:05.27
34.41	05-12-96	JPN	HIROSHI KOTEGAWA	50	M. BRST	JAYNE BRUNER	USA	03-23-96 41.74
1:19.82	05-28-95	JPN	AKIO SUGIYAMA	100	M. BRST	FLORA CONNOLLY	GBR	04-23-94 1:32.12
2:57.08	10-28-95	GBR	THOMAS WALKER	200	M. BRST	JOANN LEILICH	USA	03-27-99 3:18.34
30.34	11-05-95	USA	BOB BAILIE	50	M. FLY	YOSHIKO OSAKI	JPN	05-10-98 36.05
1:13.76	11-27-98	BRA	LUIS RICARDO SIMI	100	M. FLY	YOSHIKO OSAKI	JPN	04-26-98 1:27.45
2:53.49	05-17-97	BRA	LUIS RICARDO SIMI	200	M. FLY	FLORA CONNOLLY	GBR	04-23-94 3:17.00
1:12.78	05-11-97	JPN	TOSHIHIRO HAYASHI	100	M. I.M.	YOSHIKO OSAKI	JPN	05-10-98 1:23.16
2:46.69	08-11-91	USA	GRAHAM JOHNSTON	200	M. I.M.	YOSHIKO OSAKI	JPN	01-25-98 2:59.95
6:02.73	07-18-93	USA	GRAHAM JOHNSTON	400	M. I.M.	YOSHIKO OSAKI	JPN	01-31-99 6:28.22

FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

WRL SCM RECORDS AS OF 05-01-99

***** M E N *****				***** W O M E N *****					
WRL SCM RECORDS AS OF 05-01-99				WRL SCM RECORDS AS OF 05-01-99					
***** 25-29 *****				***** 25-29 *****					
22.48	12-04-93	USA	ROBERT PEEL	50	M. FREE	HAGEMAN/SCHUBERT	U/G	11- -97	26.63
49.91	12-10-95	USA	BJORN ZIKARSKY	100	M. FREE	SHEILA TAORMINA	USA	03-31-96	56.30
1:48.81	12-10-95	USA	JOHN KEPPELER	200	M. FREE	SHEILA TAORMINA	USA	03-31-96	1:59.78
3:58.23	12-14-97	USA	ALEX KOSTICH	400	M. FREE	SHEILA TAORMINA	USA	03-31-96	4:24.18
8:14.75	12-14-97	USA	ALEX KOSTICH	800	M. FREE	SHEILA TAORMINA	USA	03-31-96	8:51.18
15:41.81	12-14-97	USA	ALEX KOSTICH	1500	M. FREE	SHEILA TAORMINA	USA	03-31-96	16:36.07
25.43	10-16-94	GBR	MARTIN HARRIS	50	M. BACK	GISELE PEREIRA	BRA	09-05-98	30.32
54.82	11-12-94	GBR	MARTIN HARRIS	100	M. BACK	BERIT PUGGAARD	DEN	11-01-97	1:04.50
2:01.78	10-16-94	GBR	MARTIN HARRIS	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
1:03.23	11-03-97	JPN	HIDEAKI TOGO	100	M. BRST	MANUELA NAECHEL	GER	10-17-98	1:10.71
2:20.43	12-14-96	USA	ABRAHAM SOLANO	200	M. BRST	HELEN GORMAN	GBR	10-23-98	2:37.35
25.20	03-16-97	SWE	JONAS AKESSON	50	M. FLY	SHEILA TAORMINA	USA	03-31-96	28.68
55.85	09-05-98	BRA	ROBERTO NETO	100	M. FLY	SHEILA TAORMINA	USA	03-31-96	1:01.33
2:05.97	10-17-93	GBR	GAVIN LILLEY	200	M. FLY	S. PALMER-WHITE	AUS	- -91	2:17.13
56.90	11-12-94	GBR	MARTIN HARRIS	100	M. I.M.	WENKE HANSEN	USA	12-13-98	1:05.67
2:05.93	12-10-95	USA	JOHN KEPPELER	200	M. I.M.	WENKE HANSEN	USA	12-13-98	2:21.79
4:26.79	12-10-95	USA	JOHN KEPPELER	400	M. I.M.	WENKE HANSEN	USA	12-13-98	5:02.54
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22.82	10-15-89	JPN	ROWDY GAINES	50	M. FREE	ANNA PETTIS-SCOTT	USA	04-17-93	26.46
50.51	10-15-89	JPN	ROWDY GAINES	100	M. FREE	SANDY NEILSON	USA	05-16-88	57.35
1:50.91	10-15-89	JPN	ROWDY GAINES	200	M. FREE	K PIPES-NEILSEN	USA	12-15-96	2:04.64
3:59.83	06-24-94	USA	BRUCE HAYES	400	M. FREE	K PIPES-NEILSEN	USA	12-01-96	4:22.70
8:19.44	06-24-94	USA	BRUCE HAYES	800	M. FREE	K PIPES-NEILSEN	USA	09-22-96	9:08.34
16:21.25	06-24-94	USA	BRUCE HAYES	1500	M. FREE	KAREN BURTON	USA	12-11-94	17:23.60
26.58	04-16-94	USA	JAY YARID	50	M. BACK	D GRANER GALLAS	USA	12-15-96	30.14
56.83	11-27-93	USA	JAY YARID	100	M. BACK	K PIPES-NEILSEN	USA	12-10-95	1:03.96
2:04.63	11-27-93	USA	JAY YARID	200	M. BACK	K PIPES-NEILSEN	USA	12-01-96	2:16.62
29.21	10-13-96	USA	DEAN PUTTERMAN	50	M. BRST	SUKI BROWNSDON	GBR	10-28-95	33.13
1:04.23	01-09-94	NED	FRANK VIJVER	100	M. BRST	SUKI BROWNSDON	GBR	10-27-95	1:11.81
2:22.97	10-18-98	USA	ROGUE SANTOS	200	M. BRST	SUKI BROWNSDON	GBR	10-26-97	2:40.08
25.06	04-09-89	USA	MICHAEL BOTTOM	50	M. FLY	D GRANER GALLAS	USA	12-15-96	29.20
54.82	05-19-96	JPN	HIROSHI MIURA	100	M. FLY	K PIPES-NEILSEN	USA	12-01-96	1:03.80
2:05.73	07-20-96	GBR	IAN BECK	200	M. FLY	K PIPES-NEILSEN	USA	12-01-96	2:19.64
57.84	05-19-96	JPN	HIROSHI MIURA	100	M. I.M.	K PIPES-NEILSEN	USA	12-10-95	1:05.16
2:06.69	10-05-96	GBR	PAUL BREW	200	M. I.M.	K PIPES-NEILSEN	USA	12-10-95	2:20.90
4:33.17	10-22-95	USA	JEROME FRENTSOS	400	M. I.M.	K PIPES-NEILSEN	USA	12-15-96	4:53.85
***** 35-39 *****				***** 35-39 *****					
23.80	12-11-94	USA	BRUCE STAHL	50	M. FREE	S. NEILSON-BELL	USA	11-19-95	26.13
52.64	10-02-94	AUS	MARK MORGAN	100	M. FREE	S. NEILSON-BELL	USA	12-03-94	57.71
1:53.66	01-25-98	NED	EDWIN VAN NORDEN	200	M. FREE	K PIPES-NEILSEN	USA	12-14-97	2:03.56
4:07.22	01-10-98	NED	EDWIN VAN NORDEN	400	M. FREE	K PIPES-NEILSEN	USA	12-14-97	4:24.01
8:39.15	11-21-98	USA	BOBBY PATTEN	800	M. FREE	K PIPES-NEILSEN	USA	11-22-98	9:15.40
16:22.20	11-21-98	USA	BOBBY PATTEN	1500	M. FREE	K PIPES-NEILSEN	USA	09-27-98	17:40.20
26.84	03-23-96	USA	CLAY BRITT	50	M. BACK	K PIPES-NEILSEN	USA	09-27-98	30.94
58.25	03-23-96	USA	CLAY BRITT	100	M. BACK	K PIPES-NEILSEN	USA	12-14-97	1:03.56
2:09.92	01-09-99	NED	EDWIN VAN NORDEN	200	M. BACK	K PIPES-NEILSEN	USA	12-14-97	2:14.10
28.82	04-04-98	USA	WALLY DICKS	50	M. BRST	CAROLINE KRATTLI	USA	12-13-98	34.59
1:03.18	04-04-98	USA	WALLY DICKS	100	M. BRST	K PIPES-NEILSEN	USA	12-14-97	1:15.65
2:22.64	04-27-96	CAN	SERGE SCORE	200	M. BRST	CAROLINE KRATTLI	USA	12-13-98	2:43.61
25.89	10-10-93	USA	WILLIAM SPECHT	50	M. FLY	TRACIE MOLL	USA	10-11-98	29.29
57.02	10-10-93	USA	WILLIAM SPECHT	100	M. FLY	K PIPES-NEILSEN	USA	12-14-97	1:03.29
2:06.48	10-09-94	USA	WILLIAM SPECHT	200	M. FLY	K PIPES-NEILSEN	USA	12-14-97	2:18.41
59.28	04-04-98	USA	CLAY BRITT	100	M. I.M.	K PIPES-NEILSEN	USA	12-13-98	1:05.74
2:08.21	01-31-99	NED	EDWIN VAN NORDEN	200	M. I.M.	K PIPES-NEILSEN	USA	12-13-98	2:20.79
4:40.84	10-26-97	GBR	ROBIN BREW	400	M. I.M.	K PIPES-NEILSEN	USA	12-14-97	4:52.85
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24.36	09-04-98	VEN	RAMON GAMBOA	50	M. FREE	LAURA VAL	USA	10-15-95	27.74
53.25	12-11-95	USA	RICK ABBOTT	100	M. FREE	LAURA VAL	USA	11-14-93	1:00.68
1:57.83	06-25-95	USA	HESS YNTEMA	200	M. FREE	S HEIM-BOWEN	USA	10-18-98	2:13.58
4:09.31	06-25-95	USA	HESS YNTEMA	400	M. FREE	S HEIM-BOWEN	USA	10-18-98	4:34.83
8:49.83	06-25-95	USA	HESS YNTEMA	800	M. FREE	S HEIM-BOWEN	USA	10-04-98	9:29.90
16:51.71	06-25-95	USA	HESS YNTEMA	1500	M. FREE	S HEIM-BOWEN	USA	10-10-98	18:02.62
27.84	10-11-98	USA	WILLIAM SPECHT	50	M. BACK	LAURA VAL	USA	11-14-93	31.55
59.26	10-11-98	USA	WILLIAM SPECHT	100	M. BACK	LAURA VAL	USA	10-15-95	1:10.45
2:09.61	10-11-98	USA	WILLIAM SPECHT	200	M. BACK	LAURA VAL	USA	12-10-95	2:34.04
29.86	09-28-97	SWE	GLEN CHRISTIANSEN	50	M. BRST	JENNY WHITELEY	AUS	11-07-98	36.13
1:06.50	12-14-97	USA	RON SCHAFER	100	M. BRST	JUDY WOODWARD	CAN	04-04-98	1:18.85
2:25.58	12-14-97	USA	RON SCHAFER	200	M. BRST	AMANDA HEATH	GBR	10-23-98	2:49.01
25.80	09-06-98	VEN	RAMON GAMBOA	50	M. FLY	LAURA VAL	USA	10-15-95	30.17
56.18	10-11-98	USA	WILLIAM SPECHT	100	M. FLY	LAURA VAL	USA	11-14-93	1:06.86
2:02.97	10-11-98	USA	WILLIAM SPECHT	200	M. FLY	LAURA VAL	USA	11-14-93	2:29.19
1:02.30	10-15-89	USA	RIC COOLEY	100	M. I.M.	JENNY WHITELEY	AUS	06-27-98	1:11.13
2:12.25	11-22-98	USA	JIM SORENSEN	200	M. I.M.	LAURA VAL	USA	11-15-92	2:33.89
4:43.28	06-25-95	USA	HESS YNTEMA	400	M. I.M.	LAURA VAL	USA	11-15-92	5:32.53

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