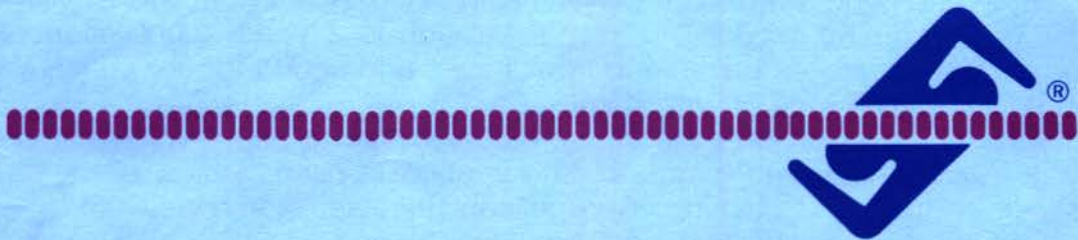


*United States
Masters Swimming, Inc.*

**1998
Top Ten
Short Course ~~Yards~~ METERS**

and
World Records
as of November 1, 1998
**Long Course Meters
Short Course Meters**



UNITED STATES MASTERS SWIMMING
1998 TOP TEN
SHORT COURSE METERS

The 1998 Short Course Meters Top Ten is the third issue in a series of three 1998 Top Ten issues produced by United States Masters Swimming. Inside you will find the Top Ten Times for the 1998 Short Course Meter season (swims performed in a 25 meter pool) made on or before December 31, 1998 and forwarded to the Records and Tabulation Chairman, Pieter Cath, by January 26, 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 withst stroke segment. ~~To receive a patch,~~ Send \$5 to Darlyne Ferguson, 4917 Walden Circle, Orlando, FL 32811. Add \$1²⁵ for each additional stroke segment desired.

The first issue in the 1999 series will be 1998-1999 Short Course Yards (swims performed in a 25 yard pool). Times and records considered for this Top Ten list must be made on or before May 31, 1999 and reported to the Top Ten Chairman by June 30th.

The 1999 Long Course Meters (swims performed in a 50 meter pool) list is the second issue in this series of Top Tens. 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.

Now that the SCM Top Ten is *finalized*, the official 1998 All American Roster will be produced. A swimmer/relay who has the fastest 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 an All Star 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 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

WOMEN 19-24							
<ul style="list-style-type: none"> • 50 M. FREESTYLE 26.61 ALISON TERRY 98 26.61 Alison Terry 24 27.83 Missy Fowlkes 24 28.97 K Goldthorpe 23 29.02 Meagan Ivers 23 30.00 Leslie Allen 23 30.00 Miah Broussard 22 30.44 Siobhan Millette 24 30.47 Sarah Higgins 19 30.89 Sarah Moore 22 31.05 Alison Evans 20 • 100 M. FREESTYLE 57.86 ALISON TERRY 97 58.18 Alison Terry 24 1:02.80 Missy Fowlkes 24 1:03.14 Becca Tipton 22 1:03.73 Meagan Ivers 23 1:05.35 Miah Broussard 22 1:05.72 Leslie Allen 23 1:05.75 Merideth Cox 23 1:06.33 Kristi Lee 23 1:06.62 Sarah Higgins 19 1:07.22 Julia C Davies 24 • 200 M. FREESTYLE 2:08.96 ALISON TERRY 97 2:18.69 Kristi Aceto 19 2:19.70 Merideth Cox 23 2:24.32 K Goldthorpe 23 2:24.88 Miah Broussard 22 2:26.06 Lee Anne Britt 24 2:27.29 Gina Cheuk 19 2:27.46 Kristi Lee 23 2:31.67 Catherine Fuss 24 2:31.90 Emilie Ellis 24 2:32.11 Jill Murany 24 • 400 M. FREESTYLE 4:43.50 LISA DIAL 92 4:49.36 Julia C Davies 24 4:51.03 Merideth Cox 23 4:54.31 Kristi Aceto 19 5:06.11 Kristi Lee 23 5:07.33 Allison Smith 23 5:11.72 Christina Wong 24 5:11.98 Lee Anne Britt 24 5:14.37 Emilie Ellis 24 5:15.28 Chantal Harrison 24 5:19.54 Lisa Gorsline 23 • 800 M. FREESTYLE 9:49.66 LAURA ANTONIETTA 94 9:53.37 Julia C Davies 24 10:36.20 Kristi Lee 23 10:41.97 Chantal Harrison 24 10:43.87 Jill Murany 24 11:14.45 Lisa Gorsline 23 11:22.76 Kendra Garrow 24 11:32.02 Anna M Malsch 24 11:41.93 Holly Castle 21 11:54.87 Brooke O'Connor 24 11:56.33 Kirsty Malone 20 • 1500 M. FREESTYLE 18:54.01 KRISTIN HENSON 90 19:23.66 Teri Campbell 23 20:08.88 Jill Murany 24 20:12.52 Chantal Harrison 24 20:40.98 Catherine Fuss 24 21:19.35 Lisa Gorsline 23 21:25.61 Kendra Garrow 24 22:26.93 Holly Castle 21 22:39.44 Brooke O'Connor 24 24:03.00 Jeanne Coon 23 24:53.99 Marcie Tackett 23 • 50 M. BACKSTROKE 30.86 KYM HUCAL 94 	<ul style="list-style-type: none"> 33.42 Meagan Ivers 23 33.76 Leslie Allen 23 34.10 Sara Reese 23 35.11 Rebeca Kupcinskas 24 35.60 Sara Pelosi 19 36.06 Joselyn Skovgard 23 36.10 Lee Anne Britt 24 36.14 Siobhan Millette 24 36.20 Rachel Gross 23 36.34 Jennifer A Davis 24 • 100 M. BACKSTROKE 1:06.59 ALISON TERRY 98 1:06.59 Alison Terry 24 1:12.94 Meagan Ivers 23 1:14.37 K Robertson 22 1:16.67 Sarah Higgins 19 1:16.91 Sarah Riley 23 1:16.96 Rebeca Kupcinskas 24 1:17.01 Lee Anne Britt 24 1:17.98 Sarah Hans 22 1:21.02 Siobhan Millette 24 1:21.07 Leslie Allen 23 • 200 M. BACKSTROKE 2:22.61 N WUNDERLICH 95 2:36.15 Noortje Dekkers 21 2:41.50 K Robertson 22 2:41.58 Sarah Riley 23 2:45.10 Rebeca Kupcinskas 24 2:47.88 Andrea Scheele 21 2:49.79 Emilie Ellis 24 2:59.00 Nicol Ciancarelli 20 2:59.65 Amira Jarmakani 24 3:05.17 Lura Hess 22 3:06.79 Sandy Rapkin 24 • 50 M. BREASTSTROKE 32.09 BEATA KASZUBA 95 37.17 Elizabeth Boehm 24 38.11 Wendy Dixon 20 38.83 Leslie Allen 23 39.00 M Pettijohn 24 39.55 Sara Reese 23 40.04 Barbara Welsler 20 40.21 Liz Barnett 23 40.26 Becca Tipton 22 40.64 Brooke Barker 19 40.89 Julie Howard 24 • 100 M. BREASTSTROKE 1:08.89 BEATA KASZUBA 95 1:20.93 Elizabeth Boehm 24 1:21.02 Sarah Riley 23 1:21.12 Rinehold Armstr 22 1:21.16 Jean Dillon 24 1:25.53 Barbara Welsler 20 1:26.75 Brooke Barker 19 1:27.43 Liz Barnett 23 1:28.07 Sonia Millan 22 1:28.25 Gina Cheuk 19 1:28.43 Tazia Brunetti 23 • 200 M. BREASTSTROKE 2:38.63 ANITA NALL 97 2:56.50 Elizabeth Boehm 24 3:02.03 Wendy Dixon 20 3:05.24 Barbara Welsler 20 3:08.87 Kelly Gleason 23 3:09.50 Maria E Peterson 22 3:11.33 Regina Gluchowski 23 3:11.43 Sonia Millan 22 3:20.76 Julie Howard 24 3:21.42 Rebeca Kupcinskas 24 3:28.57 Kendra Garrow 24 • 50 M. BUTTERFLY 28.84 JAMIE RAAB 94 31.34 Meagan Ivers 23 31.68 Sara Reese 23 31.68 Chantal Harrison 24 32.06 K Goldthorpe 23 32.81 Becca Tipton 22 33.07 Sara Pelosi 19 	<ul style="list-style-type: none"> 33.11 Miah Broussard 22 33.25 Kristi Aceto 19 33.40 Noortje Dekkers 21 33.69 Heidi See 24 • 100 M. BUTTERFLY 1:05.38 JAMIE RAAB 94 1:10.75 Chantal Harrison 24 1:10.97 Alison Terry 24 1:12.60 Jean Dillon 24 1:13.27 Miah Broussard 22 1:14.79 K Goldthorpe 23 1:18.38 Sonia Millan 22 1:20.02 Joselyn Skovgard 23 1:20.44 Rinehold Armstr 22 1:20.77 Cath Merrifield 19 1:21.61 Brooke Barker 19 • 200 M. BUTTERFLY 2:28.91 LOUISE APPLETON 97 2:40.68 Chantal Harrison 24 2:56.14 Lisa Gorsline 23 2:56.97 Cath Merrifield 19 2:57.83 Gina Cheuk 19 3:03.31 Clair Norton-Cruz 19 3:06.41 Kendra Garrow 24 3:47.44 Wendy Dobson 21 • 100 M. INDIVIDUAL MEDLEY 1:05.34 BEATA KASZUBA 95 1:12.03 Sara Reese 23 1:13.18 Becca Tipton 22 1:13.22 Leslie Allen 23 1:13.58 Missy Fowlkes 24 1:14.07 Meagan Ivers 23 1:15.07 Sarah Riley 23 1:15.44 Elizabeth Boehm 24 1:15.60 Miah Broussard 22 1:16.90 Lee Anne Britt 24 1:17.96 M Pettijohn 24 • 200 M. INDIVIDUAL MEDLEY 2:30.37 N WUNDERLICH 95 2:41.02 Sarah Riley 23 2:42.23 Jean Dillon 24 2:43.27 Gina Cheuk 19 2:43.28 Miah Broussard 22 2:43.30 Merideth Cox 23 2:43.91 Lee Anne Britt 24 2:44.43 Rinehold Armstr 22 2:47.43 Chantal Harrison 24 2:48.67 Christina Wong 24 2:50.86 Jill Murany 24 • 400 M. INDIVIDUAL MEDLEY 5:12.14 N WUNDERLICH 95 5:37.71 Merideth Cox 23 6:07.26 Emilie Ellis 24 6:16.87 Sonia Millan 22 6:17.16 Kendra Garrow 24 6:20.56 Rebeca Kupcinskas 24 6:22.33 Cath Merrifield 19 6:42.38 Victoria Webber 23 6:56.75 Sandy Rapkin 24 7:27.63 Kristen Cornwell 20 	<ul style="list-style-type: none"> 1:03.77 Ruth Tanenbaum 28 1:04.02 Bridget Coll 28 1:04.76 Jackie Dunklee 25 1:05.07 Rachel Frentsos 27 1:05.18 Kelly Donovan 28 1:05.62 Jennifer Scalise 27 1:05.72 Yuriko Poehlman 29 1:06.02 Karin Gardner 29 1:06.25 Eunice Ching 27 • 200 M. FREESTYLE 1:59.78 SHEILA TAORMINA 96 2:12.87 Jennifer Ridge 29 2:15.29 Jane Cairns 28 2:17.71 Bridget Coll 28 2:18.18 Linda Visser 28 2:19.95 Nicole Latty 27 2:20.26 Rachel Frentsos 27 2:21.39 Ann Hill 29 2:25.85 Eunice Ching 27 2:26.51 Jeni Buys 29 2:28.06 Michele Fox 29 • 400 M. FREESTYLE 4:24.18 SHEILA TAORMINA 96 4:40.79 Jane Cairns 28 4:45.68 Kari Andersson 26 4:47.89 Nicole Latty 27 4:50.24 Bridget Coll 28 4:50.85 Joanne Reiersen 27 5:02.20 Katherine Veazey 25 5:02.30 Ann Hill 29 5:04.48 Shauna Simpson 27 5:11.52 Vanessa Gibbons 27 5:11.88 Michele Fox 29 • 800 M. FREESTYLE 8:51.18 SHEILA TAORMINA 96 10:17.87 Bridget Coll 28 10:24.32 Shauna Simpson 27 10:28.31 Ann Hill 29 10:28.87 Linda Visser 28 10:39.39 Suzanne Dearworth 28 10:41.44 Elizabeth Irving 25 10:41.52 Muzumi Masuda 25 10:57.94 Krista Habecker 25 11:03.41 Ellen Sommerlad 27 11:05.05 Geneve Hendricks 29 • 1500 M. FREESTYLE 16:36.07 SHEILA TAORMINA 96 19:20.40 Bridget Coll 28 19:34.84 Linda Visser 28 19:40.73 Ann Hill 29 20:02.10 Suzanne Dearworth 28 20:46.87 Vanessa Gibbons 27 20:49.81 Michelle Davidson 28 20:53.27 Krista Habecker 25 20:54.31 Geneve Hendricks 29 21:11.16 Brenda Tomtan 25 21:25.17 Mary Hayes 29 • 50 M. BACKSTROKE 30.63 DIANE GRANER 89 32.34 Corinne Murphy 25 32.58 Jill Chasson 29 32.60 Bridget Coll 28 33.35 Julie Moody 28 33.78 Jane Cairns 28 35.27 Jennifer Scalise 27 35.96 Michele Fox 29 36.01 Erika M Leetmae 27 36.36 Linda Hegeberg 28 36.65 Suzanne Dearworth 28 • 100 M. BACKSTROKE 1:04.66 DIANE GRANER 89 1:09.50 Corinne Murphy 25 1:10.44 Kathleen Hartnett 26 1:10.87 Julie Moody 28 1:11.11 Bridget Coll 28 1:11.53 Jane Cairns 28 1:17.64 Suzanne Dearworth 28 1:17.65 Michele Co 28 				
WOMEN 25-29							
<ul style="list-style-type: none"> • 50 M. FREESTYLE 26.63 HEATHER HAGEMAN 97 26.85 Heather Hageman 28 28.17 Dori L Kaufman 29 29.18 Kelly Donovan 28 29.34 Bridget Coll 28 29.41 Kathleen Hartnett 26 29.43 Jackie Dunklee 25 29.48 Kari Andersson 26 29.64 Louise Martin 29 29.81 Karin Gardner 29 29.90 Eunice Ching 27 • 100 M. FREESTYLE 56.30 SHEILA TAORMINA 96 1:02.36 Kathleen Hartnett 26 							

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

1:19.66 Linda Hegeber 27	2:29.32 Jennifer Ridge 29	2:15.85 Jane E West 32	• 50 M. BREASTSTROKE
1:20.43 Michele Fox 29	2:30.19 Nicola Latty 27	2:17.39 Lisa Hjerpe 30	34.71 K PIPES-NEILSEN 96
1:20.84 Jane Springer 28	2:33.41 Jane Cairns 28	2:17.60 Jennifer Jacobs 30	37.26 Therese Kominski 30
• 200 M. BACKSTROKE	2:39.19 Shauna Simpson 27	2:19.25 Mary Ellen Powers 32	38.14 Kathy E Waggoner 31
2:20.66 DIANE GRANER 89	2:40.18 Bridget Coll 28	2:22.48 Mary Dore 34	38.17 Michele Roy 34
2:31.33 Bridget Coll 28	2:41.71 Eunice Ching 27	2:23.90 Monica Barry 34	38.56 Debbie M Schultz 30
2:32.02 Jane Cairns 28	2:49.73 Mary Ryan 27	• 400 M. FREESTYLE	39.02 Paula Beaumont 31
2:32.26 Kathleen Hartnett 26	2:50.03 Ann Hill 29	4:22.70 K PIPES-NEILSEN 96	39.28 Jennifer Jones 32
2:32.33 Corinne Murphy 25	2:54.58 Yuriko Poehlman 29	4:38.41 Laurie Hug 30	39.68 Jill Lemone 32
2:36.80 Michelle Davidson 28	• 100 M. INDIVIDUAL MEDLEY	4:38.76 Jane E West 32	39.71 Carole Kammel 30
2:40.37 Katherine Veazey 25	1:05.67 WENKE HANSEN 98	4:40.82 Nancy North 30	40.52 Laurie Ellis 34
2:43.86 Kerrie Ryan 28	1:05.67 Wenke Hansen 29	4:42.82 Charlott Petersen 34	40.52 Kristin A Olnes 31
2:45.93 Erika M Leetmae 27	1:08.63 Jennifer Ridge 29	4:44.79 Susie Devlin 31	• 100 M. BREASTSTROKE
2:48.50 Michele Fox 29	1:11.02 Jill Chasson 29	4:47.84 Nadine Bowen 31	1:15.85 K PIPES-NEILSEN 96
2:52.72 Jane Springer 28	1:11.08 Kari Andersson 26	4:50.86 Jennifer Jacobs 30	1:21.99 Kathy E Waggoner 31
• 50 M. BREASTSTROKE	1:11.55 Linda Visser 28	4:57.75 Louise Buckley 31	1:23.15 Leslie Ochs 34
32.20 TRACEY MIRANDE 95	1:11.60 Julie Moody 28	4:58.83 Tiffany Forbes 31	1:23.46 Michele Roy 34
33.86 Wenke Hansen 29	1:12.19 Sheila Conway 25	5:00.55 Marion Salopek 33	1:23.57 Geneve Hendricks 30
35.67 Louise Martin 29	1:12.25 Corinne Murphy 25	• 800 M. FREESTYLE	1:23.75 Janet Harris 33
35.73 Jill Chasson 29	1:12.56 Kathleen Hartnett 26	9:08.34 K PIPES-NEILSEN 96	1:24.02 Lisa Hjerpe 30
37.59 Jackie Dunklee 25	1:12.85 Heather Hageman 28	9:34.71 Laurie Hug 30	1:24.45 Debbie M Schultz 30
37.81 Joanne Reiersen 27	• 200 M. INDIVIDUAL MEDLEY	9:45.71 Nancy North 30	1:25.56 Jill Lemone 32
37.94 Linda Hegeber 28	2:21.79 WENKE HANSEN 98	10:29.93 Jeanne Clark 32	1:26.15 Kristin A Olnes 31
38.55 Lauren Lindbald 25	2:21.79 Wenke Hansen 29	10:31.53 Kristine Jarecki 33	1:27.84 Lorna J Cialdella 33
38.56 Penny Guerra 25	2:28.22 Jennifer Ridge 29	10:33.83 Juliet E Cox 30	• 200 M. BREASTSTROKE
38.77 Carole R Kammel 29	2:34.08 Sheila Conway 25	10:40.78 Gloria Nemet 34	2:46.47 K PIPES-NEILSEN 96
38.90 Geneve Hendricks 29	2:34.94 Kathleen Hartnett 26	10:46.19 Lucy Shearn 30	2:58.89 Lisa Hjerpe 30
• 100 M. BREASTSTROKE	2:35.42 Jane Cairns 28	10:49.73 Carole Kammel 30	3:00.31 Laurie Hug 30
1:13.30 WENKE HANSEN 98	2:42.02 Yuriko Poehlman 29	11:01.53 Adrienne Seal 33	3:01.72 Paula Beaumont 31
1:13.30 Wenke Hansen 29	2:42.65 Linda Hegeber 28	11:03.66 J Brisker 33	3:02.45 Debbie M Schultz 30
1:17.36 Jill Chasson 29	2:43.72 Rachel Frenstos 27	• 1500 M. FREESTYLE	3:02.59 Michele Roy 34
1:17.90 Louise Martin 29	2:43.92 Julie Moody 28	17:23.60 KAREN BURTON 94	3:03.00 Jill Lemone 32
1:19.70 Sheila Conway 25	2:44.26 Jackie Dunklee 25	18:22.63 Laurie Hug 30	3:03.77 Melissa Kerker 33
1:20.31 Jackie Dunklee 25	• 400 M. INDIVIDUAL MEDLEY	18:39.90 Nancy North 30	3:05.80 Tina Neill 32
1:20.44 Linda Visser 28	5:02.54 WENKE HANSEN 98	20:09.68 Julie Walsh 32	3:06.25 Lorna J Cialdella 33
1:21.34 Joanne Reiersen 27	5:02.54 Wenke Hansen 29	20:17.99 Lucy Shearn 30	3:07.35 Gloria Nemet 34
1:22.14 Linda Hegeber 28	5:11.56 Jennifer Ridge 29	20:26.78 Gloria Nemet 34	• 50 M. BUTTERFLY
1:22.98 Lauren Lindbald 25	5:22.94 Nicola Latty 27	20:41.33 Adrienne Seal 33	29.20 D GRANER GALLAS 96
1:24.53 Carole R Kammel 29	5:39.13 Katherine Veazey 25	21:05.61 Karin Gardner 33	29.29 Tracie Moll 34
• 200 M. BREASTSTROKE	5:41.72 Megumi Masuda 25	21:05.77 Ann Welage 32	31.43 Nancy North 30
2:39.62 WENKE HANSEN 98	5:47.73 Suzanne Dearworth 28	22:17.82 Dana M Hunter 34	31.53 Michele Chow 31
2:39.62 Wenke Hansen 29	5:48.60 Ann Hill 29	22:31.36 Nessa Hawkins 34	31.65 Faith Sherlock 34
2:47.36 Jill Chasson 29	5:52.28 Stephanie Wriede 28	• 50 M. BACKSTROKE	31.71 Christin Kanazawa 31
2:47.90 Louise Martin 29	5:58.18 Elizabeth Irving 25	30.14 D.GRANER GALLAS 96	31.80 V G Weichert 31
2:51.73 Stephanie Wriede 28	6:02.45 Tracey Mc Lachlan 26	32.40 A Luallen-Scholz 33	31.81 Jeanne Clark 32
2:53.50 Joanne Reiersen 27		33.52 Joan A Schriger 33	31.85 Kerri Daniels 34
2:56.49 Linda Visser 28		34.71 Catherine Green 33	32.03 A Luallen-Scholz 33
2:58.93 Lauren Lindbald 25		35.05 Jennifer Jacobs 30	32.13 Kathryn Kirmayer 34
3:01.49 Mary Ryan 27		35.14 Tami A Carlow 31	• 100 M. BUTTERFLY
3:01.63 Suzanne Dearworth 28		35.44 Lisa Hjerpe 30	1:03.80 K PIPES-NEILSEN 96
3:02.92 Geneve Hendricks 29		35.50 Jeanne Clark 32	1:04.26 Tracie Moll 34
• 50 M. BUTTERFLY		35.51 Tina Neill 32	1:10.06 Nancy North 30
28.68 SHEILA TAORMINA 96		35.70 Peggy Schmidt 34	1:10.60 A Luallen-Schol 33
29.53 Wenke Hansen 29		35.72 Jennifer Lakins 32	1:11.90 Tiffany Forbes 31
30.75 Heather Hageman 28		• 100 M. BACKSTROKE	1:12.60 Jill Lemone 32
30.85 Sheila Conway 25		1:03.36 K PIPES-NEILSEN 96	1:12.99 Joan A Schriger 33
31.65 Kathleen Hartnett 26		1:09.39 A Luallen-Schol 33	1:13.70 Valerie Weichert 31
32.01 Linda Visser 28		1:09.57 Susie Devlin 31	1:13.89 Mary Ellen Powers 32
32.30 Dori L Kaufman 29		1:11.79 Kathryn Kirmayer 34	1:14.02 Jeanne Clark 32
32.50 Bridget Coll 28		1:12.35 Lisa A Ward 34	1:14.03 Lorna J Cialdella 33
32.68 Erika M Leetmae 27		1:13.85 Jennifer Jacobs 30	• 200 M. BUTTERFLY
32.73 Jennifer Scalise 27		1:14.76 Catherine Green 33	2:19.64 K PIPES-NEILSEN 96
33.10 Eunice Ching 27		1:15.25 Mary Ellen Powers 32	2:26.45 Tracie Moll 34
• 100 M. BUTTERFLY		1:15.54 Christine Vess 33	2:33.82 Nancy North 30
1:01.33 SHEILA TAORMINA 96		1:15.76 Lorna J Cialdella 33	2:34.62 Laurie Hug 30
1:06.72 Jennifer Ridge 29		1:16.33 Marion Salopek 33	2:35.76 Jill Lemone 32
1:07.86 Wenke Hansen 29		• 200 M. BACKSTROKE	2:47.30 Lisa Hjerpe 30
1:09.57 Ruth Tanenbaum 28		2:13.51 K PIPES-NEILSEN 96	2:47.46 Karen Schoenhals 30
1:09.89 Sheila Conway 25		2:31.76 A Luallen-Schol 33	2:48.41 Tina Neill 32
1:10.92 Bridget Coll 28		2:35.37 Nancy North 30	2:55.14 Etta Andrews 34
1:11.24 Linda Visser 28		2:36.29 Tina Neill 32	2:55.48 Mary Dore 34
1:11.82 Eunice Ching 27		2:38.39 Laurie Hug 30	2:59.09 Barbara Kolitsch 32
1:11.92 Shauna Simpson 27		2:44.70 Catherine Green 33	• 100 M. INDIVIDUAL MEDLEY
1:13.23 Erika M Leetmae 27		2:45.47 Christine Vess 33	1:05.16 K PIPES-NEILSEN 95
1:14.03 Mary Ryan 27		2:46.35 Marion Salopek 33	1:11.54 Michele Chow 30
• 200 M. BUTTERFLY		2:46.83 Linda Haus 30	1:12.11 A Luallen-Schol 33
2:28.67 KAREN BURTON 91		2:47.19 Teri Lhost 33	1:12.38 Lisa Hjerpe 30
2:25.73 Sheila Taormina 29NV		2:49.39 J Brisker 33	1:14.10 Darci Johnson 30

WOMEN 30-34

• 50 M. FREESTYLE	26.46 ANNA PETTIS-SCOTT 93
	26.90 Tracie Moll 34
	28.24 Kathryn Kirmayer 34
	28.28 Michele Chow 30
	28.63 Richa Kleiman 30
	28.93 Jeanne Clark 32
	28.94 Linda Haus 30
	29.01 Charlott Petersen 34
	29.45 Nancy North 30
	29.46 Jennifer Jones 32
	29.62 Kerri Daniels 34
• 100 M. FREESTYLE	57.35 S. NEILSON-BELL 88
	59.45 Tracie Moll 34
	1:02.31 Charlott Petersen 34
	1:02.72 Kathryn Kirmayer 34
	1:03.15 Jennifer Jacobs 30
	1:03.20 Nancy North 30
	1:03.44 Jeanne Clark 32
	1:03.84 Lisa Hjerpe 30
	1:04.24 Nadine Bowen 31
	1:04.77 Monica Barry 34
	1:05.45 Mary Dore 34
• 200 M. FREESTYLE	2:04.64 K PIPES-NEILSEN 96
	2:09.72 Tracie Moll 34
	2:14.00 Charlott Petersen 34
	2:14.58 Nancy North 30
	2:15.33 Laurie Hug 30

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

1:14.38 Michele Roy	34	5:07.50 D Fisher Shoemake	35	1:19.11 K Pipes-Neilsen	36	2:46.02 Vicki Hoffman	36
1:14.43 Laurie Hug	30	5:10.30 Penny Bates	36	1:21.62 Beth Scheimann	36	2:46.30 Penny Bates	36
1:14.64 CJ Lockman Hall	33	5:11.21 Amy Pope	38	1:23.19 Jann Girard	38	2:51.11 Hayley Cort	37
1:14.96 Leslie Ochs	34	• 800 M. FREESTYLE		1:24.13 Dara Wilber	38	• 400 M. INDIVIDUAL MEDLEY	
1:15.40 Janet Harris	33	9:15.40 K PIPES-NEILSEN	98	1:24.15 Cokie Lepinski	39	4:52.85 K PIPES-NEILSEN	97
1:16.45 Joan A Schriger	33	9:15.40 K Pipes-Neilsen	36	1:24.36 Susan Richmond	37	4:54.62 K Pipes-Neilsen	36
• 200 M. INDIVIDUAL MEDLEY		10:05.82 Cathy Shonkwiler	38	1:26.89 Leslie Stanley	37	5:45.94 Nancy J Rose	37
2:18.79 K PIPES-NEILSEN	96	10:16.03 Nancy J Rose	37	1:27.49 Becky Oblatz	39	5:50.29 Dara Wilber	38
2:34.79 Lisa A Ward	34	10:17.59 Caroline Krattli	36	1:27.93 Laurie Ellis	35	5:51.54 Penny Bates	36
2:35.90 Laurie Hug	30	10:31.32 Amy Pope	38	• 200 M. BREASTSTROKE		5:59.95 Susan Mendez	36
2:36.13 A Luallen-Schol	33	10:55.34 Lisa Pratte	36	2:43.61 CAROLINE KRATTLI	98	6:08.77 Rene James	35
2:38.58 Nancy North	30	10:59.21 Mary Ellen Anders	35	2:43.61 Caroline Krattli	36	6:16.12 Karen Gleason	38
2:38.81 Lisa Hjerpe	30	11:00.72 Karen Smyers	37	2:48.66 K Pipes-Neilsen	36	6:22.64 Denise L Smart	35
2:39.30 Susie Devlin	31	11:07.88 Laura Kessler	38	3:00.30 Cokie Lepinski	39	6:24.85 Joanne Steinauer	35
2:41.16 Jill Lemone	32	11:08.73 Denise L Smart	35	3:01.05 Susan Richmond	37	6:29.46 Frances H Reneau	39
2:41.91 CJ Lockman Hall	33	• 1500 M. FREESTYLE		3:01.21 Dara Wilber	38		
2:42.54 Jane E West	32	17:40.20 K PIPES-NEILSEN	98	3:05.73 Leslie Stanley	37	WOMEN 40-44	
2:43.59 Gail Jacobs	31	17:40.20 K Pipes-Neilsen	36	3:07.65 Amy Pope	38	• 50 M. FREESTYLE	
• 400 M. INDIVIDUAL MEDLEY		19:09.10 Cathy Shonkwiler	38	3:08.11 Becky Oblatz	39	26.66 S.NEILSON-BELL	96
4:53.85 K PIPES-NEILSEN	96	19:40.26 Caroline Krattli	36	3:08.13 Hayley Cort	37	28.27 S Neilson-Bell	42
5:26.54 Laurie Hug	30	19:41.47 Amy Pope	38	3:09.49 Leslie Cooper	38	29.68 Mary Hughes	40
5:27.01 Nancy North	30	20:14.88 Leslie J Henshaw	39	• 50 M. BUTTERFLY		30.02 Suzann Heim-Bowen	40
5:33.02 Lisa A Ward	34	20:47.70 Karen Smyers	37	29.87 K PIPES-NEILSEN	97	30.31 Barb Handler	41
5:33.33 A Luallen-Schol	33	20:51.46 Peggy Speight	37	30.07 K Pipes-Neilsen	36	30.41 Marilyn Fink	44
5:34.45 Jill Lemone	32	20:54.55 Lisa Pratte	36	31.37 Cathy Shonkwiler	38	30.44 Lisa Bennett	42
5:44.41 Tina Neill	32	20:56.51 Laura Kessler	38	31.50 Beth Scheimann	36	30.53 Marilyn Early	40
5:47.20 Emily Watts	31	21:01.68 Abigail Falk	37	31.62 Caroline Krattli	36	30.55 Debbie Glassman	44
5:53.44 Barbara Kolitsch	32	• 50 M. BACKSTROKE		31.82 Susan Mendez	36	30.61 Carol-Ann Hudson	41
5:56.72 Gloria Nemet	34	30.94 K PIPES-NEILSEN	98	32.00 Beth O Baker	37	30.67 Meg May	40
5:56.83 Etta Andrews	34	30.94 K Pipes-Neilsen	36	32.06 Kathy Frazier	38	• 100 M. FREESTYLE	
		33.53 Cathy Shonkwiler	38	32.70 Roberta Norwood	39	59.83 S.NEILSON-BELL	96
WOMEN 35-39		33.55 Caroline Krattli	36	33.29 Amy Pope	38	1:03.01 Suzann Heim-Bowen	40
• 50 M. FREESTYLE		34.55 Carolyn Mathews	36	33.33 Mary Ellen Anders	35	1:03.17 S Neilson-Bell	42
26.13 S. NEILSON-BELL	95	35.39 Peggy Schmidt	35	• 100 M. BUTTERFLY		1:04.16 Melinda Schmitt	40
27.50 K Pipes-Neilsen	36	36.30 Kathy Frazier	38	1:03.29 K PIPES-NEILSEN	97	1:05.69 Jennifer Luker	42
28.19 Beth Scheimann	36	36.30 Susan Kominowski	39	1:04.83 K Pipes-Neilsen	36	1:06.49 Marilyn Early	40
28.59 Cathy Shonkwiler	38	36.74 J Bourguignon	39	1:11.09 Cathy Shonkwiler	38	1:07.48 Marilyn Fink	43
28.95 Caroline Krattli	36	37.26 Rene James	35	1:11.96 Terri Natali	38	1:07.53 Pam Martin	41
29.60 Gina Marie Gatti	35	37.58 Paula Pollard	35	1:11.98 Beth O Baker	37	1:08.01 Meg May	40
29.83 Kathy Frazier	38	• 100 M. BACKSTROKE		1:12.18 Kathy Frazier	38	1:08.36 Jenifer Slonaker	40
30.12 Tanya Hanson	37	1:03.56 K PIPES-NEILSEN	97	1:12.47 Susan Mendez	36	1:08.56 Barb Handler	41
30.23 Nancy Servo	37	1:04.03 K Pipes-Neilsen	36	1:12.67 Beth Scheimann	36	• 200 M. FREESTYLE	
30.25 Susan Mendez	36	1:09.08 Vibeke Swanson	36	1:13.68 Jann Girard	38	2:13.58 S HEIM-BOWEN	98
30.47 Kristin Henderson	38	1:12.66 Beth O Baker	37	1:14.09 Caroline Krattli	36	2:13.58 Suzann Heim-Bowen	40
• 100 M. FREESTYLE		1:13.76 Caroline Krattli	36	1:14.91 Nancy J Rose	37	2:29.36 Tracy Grilli	41
57.71 S. NEILSON-BELL	94	1:15.25 Cathy Shonkwiler	38	• 200 M. BUTTERFLY		2:29.83 Lisa Bennett	42
58.90 K Pipes-Neilsen	36	1:16.18 Carolyn Mathews	36	2:18.41 K PIPES-NEILSEN	97	2:30.95 Meg May	40
1:02.74 Vibeke Swanson	36	1:16.55 Mary Llew Anders	35	2:19.55 K Pipes-Neilsen	36	2:31.02 Jenifer Slonaker	40
1:02.99 Beth Scheimann	36	1:18.39 Jann Girard	38	2:43.11 Nancy J Rose	37	2:33.23 Anita M Callahan	40
1:03.14 Cathy Shonkwiler	38	1:19.28 Kathy Frazier	38	2:51.50 Penny Bates	37	2:33.60 Jo Ann Harrelson	42
1:05.51 Caroline Krattli	36	1:19.87 Susan Kominowski	39	2:54.53 Peggy Brannon	38	2:34.25 Joanne Wainwright	43
1:05.97 Jann Girard	38	• 200 M. BACKSTROKE		2:56.39 D Fisher Shoemake	35	2:34.83 Barb Handler	41
1:06.14 D Fisher Shoemake	35	2:14.10 K PIPES-NEILSEN	97	2:58.67 Karen Gleason	38	2:36.75 Rebecca Pyle	42
1:06.29 Amy Pope	38	2:15.33 K Pipes-Neilsen	36	2:59.27 Joanne Steinauer	35	• 400 M. FREESTYLE	
1:06.35 Kathlee Tetreault	37	2:31.04 Vibeke Swanson	36	3:09.70 Abigail Falk	37	4:34.83 S HEIM-BOWEN	98
1:06.47 Kathy Frazier	38	2:33.96 Caroline Krattli	36	3:09.97 Paula Lessard	35	4:34.83 Suzann Heim-Bowen	40
• 200 M. FREESTYLE		2:38.84 Beth O Baker	37	3:14.88 Frances H Reneau	39	5:05.84 Katherine Branch	41
2:03.56 K PIPES-NEILSEN	97	2:43.80 Peggy Schmidt	35	• 100 M. INDIVIDUAL MEDLEY		5:10.83 Wanda Brown	41
2:05.43 K Pipes-Neilsen	36	2:45.77 Carolyn Mathews	36	1:05.74 K PIPES-NEILSEN	98	5:13.58 Sara Curran	44
2:17.38 Vibeke Swanson	36	2:45.88 D Fisher Shoemake	35	1:05.74 K Pipes-Neilsen	36	5:14.47 Melinda Schmitt	40
2:17.45 Caroline Krattli	36	2:46.49 Penny Bates	36	1:09.17 Caroline Krattli	36	5:14.99 Heidi Christensen	40
2:18.56 Beth Scheimann	36	2:47.39 Terri Natali	38	1:12.81 Vibeke Swanson	36	5:15.73 Tracy Grilli	41
2:18.68 Cathy Shonkwiler	38	2:50.21 Paula Lessard	35	1:13.88 Beth O Baker	37	5:19.67 Meg May	40
2:21.43 Amy Pope	38	• 50 M. BREASTSTROKE		1:13.98 Cathy Shonkwiler	38	5:23.12 Betty Levine	40
2:22.94 Melinda Schmitt	39	34.59 CAROLINE KRATTLI	98	1:15.82 Paula Pollard	35	5:23.26 Jo Ann Harrelson	42
2:23.89 Andrea Nauta	39	34.59 Caroline Krattli	36	1:15.97 Melinda Schmitt	39	• 800 M. FREESTYLE	
2:24.56 Lori Payne	39	36.24 K Pipes-Neilsen	36	1:16.00 Susan Mendez	36	9:29.90 S HEIM-BOWEN	98
2:24.61 Kerri Culberson	39	36.83 Beth Scheimann	36	1:16.61 Dara Wilber	38	9:29.90 Suzann Heim-Bowen	40
• 400 M. FREESTYLE		38.79 Susan Richmond	37	1:16.80 Vicki Hoffman	36	10:24.03 Heidi Christensen	40
4:24.01 K PIPES-NEILSEN	97	38.81 Cokie Lepinski	39	• 200 M. INDIVIDUAL MEDLEY		10:32.46 Wanda Brown	41
4:26.61 K Pipes-Neilsen	36	39.02 Dara Wilber	38	2:20.79 K PIPES-NEILSEN	98	10:36.90 Huddie Murray	41
4:58.98 Caroline Krattli	36	39.31 Maud Orlando	35	2:20.79 K Pipes-Neilsen	36	10:55.50 Pam Martin	41
5:00.88 Lori Payne	39	39.44 Leslie Cooper	38	2:32.60 Caroline Krattli	36	10:56.83 Melinda Schmitt	40
5:01.93 Beth Scheimann	36	40.00 Laura Kessler	38	2:38.88 Gina Marie Gatti	35	10:58.69 Jo Ann Harrelson	42
5:03.27 Kerri Culberson	39	40.06 Caroline Donnelly	36	2:39.09 Jann Girard	38	11:07.85 Tracy Grilli	41
5:04.06 Kathlee Tetreault	37	• 100 M. BREASTSTROKE		2:42.94 Amy Pope	38	11:16.58 Stephanie Kessler	41
5:07.00 Nancy J Rose	37	1:15.65 K PIPES-NEILSEN	97	2:44.17 Dara Wilber	38	11:27.21 Christie Ciraulo	44
		1:16.61 Caroline Krattli	36	2:45.95 Susan Mendez	36		

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

<p>• 1500 M. FREESTYLE</p> <p>18:02.62 S HEIM-BOWEN 98</p> <p>18:02.62 Suzann Heim-Bowen 40</p> <p>19:53.50 Heidi Christensen 40</p> <p>19:55.23 Wanda Brown 41</p> <p>20:21.47 Pam Martin 41</p> <p>20:49.09 Jo Ann Harrelson 42</p> <p>21:00.12 Melinda Schmitt 40</p> <p>21:06.60 Tracy Grilli 41</p> <p>21:08.21 N Steadman-Martin 44</p> <p>21:49.59 Laurie Alioto 40</p> <p>22:00.59 Marilyn Early 40</p> <p>• 50 M. BACKSTROKE</p> <p>31.55 LAURA VAL 93</p> <p>35.23 Carole Shigaki 43</p> <p>35.41 Ann Guins 44</p> <p>35.69 Carol Pflugheber 44</p> <p>36.12 Tracy Grilli 41</p> <p>36.28 Marilyn Fink 44</p> <p>36.30 Mary Hughes 40</p> <p>36.41 Judy Tibma 42</p> <p>36.56 Debbie Cavanaugh 40</p> <p>36.67 Katherine Branch 41</p> <p>37.01 Kim Goodwin 40</p> <p>• 100 M. BACKSTROKE</p> <p>1:10.45 LAURA VAL 95</p> <p>1:14.63 Patty Landers 42</p> <p>1:16.68 Carole Shigaki 43</p> <p>1:17.37 Marilyn Fink 44</p> <p>1:17.68 Marilyn Early 40</p> <p>1:18.62 Melinda Grieg 41</p> <p>1:19.19 Debbie Cavanaugh 40</p> <p>1:19.41 Ann Guins 44</p> <p>1:19.48 Kim Goodwin 40</p> <p>1:21.31 Carol Pflugheber 44</p> <p>1:21.48 Susan Blattner 41</p> <p>• 200 M. BACKSTROKE</p> <p>2:34.04 LAURA VAL 95</p> <p>2:43.67 Katherine Branch 41</p> <p>2:50.82 Kim Goodwin 40</p> <p>2:53.89 N Steadman-Martin 44</p> <p>2:53.98 Carole Shigaki 43</p> <p>2:56.51 Debbie Cavanaugh 40</p> <p>2:57.72 Carol Pflugheber 44</p> <p>2:58.64 K Nisley-Black 43</p> <p>2:58.82 Susan Blattner 41</p> <p>3:01.01 Emmy Klassen 40</p> <p>3:02.86 Ann Guins 44</p> <p>• 50 M. BREASTSTROKE</p> <p>37.21 LISA BENNETT 96</p> <p>37.33 Melinda Mann 42</p> <p>37.34 Lisa Bennett 42</p> <p>39.22 Judy Tibma 42</p> <p>39.40 Jill Whitney 41</p> <p>39.66 Eileen A Wall 40</p> <p>39.87 Jennifer Luker 42</p> <p>40.31 Mary Jackson 42</p> <p>40.36 Debbie Cavanaugh 40</p> <p>40.55 Meg May 40</p> <p>40.56 Amy B Cooley 41</p> <p>• 100 M. BREASTSTROKE</p> <p>1:21.44 JUDY TIBMA 96</p> <p>1:21.61 Melinda Mann 42</p> <p>1:23.16 Lisa Bennett 42</p> <p>1:24.02 Judy Tibma 42</p> <p>1:24.62 Eileen A Wall 40</p> <p>1:27.02 Jill Whitney 41</p> <p>1:29.02 Jo Ann Harrelson 42</p> <p>1:29.47 Mary Jackson 42</p> <p>1:29.49 Meg May 40</p> <p>1:29.98 Kim Goodwin 40</p> <p>1:30.04 Debbie Cavanaugh 40</p> <p>• 200 M. BREASTSTROKE</p> <p>2:54.12 GAYLE BENTY 92</p> <p>3:00.65 Judy Tibma 42</p> <p>3:01.97 Melinda Mann 42</p> <p>3:03.72 Huddie Murray 41</p> <p>3:04.91 Eileen A Wall 40</p>	<p>3:09.84 Carole Shigaki 43</p> <p>3:09.88 Jo Ann Harrelson 42</p> <p>3:12.83 Jill Whitney 41</p> <p>3:13.99 Kim Goodwin 40</p> <p>3:14.65 Kathleen Pearson 40</p> <p>3:16.01 Lisa Bennett 42</p> <p>• 50 M. BUTTERFLY</p> <p>30.17 LAURA VAL 95</p> <p>31.40 Jennifer Luker 42</p> <p>31.80 Suzann Heim-Bowen 40</p> <p>32.89 Mary Hughes 40</p> <p>33.00 Debbie Glassman 44</p> <p>34.02 Laura Worden 41</p> <p>34.44 Barb Handler 41</p> <p>34.54 Lisa Bennett 42</p> <p>34.54 Carole Shigaki 43</p> <p>34.61 Judy Tibma 42</p> <p>34.77 Meg May 40</p> <p>• 100 M. BUTTERFLY</p> <p>1:06.86 LAURA VAL 93</p> <p>1:10.01 Suzann Heim-Bowen 40</p> <p>1:15.45 Laura Worden 41</p> <p>1:17.45 Jennifer Luker 42</p> <p>1:17.65 Elaine Fincham 43</p> <p>1:17.97 Joanne Wainwright 43</p> <p>1:18.14 Barb Handler 41</p> <p>1:19.31 Debra Glassman 44</p> <p>1:20.60 Melinda Grieg 41</p> <p>1:20.98 N Steadman-Martin 44</p> <p>1:22.00 Laurie Alioto 40</p> <p>• 200 M. BUTTERFLY</p> <p>2:29.19 LAURA VAL 93</p> <p>2:49.67 Laura Worden 41</p> <p>2:54.38 Laurie Alioto 40</p> <p>2:54.70 Joanne Wainwright 43</p> <p>2:59.50 Rebecca Pyle 42</p> <p>3:00.51 Jo Ann Harrelson 42</p> <p>3:03.72 Michele Devitt 41</p> <p>3:10.27 Pam Beck 41</p> <p>3:26.76 Stephanie Kessler 41</p> <p>3:26.86 Pam Allen 42</p> <p>3:27.40 Elspeth L Farmer 40</p> <p>• 100 M. INDIVIDUAL MEDLEY</p> <p>1:11.65 LAURA VAL 92</p> <p>1:12.40 S Neilson-Bell 42</p> <p>1:15.97 Jennifer Luker 42</p> <p>1:16.66 Mary Hughes 40</p> <p>1:17.25 Judy Tibma 42</p> <p>1:17.52 Tracy Grilli 41</p> <p>1:17.55 Melinda Grieg 41</p> <p>1:17.67 Lisa Bennett 42</p> <p>1:17.94 Carole Shigaki 43</p> <p>1:18.16 Mary Jackson 42</p> <p>1:18.76 Jill Whitney 41</p> <p>• 200 M. INDIVIDUAL MEDLEY</p> <p>2:33.89 LAURA VAL 92</p> <p>2:46.58 Pam Martin 41</p> <p>2:50.94 Meg May 40</p> <p>2:52.00 Eileen A Wall 40</p> <p>2:53.27 Tracy Grilli 41</p> <p>2:54.08 Elaine Fincham 43</p> <p>2:55.73 Laura Worden 41</p> <p>2:56.28 Laurie Alioto 40</p> <p>2:56.96 Jo Ann Harrelson 42</p> <p>2:57.30 Jill Whitney 41</p> <p>2:59.89 Debbie Kunow 42</p> <p>• 400 M. INDIVIDUAL MEDLEY</p> <p>5:32.53 LAURA VAL 92</p> <p>5:45.83 Suzann Heim-Bowen 40</p> <p>5:46.63 Huddie Murray 41</p> <p>6:04.21 Jo Ann Harrelson 42</p> <p>6:08.86 Laurie Alioto 40</p> <p>6:13.24 Michele Devitt 41</p> <p>6:20.58 Tracy Grilli 41</p> <p>6:23.83 Patricia Thomas 40</p> <p>6:28.15 Pam Beck 41</p> <p>6:28.40 Beverly Amick 44</p> <p>6:30.85 Stephanie Kessler 41</p>	<p>WOMEN 45-49</p> <p>• 50 M. FREESTYLE</p> <p>28.37 JACKI HIRSTY 97</p> <p>28.42 Laura Val 47</p> <p>28.82 Jacki Hirsty 46</p> <p>29.97 Danielle Ogier 46</p> <p>30.21 Karlene Wise 45</p> <p>30.57 R Brittingham 47</p> <p>31.06 Colny Tucker 47</p> <p>31.91 Denise Kirwan 46</p> <p>31.99 Debbie Bradbury 47</p> <p>32.16 Ann Guins 45</p> <p>32.32 Virginia Langmuir 46</p> <p>• 100 M. FREESTYLE</p> <p>1:02.00 LAURA VAL 98</p> <p>1:02.00 Laura B Val 46</p> <p>1:05.09 Danielle Ogier 46</p> <p>1:07.59 Karlene Wise 45</p> <p>1:08.04 R Brittingham 47</p> <p>1:09.34 Barbara Dunbar 49</p> <p>1:10.45 Colny Tucker 47</p> <p>1:11.34 Jonelle Schmidt 47</p> <p>1:12.51 Sherry Kittrell 46</p> <p>1:12.57 Virginia Langmuir 46</p> <p>1:12.95 Ann Guins 45</p> <p>• 200 M. FREESTYLE</p> <p>2:16.83 LAURA VAL 97</p> <p>2:16.99 Laura B Val 46</p> <p>2:20.20 Danielle Ogier 46</p> <p>2:21.47 Jacki Hirsty 46</p> <p>2:28.81 Barbara Dunbar 49</p> <p>2:31.20 Karlene Wise 45</p> <p>2:33.72 R Brittingham 47</p> <p>2:40.65 Debbie Bradbury 47</p> <p>2:41.22 Pam Geiger 45</p> <p>2:42.04 Christie Ciraulo 45</p> <p>2:42.22 Diane Rothenberg 45</p> <p>• 400 M. FREESTYLE</p> <p>4:49.52 LAURA VAL 98</p> <p>4:49.52 Laura B Val 46</p> <p>4:55.36 Danielle Ogier 46</p> <p>5:01.02 Jacki Hirsty 46</p> <p>5:05.08 Barbara Dunbar 49</p> <p>5:20.80 Karlene Wise 45</p> <p>5:28.46 Cynthia Jones 48</p> <p>5:30.69 Sherry Kittrell 46</p> <p>5:34.81 Jonelle Schmidt 47</p> <p>5:35.00 Christie Ciraulo 45</p> <p>5:44.81 Pam Geiger 45</p> <p>• 800 M. FREESTYLE</p> <p>10:08.72 DANIELLE OGIER 97</p> <p>10:23.17 Barbara Dunbar 49</p> <p>10:40.05 Nancy Fisher 47</p> <p>11:20.57 Karlene Wise 45</p> <p>11:22.03 Sherry Kittrell 46</p> <p>11:24.99 Jonelle Schmidt 47</p> <p>11:36.23 Christie Ciraulo 45</p> <p>11:44.00 Gail Kolbe 45</p> <p>12:13.23 Pam Geiger 45</p> <p>12:23.42 Nancy Puckett 49</p> <p>13:28.16 Linda Carstens 46</p> <p>• 1500 M. FREESTYLE</p> <p>18:55.82 LAURA VAL 98</p> <p>18:55.82 Laura B Val 46</p> <p>19:31.78 Danielle Ogier 46</p> <p>19:57.98 Nancy Fisher 47</p> <p>20:00.21 Barbara Dunbar 49</p> <p>21:07.53 Karlene Wise 45</p> <p>21:18.38 Sherry Kittrell 46</p> <p>21:24.30 Lyn Lemaire 47</p> <p>21:25.06 Cynthia Jones 48</p> <p>21:59.52 Christie Ciraulo 45</p> <p>22:11.94 Gail Kolbe 45</p> <p>• 50 M. BACKSTROKE</p> <p>32.74 LAURA VAL 97</p> <p>34.56 Nancy Fisher 47</p> <p>35.03 Ann Guins 45</p> <p>35.37 Karlene Wise 45</p> <p>36.68 R Brittingham 47</p> <p>37.21 Jan Pesavento 47</p> <p>38.06 Jonelle Schmidt 47</p> <p>39.48 Nancy Surdoval 45</p> <p>39.80 Katherine Casey 49</p> <p>39.89 Bonnie Johnston 46</p> <p>40.04 Tina Semonsen 46</p> <p>• 100 M. BACKSTROKE</p> <p>1:12.38 LAURA VAL 97</p> <p>1:18.18 Nancy Fisher 47</p> <p>1:18.83 Karlene Wise 45</p> <p>1:20.33 Jan Pesavento 47</p> <p>1:20.48 Ann Guins 45</p> <p>1:20.69 Denise Kirwan 46</p> <p>1:22.15 Jonelle Schmidt 47</p> <p>1:26.45 Virginia Langmuir 46</p> <p>1:26.77 Kathrine Casey 49</p> <p>1:26.85 Susan Ketchen 46</p> <p>1:27.61 Eileen Craffey 46</p> <p>• 200 M. BACKSTROKE</p> <p>2:36.79 CECILIA MCCLOSKEY 97</p> <p>2:42.38 Laura B Val 46</p> <p>2:46.59 Nancy Fisher 47</p> <p>2:50.63 Karlene Wise 45</p> <p>2:52.35 Denise Kirwan 46</p> <p>2:53.79 Jan Pesavento 47</p> <p>2:56.48 Jonelle Schmidt 47</p> <p>3:04.37 Ann Guins 45</p> <p>3:05.30 R Brittingham 47</p> <p>3:07.94 Kathrine Casey 49</p> <p>3:09.27 Nancy Surdoval 45</p> <p>• 50 M. BREASTSTROKE</p> <p>38.12 A WRIGHT-BELKNAT 96</p> <p>38.73 Danielle Ogier 46</p> <p>39.30 Deb Walker 47</p> <p>40.62 Krissy MacCurdy 46</p> <p>40.74 Jan Pesavento 47</p> <p>41.28 Jacki Hirsty 46</p> <p>41.73 Meegan Wilson 49</p> <p>42.04 Diane Rothenberg 45</p> <p>42.25 Elizabeth Cutter 45</p> <p>42.80 Kathrine Casey 49</p> <p>42.82 Lauren Burdick 45</p> <p>• 100 M. BREASTSTROKE</p> <p>1:23.20 DEB WALKER 96</p> <p>1:26.62 Danielle Ogier 46</p> <p>1:27.59 Krissy MacCurdy 46</p> <p>1:30.07 Jan Pesavento 47</p> <p>1:31.18 Meegan Wilson 49</p> <p>1:31.21 Diane Rothenberg 45</p> <p>1:32.41 Elizabeth Cutter 45</p> <p>1:33.97 Priscill Kawakami 48</p> <p>1:35.34 Linda Carstens 46</p> <p>1:35.65 Mary Sansbury 45</p> <p>1:35.91 Lauren Burdick 45</p> <p>• 200 M. BREASTSTROKE</p> <p>3:00.27 DANIELLE OGIER 97</p> <p>3:05.04 Deb Walker 47</p> <p>3:06.22 Danielle Ogier 46</p> <p>3:15.73 Jan Pesavento 47</p> <p>3:16.01 Diane Rothenberg 45</p> <p>3:20.88 Meegan Wilson 49</p> <p>3:21.77 A Wright-Belknap 48</p> <p>3:22.40 Priscill Kawakami 48</p> <p>3:24.89 Linda Carstens 45</p> <p>3:26.15 Lauren Burdick 45</p> <p>3:29.83 Katherine K Bass 46</p> <p>• 50 M. BUTTERFLY</p> <p>30.99 LAURA VAL 98</p> <p>30.99 Laura Val 47</p> <p>33.31 Jacki Hirsty 46</p> <p>33.57 R Brittingham 47</p> <p>33.89 Karlene Wise 45</p> <p>34.43 Carol Pflugheber 45</p> <p>34.50 Barbara Dunbar 49</p> <p>34.90 Krissy MacCurdy 46</p>
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1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

35.81 Dale Williams	46	36.47 Susan Ellis	51	1:29.47 Andrea M Haines	50	1:53.44 Vicki Buccino	52
36.31 Colny Tucker	47	100 M. FREESTYLE		1:29.85 Jeannie Mitchell	52	1:54.95 Ann Onton	54
36.53 Christie Ciraulo	45	1:06.41 ARDETH MUELLER	91	1:29.93 Christine Zimmet	50	200 M. BUTTERFLY	
100 M. BUTTERFLY		1:12.17 F Williamson	50	1:31.12 Ginger Pierson	52	2:55.91 ARDETH MUELLER	95
1:08.70 LAURA VAL	98	1:13.04 Marcia Barry	50	1:31.44 Constance Sasser	52	3:19.16 Ginger Pierson	52
1:08.70 Laura B Val	46	1:13.16 Jackie Marr	54	1:31.63 Mary Pohlmann	53	3:33.51 Christine Zimmet	50
1:15.17 Barbara Dunbar	49	1:16.41 Ginger Pierson	52	1:32.42 Chris S Weber	50	3:42.01 Mary Pohlmann	53
1:16.50 Krissy MacCurdy	46	1:16.42 Linda McHenry	51	200 M. BACKSTROKE		3:45.41 Edith Jacobsen	51
1:18.17 Karlene Wise	45	1:17.77 Sandi Rousseau	51	2:48.88 ARDETH MUELLER	91	3:46.54 Catherine Brooks	50
1:18.71 R Brittingham	47	1:17.90 Diana Leake	51	3:08.71 Kathrine Casey	50	3:56.17 Constance Sasser	52
1:23.08 Dale Williams	46	1:18.22 Susan Yeomans	50	3:11.30 Marcia Barry	50	4:01.85 Winifred Prall	50
1:24.07 Christie Ciraulo	45	1:20.44 Ruth Bennett	51	3:13.78 Mary Pohlmann	53	4:02.35 Mary Lou Hill	50
1:29.70 Debbie Bradbury	47	1:20.55 Evelyn Hausberger	54	3:16.86 Constance Sasser	52	4:02.47 Ann Onton	54
1:32.51 Linda Carstens	46	200 M. FREESTYLE		3:18.72 Evelyn Hausberger	54	4:25.23 Myra Bair	53
1:34.41 Christie Altman	49	2:28.85 ARDETH MUELLER	91	3:19.01 Ginger Pierson	52	100 M. INDIVIDUAL MEDLEY	
200 M. BUTTERFLY		2:35.91 Marcia Barry	50	3:20.13 Linda McHenry	51	1:18.05 ARDETH MUELLER	91
2:33.70 LAURA VAL	97	2:43.78 Joan Diercks	50	3:20.29 Chris S Weber	50	1:22.44 Ginger Pierson	52
2:42.28 Barbara Dunbar	49	2:52.18 Ruth Bennett	51	3:21.32 Susan Yeomans	50	1:24.87 Jackie Marr	54
3:04.06 Christie Ciraulo	45	2:52.31 Christine Zimmet	50	3:21.49 Christine Zimmet	50	1:24.97 Kathrine Casey	50
3:06.77 R Brittingham	47	2:54.59 Kathrine Casey	50	50 M. BREASTSTROKE		1:29.20 Andrea M Haines	50
3:20.96 Sherry Kittrell	46	2:58.65 Susan Yeomans	50	39.24 CAROLYN BOAK	95	1:29.48 Mirjana Prather	54
3:21.12 Darlene Staley	48	3:04.09 Constance Sasser	52	40.29 Ginger Pierson	52	1:30.28 Joan Diercks	50
3:42.54 Vicki Serianni	47	3:04.23 Vicki Buccino	52	42.61 Christie Hayes	50	1:31.56 Linda McHenry	51
3:42.75 Margaret Dodson	47	3:06.75 Stephanie I Scott	51	44.53 Margot Pettijohn	51	1:31.79 Chris S Weber	50
3:44.62 Katherine K Bass	46	3:12.88 Betty Veater	52	44.56 F Williamson	50	1:31.83 Marcia Barry	50
3:47.94 Hartzell Stringer	45	400 M. FREESTYLE		44.59 Candy Christenson	51	1:32.57 Sandi Rousseau	51
3:47.97 Catherine Brooks	49	5:12.43 ARDETH MUELLER	91	44.61 Daniela Barnea	54	200 M. INDIVIDUAL MEDLEY	
3:47.97 Pam O'Neill	48	5:23.48 Marcia Barry	50	45.30 Diana Leake	52	2:52.74 CAROLYN BOAK	96
100 M. INDIVIDUAL MEDLEY		5:40.64 Joan Diercks	50	45.71 Susan Ellis	51	3:07.88 Ginger Pierson	52
1:11.82 LAURA VAL	97	5:48.83 Kathrine Casey	50	45.83 Mirjana Prather	54	3:11.08 Marcia Barry	50
1:14.13 Danielle Ogier	46	5:55.67 Christie Hayes	50	48.27 Janit Romayko	53	3:14.11 Chris S Weber	50
1:16.48 Jacki Hirsty	46	6:12.91 Ruth Bennett	51	48.27 Stephanie I Scott	51	3:17.97 Joan Diercks	50
1:19.62 Denise Kirwan	46	6:15.23 Susan Yeomans	50	100 M. BREASTSTROKE		3:20.47 Andrea M Haines	50
1:20.39 Jonelle Schmidt	47	6:16.10 Christine Zimmet	50	1:25.80 GINGER PIERSON	96	3:21.34 Susan Yeomans	50
1:20.45 Karlene Wise	45	6:16.93 Mary Pohlmann	53	1:31.74 Ginger Pierson	51	3:22.01 Daniela Barnea	54
1:20.75 Barbara Dunbar	49	6:18.44 Monika Hunscher	50	1:35.67 Margot Pettijohn	51	3:22.19 Margot Pettijohn	51
1:21.16 Jan Pesavento	47	6:23.63 Vicki Buccino	52	1:36.01 Daniela Barnea	54	3:25.97 Constance Sasser	50
1:24.91 Jeannie L Harris	45	800 M. FREESTYLE		1:37.75 F Williamson	50	3:29.09 Catherine Brooks	50
1:25.10 Carol Pflugheber	45	11:07.78 CAROLYN BOAK	96	1:41.52 Harriet Zucker	51	400 M. INDIVIDUAL MEDLEY	
1:26.04 Karen Cunningham	48	11:09.79 Marcia Barry	50	1:41.66 Stephanie I Scott	51	5:56.24 ARDETH MUELLER	91
200 M. INDIVIDUAL MEDLEY		12:21.89 Kathrine Casey	50	1:45.48 Kathy Slifer	53	6:47.66 Chris S Weber	50
2:37.59 LAURA VAL	97	12:50.59 Mary Pohlmann	53	1:45.67 Catherine Brooks	50	6:52.16 Ginger Pierson	52
2:40.36 Danielle Ogier	46	13:05.11 Susan Yeomans	50	1:47.73 Diana Tucker	51	7:18.21 Edith Jacobsen	51
2:50.20 Barbara Dunbar	49	13:06.05 Monika Hunscher	50	1:48.12 Monika Hunscher	50	7:19.98 Catherine Brooks	50
2:54.93 Jonelle Schmidt	47	13:14.72 Lisa Martin	50	200 M. BREASTSTROKE		7:36.37 Winifred Prall	50
2:56.71 Karlene Wise	45	13:26.49 Vicki Buccino	52	3:08.06 GINGER PIERSON	96	7:45.30 Trish Lewis	53
3:06.07 Priscill Kawakami	48	13:30.28 Evelyn Hausberger	54	3:18.25 Ginger Pierson	52	7:56.35 Betty Veater	52
3:12.37 Nancy Surdoval	45	13:50.74 Harriet Zucker	51	3:24.27 Margot Pettijohn	51	9:50.83 Carol Hall	50
3:13.49 Sherry Kittrell	46	14:12.42 Diana Tucker	51	3:27.23 Daniela Barnea	54		
3:13.62 Pam Geiger	45	1500 M. FREESTYLE		3:43.14 Catherine Brooks	50	WOMEN 55-59	
3:16.49 Virginia Langmuir	46	21:22.26 CAROLYN BOAK	95	3:43.92 Stephanie I Scott	51	50 M. FREESTYLE	
3:19.00 Eileen Craffey	47	21:33.05 Marcia Barry	50	3:45.42 Janit Romayko	53	30.37 ARDETH MUELLER	96
400 M. INDIVIDUAL MEDLEY		22:11.01 F Williamson	50	3:45.65 Harriet Zucker	51	32.41 Jackie Marr	55
5:43.24 DANIELLE OGIER	98	22:49.53 Kathrine Casey	50	3:48.62 Mary Lou Hill	50	32.80 Nancy J Ridout	56
5:43.24 Danielle Ogier	46	25:10.51 Vicki Buccino	52	3:51.36 Monika Hunscher	50	33.66 Phyllis Ward	55
5:57.65 Barbara Dunbar	49	25:11.42 Evelyn Hausberger	54	3:51.71 Betty Veater	52	34.71 Jayne Lambke	59
6:07.98 Karlene Wise	45	25:43.60 Susan Yeomans	50	50 M. BUTTERFLY		35.59 Beth Schreiner	57
6:34.10 S Lee-Sheridan	46	25:48.44 Winifred Prall	50	33.85 DIANA TODD	94	36.11 Claire O'Brien	59
6:44.61 Nancy Surdoval	45	26:21.84 Mary Lou Hill	50	37.17 Sandi Rousseau	51	36.73 Lynne Lund	58
6:47.64 Cynthia Jones	48	26:27.24 Diana Tucker	51	38.50 Ginger Pierson	52	36.85 Susan Meyers	56
6:50.94 Sherry Kittrell	46	27:01.00 Bonnie Kotzbach	54	38.75 Mirjana Prather	54	38.28 Sally Bolar	59
6:54.19 Pam Geiger	45	50 M. BACKSTROKE		39.07 B Edelmaier	52	38.43 Charlotte Jenkins	59
6:55.75 H Carling-Smit	47	36.49 MIMI FRANK	97	41.22 Chris S Weber	50	100 M. FREESTYLE	
7:11.25 Linda Carstens	46	39.61 Jeannie Mitchell	52	41.24 Ann Fredette	53	1:10.97 ARDETH MUELLER	98
		40.06 Kathrine Casey	50	41.70 Constance Sasser	52	1:10.97 Ardeth Mueller	57
		40.74 Ginger Pierson	52	42.41 Joan Diercks	50	1:11.53 Jackie Marr	55
		41.50 Andrea M Haines	50	42.49 Daniela Barnea	54	1:15.05 Nancy J Ridout	56
		42.05 Marcia Barry	50	42.74 Linda McHenry	51	1:17.49 Jayne Lambke	59
		42.51 Evelyn Hausberger	54	100 M. BUTTERFLY		1:18.37 Phyllis Ward	55
		42.64 Mary Pohlmann	53	1:12.66 ARDETH MUELLER	91	1:20.60 Claire O'Brien	59
		43.15 Constance Sasser	52	1:29.23 Ginger Pierson	52	1:22.73 Lynne Lund	58
		43.54 Christie Hayes	50	1:29.72 Sandi Rousseau	51	1:24.27 Sally Bolar	59
		44.31 L Schoenberger	51	1:34.92 Chris S Weber	50	1:25.69 Pamela Himstreet	59
		100 M. BACKSTROKE		1:37.27 Christine Zimmet	50	1:26.97 Beth Schreiner	57
		1:20.50 ARDETH MUELLER	91	1:39.93 Constance Sasser	51	200 M. FREESTYLE	
		1:27.58 Marcia Barry	50	1:45.85 Linda Tepe	51	2:28.30 ARDETH MUELLER	96
		1:27.98 Kathrine Casey	50	1:47.42 Catherine Brooks	50	2:40.39 Jackie Marr	55
		1:28.90 Evelyn Hausberger	54	1:51.50 Judy Paukert	50		

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

2:47.41 Nancy J Ridout 56	4:12.25 Patricia Arnold 59	1:28.10 Barbara Frid 55	7:12.32 Barbara Matorin 60
2:51.28 Claire O'Brien 59	4:16.42 Lynne De Victoria 56	1:29.56 Sarah L Brougher 56	7:27.80 Sylvia Glenn 60
2:57.77 Jayne Lambke 59	4:30.99 Martha Davis 57	1:31.44 Phyllis Ward 55	7:31.84 M Lou Valentine 62
3:05.16 Pamela Himstreet 55	• 50 M. BREASTSTROKE	1:33.18 Lynne Lund 58	7:50.31 Prudy Hall 60
3:07.28 Lynne Lund 58	40.69 JAYNE BRUNER 91	1:33.87 Jayne Lambke 59	7:54.73 Barbara Merin 64
3:11.38 Sally Bolar 59	48.89 Elaine Bromwich 55	1:34.39 Susan Meyers 56	7:59.77 Ann Johnson 62
3:17.71 Beth Schreiner 57	48.97 Lynne Lund 58	1:34.68 Pinky Walker 55	• 800 M. FREESTYLE
3:25.04 Marlee Valderhaug 57	48.99 Susan Meyers 56	1:35.66 Claire O'Brien 59	11:30.55 LAVELLE STOINOFF 93
3:25.17 Marie Mainville 57	49.70 Francesca Drum 57	1:36.89 Jane Katz 55	12:30.95 Betsy Jordan 61
• 400 M. FREESTYLE	50.32 Marilyn Ramey 58	• 200 M. INDIVIDUAL MEDLEY	12:58.11 Susan Bradley-Cox 61
5:15.91 ARDETH MUELLER 96	51.39 Helen Geoffrion 59	2:52.43 ARDETH MUELLER 97	13:50.70 Beverly Myers 62
5:43.17 Jackie Marr 55	52.26 Carolyn Haefner 58	3:02.82 Jackie Marr 55	13:58.67 Helen Bayly 61
6:08.79 Claire O'Brien 59	53.00 Kathleen Sarg 55	3:22.81 Lynne Lund 58	14:22.59 Patricia Tullman 61
6:14.87 Jayne Lambke 59	53.58 Jean Pritchett 58	3:29.23 Jayne Lambke 59	14:35.11 Donna Monroe 64
6:24.71 Elaine Bromwich 55	55.18 Marlee Valderhaug 56	3:32.17 Pinky Walker 55	15:10.46 Sylvia Glenn 60
6:29.93 Pamela Himstreet 55	• 100 M. BREASTSTROKE	3:32.76 Pamela Himstreet 55	15:16.35 Carol Lowengrub 61
6:33.65 Aagje Caron 57	1:29.88 JOANN LEILICH 94	3:37.38 Sandy Etnyre 56	16:08.56 Prudy Hall 60
6:44.74 Sally Bolar 59	1:44.14 Francesca Drum 57	3:39.99 Elaine Bromwich 55	16:42.83 Nancy Waite 64
6:51.65 Marie Mainville 57	1:45.34 Pamela Himstreet 55	3:49.39 Francesca Drum 57	• 1500 M. FREESTYLE
6:53.69 Elizabeth Johnson 59	1:48.44 Lynne Lund 58	3:50.12 Marilyn Ramey 57	22:54.51 LAVELLE STOINOFF 94
6:54.72 Nancy Lowden 56	1:49.00 Elaine Bromwich 55	3:57.04 Joyce Kowalski 56	23:58.43 Betsy Jordan 61
• 800 M. FREESTYLE	1:49.07 Elizabeth Johnson 59	• 400 M. INDIVIDUAL MEDLEY	24:19.09 Susan Bradley-Cox 61
11:10.40 ARDETH MUELLER 98	1:49.53 Aagje Caron 56	6:34.76 JACKIE MARR 98	26:17.07 Patricia Tullman 61
11:10.40 Ardeth Mueller 57	1:49.86 Sandy Etnyre 56	6:34.76 Jackie Marr 55	26:20.80 Barb Zaremski 61
12:03.59 Jayne Lambke 59	1:52.28 Marilyn Ramey 57	7:11.40 Lynne Lund 58	28:44.82 Sylvia Glenn 60
12:45.25 Claire O'Brien 59	1:55.74 Kathleen Sarg 55	7:16.02 Jayne Lambke 59	30:42.01 Prudy Hall 60
13:01.79 Pamela Himstreet 55	1:59.04 Jean Pritchett 58	7:32.80 Pamela Himstreet 55	30:46.42 Barbara Merin 64
13:07.02 Elaine Bromwich 55	• 200 M. BREASTSTROKE	7:36.91 Elaine Bromwich 55	31:11.00 Joyce M Haworth 61
13:58.67 Sally Bolar 59	3:14.71 JOANN LEILICH 97	7:37.84 Elizabeth Johnson 59	31:37.88 Nancy Waite 64
14:18.51 Susan Meyers 56	3:30.42 Jackie Marr 55	7:53.30 Marilyn Ramey 58	32:11.69 A Barbara Roberts 61
14:19.66 Marie Mainville 57	3:39.82 Pamela Himstreet 55	7:56.87 Sally Bolar 59	• 50 M. BACKSTROKE
14:32.69 Marlee Valderhaug 57	3:42.28 Francesca Drum 57	8:15.58 Francesca Drum 57	38.74 BETSY JORDAN 97
14:44.83 Marilyn Ramey 58	3:46.10 Elizabeth Johnson 59	8:25.92 Ann Louise Onton 56	39.18 Betsy Jordan 61
• 1500 M. FREESTYLE	3:47.41 Lynne Lund 58		45.31 Beverly Myers 62
21:35.84 LAVELLE STOINOFF 89	3:48.41 Aagje Caron 56	WOMEN 60-64	45.52 Barb Zaremski 61
22:40.01 Jayne Lambke 59	3:54.02 Marilyn Ramey 58	• 50 M. FREESTYLE	46.28 Ronnie Kamphausen 64
24:10.33 Claire O'Brien 59	3:55.51 Elaine Bromwich 55	33.07 JAYNE BRUNER 95	46.36 Doris Klitzke 63
24:49.51 Elaine Bromwich 55	4:11.42 Carolyn Haefner 58	33.64 Jayne Bruner 64	46.88 Suzanne E Robbins 64
25:26.13 Pamela Himstreet 55	4:19.29 Jeannine Olson 59	34.94 Barb Zaremski 61	48.03 Patricia Tullman 61
25:28.67 Lynne Lund 58	• 50 M. BUTTERFLY	36.87 Margie Heineman 61	49.04 Susan Springer 60
27:14.52 Marie Mainville 57	33.66 ARDETH MUELLER 97	37.10 Betsy Jordan 61	49.39 Judy Kennedy 61
27:34.66 Marilyn Ramey 58	36.23 Sarah L Brougher 56	37.30 Sally Newell 61	49.58 Ruth Stavits 61
27:36.51 Elizabeth Johnson 59	37.45 Nancy J Ridout 56	38.04 Ronnie Kamphausen 61	• 100 M. BACKSTROKE
28:00.95 Marlee Valderhaug 57	37.49 Jackie Marr 55	38.09 Susanne Schumann 61	1:24.16 BETSY JORDAN 97
28:25.44 Nancy Lowden 56	38.52 Barbara Frid 55	38.90 Beverly Myers 62	1:27.70 Betsy Jordan 61
• 50 M. BACKSTROKE	38.91 Phyllis Ward 55	39.04 Patricia Tullman 61	1:36.81 Susan Livingston 60
37.92 BETSY JORDAN 92	40.31 Lynne Lund 58	39.10 Sara J Snook 60	1:40.00 Barb Zaremski 61
40.88 Phyllis Ward 55	41.13 Jayne Lambke 59	• 100 M. FREESTYLE	1:40.54 Beverly Myers 63
41.89 Barbara Frid 55	45.24 Claire O'Brien 59	1:13.50 JAYNE BRUNER 96	1:46.26 Patricia Tullman 61
42.87 Lynne Lund 58	45.75 Ann Louise Onton 56	1:18.00 Jayne Bruner 64	1:47.24 Susan Springer 60
45.07 Jayne Lambke 59	47.30 Marilyn Ramey 58	1:19.22 Barb Zaremski 61	1:47.57 Suzanne E Robbins 64
49.74 Francesca Drum 57	• 100 M. BUTTERFLY	1:23.92 Betsy Jordan 61	1:49.26 Marian Coakley 60
50.97 Pamela Himstreet 55	1:18.75 ARDETH MUELLER 97	1:25.85 Susanne Schumann 61	1:50.03 Judy Kennedy 61
50.99 Marilyn Ramey 58	1:31.21 Nancy Ridout 56	1:26.23 Ronnie Kamphausen 61	1:54.37 Sylvia Glenn 60
51.01 Martha Davis 57	1:33.82 Lynne Lund 58	1:26.28 Margie Heineman 61	• 200 M. BACKSTROKE
52.78 Isabel Lyndon 59	1:39.99 Jackie Marr 55	1:26.30 Beverly Myers 63	3:05.27 BETSY JORDAN 97
53.35 Marlee Valderhaug 56	1:42.08 Jayne Lambke 59	1:30.40 Sara J Snook 60	3:16.03 Betsy Jordan 61
• 100 M. BACKSTROKE	1:45.22 Pamela Himstreet 55	1:30.45 Patricia Tullman 61	3:23.97 Susan Livingston 60
1:21.90 BETSY JORDAN 92	1:47.59 Sally Bolar 59	1:31.46 Sally Newell 61	3:39.46 Beverly Myers 63
1:28.97 Sarah L Brougher 56	1:54.84 Marilyn Ramey 57	• 200 M. FREESTYLE	3:48.09 Susan Springer 60
1:32.29 Lynne Lund 58	1:54.94 Ann Louise Onton 56	2:39.92 LAVELLE STOINOFF 93	3:56.15 Suzanne E Robbins 64
1:33.21 Barbara Frid 55	2:02.73 Jeannine Olson 59	2:57.20 Betsy Jordan 61	3:58.31 Sylvia Glenn 60
1:41.30 Francesca Drum 57	2:03.32 Lynne De Victoria 56	3:07.09 Ronnie Kamphausen 64	4:04.53 Ruth Stavits 61
1:42.26 Ceil Blackwell 58	• 200 M. BUTTERFLY	3:07.92 Beverly Myers 62	4:18.47 Doris Prokopi 62
1:43.76 Elaine Bromwich 55	2:55.05 ARDETH MUELLER 96	3:10.11 Margie Heineman 61	4:28.38 Beverly Tucker 63
1:44.17 Claire O'Brien 59	3:36.83 Lynne Lund 58	3:15.92 Ann McDonnell 60	5:04.24 Judy Davis 63
1:48.14 Marilyn Ramey 57	3:48.63 Sally Bolar 59	3:16.13 Patricia Tullman 61	• 50 M. BREASTSTROKE
1:55.56 Carole Borland 55	3:54.00 Pamela Himstreet 55	3:17.89 Sara J Snook 60	41.74 JAYNE BRUNER 96
1:55.70 Ann Louise Onton 55	4:00.74 Elizabeth Johnson 59	3:27.12 Donna Monroe 64	45.75 Sally Newell 61
• 200 M. BACKSTROKE	4:08.31 Ann Louise Onton 56	3:35.90 Sylvia Glenn 60	46.61 Margie Heineman 61
3:00.66 BETSY JORDAN 92	4:21.85 Elaine Bromwich 55	3:36.90 M Lou Valentine 62	46.86 Margit Jebe 60
3:12.43 Jane Katz 55	4:23.49 Lynne De Victoria 56	• 400 M. FREESTYLE	48.67 Jacquelyn Piper 61
3:23.31 Lynne Lund 58	4:27.21 Jeannine Olson 59	5:38.06 LAVELLE STOINOFF 93	49.06 Beverly Myers 62
3:25.24 Pinky Walker 55	4:32.85 Ingrid Stine 59	6:11.13 Betsy Jordan 61	49.44 Susanne Schumann 61
3:40.56 Elaine Bromwich 55	4:50.23 Helen Geoffrion 59	6:23.75 Susan Bradley-Cox 61	50.98 Betsy Jordan 61
3:50.55 Marilyn Ramey 58	• 100 M. INDIVIDUAL MEDLEY	6:28.27 Ronnie Kamphausen 64	51.52 Barb Zaremski 61
3:57.39 Ann Louise Onton 56	1:24.19 JAYNE BRUNER 89	7:00.29 Patricia Tullman 61	51.55 Ida Smith 64
4:03.53 Carole Borland 55	1:24.25 Jackie Marr 55		51.87 Doris Prokopi 62

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

<ul style="list-style-type: none"> • 100 M. BREASTSTROKE 1:34.63 JAYNE BRUNER 96 1:41.44 Margit Jebe 60 1:45.02 Jacquelyn Piper 61 1:47.29 Sally Newell 61 1:49.46 Susanne Schumann 61 1:50.23 Barb Zaremski 61 1:50.28 Beverly Myers 62 1:54.73 Betsy Jordan 61 1:55.11 Ann Johnsen 62 1:55.44 Carol Reinke 61 1:55.97 Doris Prokopi 62 • 200 M. BREASTSTROKE 3:33.06 LAVELLE STOINOFF 95 3:43.77 Margit Jebe 60 3:48.78 Beverly Myers 63 3:49.97 Sally Newell 61 4:00.21 Susanne Schumann 61 4:00.47 Susan Livingston 60 4:02.10 Barb Zaremski 61 4:05.20 Ann Johnsen 62 4:05.74 Betsy Jordan 61 4:09.66 Ida Smith 64 4:10.02 Carol Reinke 61 • 50 M. BUTTERFLY 38.30 JAYNE BRUNER 95 40.22 Jayne Bruner 64 41.01 Betsy Jordan 61 43.11 Margie Heineman 61 44.95 Beverly Myers 62 45.44 Ronnie Kamphausen 64 45.78 Margit Jebe 60 46.05 Doris Klitzke 63 48.23 Sara J Snoek 60 48.50 Patricia Tullman 61 49.03 Ernestine Beattie 62 • 100 M. BUTTERFLY 1:32.19 JAYNE BRUNER 95 1:40.37 Betsy Jordan 61 1:42.67 Susan Livingston 60 1:45.60 Margit Jebe 60 1:55.82 Patricia Tullman 61 1:56.97 Ann Johnsen 62 2:02.17 Janet Moeller 63 2:15.64 Doris Prokopi 62 2:28.11 Carolyn Baldwin 64 2:59.36 Joyce Voit 63 3:35.84 Trish Hunter 64 • 200 M. BUTTERFLY 3:30.11 BETSY JORDAN 98 3:30.11 Betsy Jordan 61 3:44.87 Susan Livingston 60 3:52.60 Margit Jebe 60 4:10.95 Barb Zaremski 61 4:21.48 Patricia Tullman 61 4:22.39 Sara J Snoek 60 4:55.04 Janet Moeller 63 5:07.21 Carol Lowengrub 61 • 100 M. INDIVIDUAL MEDLEY 1:26.42 JAYNE BRUNER 96 1:31.66 Betsy Jordan 61 1:35.27 Jayne Bruner 63 1:37.79 Beverly Myers 62 1:38.57 Margit Jebe 60 1:41.16 Barb Zaremski 61 1:42.26 Doris Klitzke 63 1:44.73 Patricia Tullman 61 1:45.25 Sally Newell 61 1:48.74 Ann McDonnell 60 1:51.93 Carol Reinke 61 • 200 M. INDIVIDUAL MEDLEY 3:14.28 CLARA WALKER 90 3:18.59 Betsy Jordan 61 3:31.34 Beverly Myers 63 3:32.07 Margit Jebe 60 4:05.78 Janet Moeller 63 • 400 M. INDIVIDUAL MEDLEY 6:58.40 BETSY JORDAN 98 	<ul style="list-style-type: none"> 6:58.40 Betsy Jordan 61 7:45.39 Barb Zaremski 61 8:46.70 Janet Moeller 63 9:19.06 Doris Prokopi 62 <li style="text-align: center;">WOMEN 65-69 • 50 M. FREESTYLE 34.17 GAIL ROPER 96 37.78 Diane Reed 67 39.74 Barbara Callison 65 40.31 Nancy Macbeth 69 40.32 Nanette Bohl 69 41.48 Kathie Theis 66 41.85 Laurine Schuler 68 42.61 Ardis Bourland 65 43.42 Gay Collins 68 44.71 Jacqueline Dunlop 67 44.88 Georgia Goggin 69 • 100 M. FREESTYLE 1:16.26 GAIL ROPER 96 1:26.19 Diane Reed 67 1:30.06 Barbara Callison 65 1:34.08 Ann M Hirsch 67 1:35.36 Nanette Bohl 69 1:36.36 Gay Collins 68 1:38.08 Laurine Schuler 68 1:38.20 Malchia Olshan 67 1:40.10 Kathie Theis 66 1:42.40 Betty T Mc Millan 69 1:44.14 Ann Dallam 68 • 200 M. FREESTYLE 2:54.15 GAIL ROPER 96 3:14.16 Diane Reed 67 3:24.18 Ann M Hirsch 67 3:26.98 Barbara Callison 65 3:29.18 Malchia Olshan 67 3:34.28 Joan Campbell 68 3:37.78 Laurine Schuler 68 3:38.87 Nanette Bohl 69 3:39.55 Gay Collins 68 3:39.84 Nancy Durstein 68 3:42.94 Carol Taylor 69 • 400 M. FREESTYLE 6:13.42 CLARA WALKER 92 6:52.25 Diane Reed 67 7:11.64 Malchia Olshan 67 7:24.58 Barbara Callison 65 7:32.76 Carol Taylor 69 7:48.33 Ruth Aaron 69 7:53.52 Betty T Mc Millan 69 8:09.27 Lilly Kron 67 8:24.15 Jean M Duncan 65 8:27.51 Mary Jane Mullins 67 8:47.22 Ruth Farnham 68 • 800 M. FREESTYLE 12:35.26 CLARA WALKER 92 14:26.16 Lida Gaschke 66 14:38.25 Malchia Olshan 67 14:46.53 Ann M Hirsch 67 14:59.61 Barbara Callison 65 15:22.73 Carol Taylor 69 15:30.16 Joan Campbell 68 15:32.60 Ann M Lambertson 68 15:49.98 Nancy Durstein 68 16:34.95 Ann Shenck Dallam 67 16:49.78 Lilly Kron 67 • 1500 M. FREESTYLE 23:38.44 CLARA WALKER 92 26:04.59 Gail Roper 69 27:23.60 Lida Gaschke 66 27:41.63 Malchia Olshan 67 28:58.36 Joan Campbell 68 29:50.77 Nancy Durstein 68 31:09.47 Ann Dallam 68 31:35.07 Mary Jane Mullins 67 31:39.15 Lilly Kron 67 35:34.73 Mary Williams 66 	<ul style="list-style-type: none"> 37:13.62 Ann Martin 69 • 50 M. BACKSTROKE 40.48 DORIS STEADMAN 89 49.36 Nancy Macbeth 69 49.78 Phillis Wilson 65 51.79 Gay Collins 68 51.99 Nanette Bohl 69 53.49 Maria Yungel 66 53.55 Nancy Durstein 68 53.86 Mary Jane Mullins 67 53.98 Laurine Schuler 68 54.17 Jacqueline Dunlop 67 54.72 Kathie Theis 66 • 100 M. BACKSTROKE 1:30.41 DORIS STEADMAN 89 1:48.33 Nancy Macbeth 69 1:54.90 Gay Collins 68 1:55.52 Lilly Kron 66 1:56.69 Mary Jane Mullins 67 1:56.87 Kathie Theis 66 1:57.96 Ardis Bourland 65 1:58.86 Maria Yungel 66 2:00.69 Laurine Schuler 68 2:04.24 Betty T Mc Millan 69 2:05.85 Marian Brenner 68 • 200 M. BACKSTROKE 3:15.72 DORIS STEADMAN 89 3:48.18 Nancy Macbeth 69 3:58.81 Ann M Hirsch 67 3:59.55 Mary Jane Mullins 67 4:07.12 Gay Collins 68 4:17.38 Nancy Durstein 68 4:18.30 Kathie Theis 66 4:39.62 Janet Kavadas 67 4:41.34 Peggy Phillips 65 4:49.69 Jean M Duncan 65 5:01.53 Ruth Farnham 68 • 50 M. BREASTSTROKE 46.57 GAIL ROPER 95 48.72 Ann M Hirsch 67 49.28 Lilly Kron 66 49.73 Carol Taylor 69 53.85 Sumie Anderson 65 54.89 Jacqueline Dunlop 67 57.46 Ann Dallam 68 59.00 Georgia Goggin 69 1:01.36 Marianna Hagan 69 1:03.13 Natalie Swan 68 1:04.77 Janet Kavadas 67 • 100 M. BREASTSTROKE 1:41.41 GAIL ROPER 95 1:44.56 Ann M Hirsch 67 1:49.52 Lilly Kron 67 1:51.16 Carol Taylor 68 1:58.50 Barbara Callison 65 2:03.77 Joan Campbell 68 2:04.20 Nanette Bohl 69 2:07.75 Jacqueline Dunlop 67 2:09.40 Malchia Olshan 67 2:12.04 Ruth Aaron 69 2:14.99 Ann Dallam 68 • 200 M. BREASTSTROKE 3:41.93 GAIL ROPER 95 3:42.84 Ann M Hirsch 67 3:52.49 Lilly Kron 67 4:05.96 Carol Taylor 68 4:34.90 Malchia Olshan 67 4:41.59 Ruth Aaron 69 4:53.09 Elfriede Lehto 65 4:55.46 Ann Dallam 68 5:09.68 Marianna Hagan 69 5:16.06 Ann Martin 69 5:27.66 Penny Kronengold 66 • 50 M. BUTTERFLY 38.44 GAIL ROPER 95 41.35 Gail Roper 69 46.65 Barbara Callison 65 49.75 Nancy Macbeth 69 	<ul style="list-style-type: none"> 52.16 Carol Taylor 69 52.18 Phillis Wilson 65 54.83 Malchia Olshan 67 55.64 Ann Dallam 68 57.68 Gay Collins 68 57.92 Natalie Swan 68 58.75 Marianna Hagan 69 • 100 M. BUTTERFLY 1:33.10 GAIL ROPER 95 1:52.52 Ann M Hirsch 67 1:57.62 Barbara Callison 65 2:03.94 Malchia Olshan 67 2:06.46 Lilly Kron 66 2:23.14 Marianna Hagan 69 2:30.39 Ann Dallam 68 2:38.15 Ruth Aaron 69 2:47.90 Mary Williams 66 2:48.04 Ann Martin 69 3:03.27 Carol Ganzel 67 • 200 M. BUTTERFLY 3:32.93 JUNE KRAUSER 95 3:59.79 Ann M Hirsch 67 4:36.42 Malchia Olshan 67 5:46.39 Mary Williams 66 • 100 M. INDIVIDUAL MEDLEY 1:28.95 GAIL ROPER 96 1:42.60 Ann M Hirsch 67 1:43.74 Nancy Macbeth 69 1:46.93 Barbara Callison 65 1:50.60 Lida Gaschke 66 1:51.71 Carol Taylor 68 1:52.71 Lilly Kron 66 1:56.80 Gay Collins 68 1:58.50 Nancy Durstein 68 2:03.28 Maria Yungel 66 2:04.55 Ardis Bourland 65 • 200 M. INDIVIDUAL MEDLEY 3:18.77 CLARA WALKER 91 3:40.54 Ann M Hirsch 67 3:41.03 Nancy Macbeth 69 3:48.63 Barbara Callison 65 4:00.44 Carol Taylor 68 4:04.00 Diane Reed 67 4:11.05 Phillis Wilson 65 4:13.84 Malchia Olshan 67 4:16.41 Gay Collins 68 4:21.99 Maria Yungel 66 4:24.94 Mary Jane Mullins 67 • 400 M. INDIVIDUAL MEDLEY 7:07.69 GAIL ROPER 96 7:53.60 Nancy Macbeth 69 7:55.31 Ann M Hirsch 67 8:37.35 Joan Campbell 68 9:07.30 Nancy Durstein 68 10:01.48 Ann Shenck Dallam 67 10:43.01 Ann Martin 69 11:14.73 Mary Williams 66 <li style="text-align: center;">WOMEN 70-74 • 50 M. FREESTYLE 38.36 FLORENCE CARR 95 38.44 Clara Walker 72 38.57 Jean Troy 71 41.11 June Krauser 72 41.57 Florence Carr 73 42.59 Edie Gruender 70 43.46 Cynthia Bruce 70 43.65 Della M Sehorn 71 44.92 Lois Nochman 73 45.67 Asako Maningo 72 45.67 Barbara Boley 72 • 100 M. FREESTYLE 1:26.32 JEAN TROY 98 1:26.32 Jean Troy 71 1:29.09 Clara Walker 71 1:31.19 June Krauser 72 1:35.77 Florence Carr 73
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1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

1:37.17 Cynthia Bruce 70	• 200 M. BACKSTROKE	5:18.46 Elfriede A Rogers 70	8:24.71 Maurine Kornfeld 77
1:39.64 Lois Nochman 73	3:27.79 DORIS STEADMAN 95	6:17.89 Gloria M Stupfel 72	8:25.47 Diana Silva 76
1:40.10 Betty Lorenzi 71	3:44.99 June Krauser 72	6:24.54 Joan McIntyre 70	8:28.63 Bunny Cederlund 76
1:42.68 Elinor Wright 74	3:52.82 Betty Lorenzi 71	• 100 M. INDIVIDUAL MEDLEY	8:35.68 Mary Stadig 77
1:45.27 Asako Maningo 72	4:03.67 Lois Nochman 73	1:38.73 JUNE KRAUSER 96	8:49.25 Muriel Flynn 75
1:46.56 Joan McIntyre 70	4:08.26 Joan McIntyre 70	1:42.58 June Krauser 72	8:49.93 Billie A Burrill 77
• 200 M. FREESTYLE	4:12.36 Peggy Sanborn 71	1:47.42 Jean Troy 71	9:26.03 H Huggins 76
3:04.77 JEAN TROY 98	4:23.27 Eleanor B Wessner 72	1:52.54 Della M Sehorn 71	10:11.29 Mary Wixted 76
3:04.77 Jean Troy 71	4:25.45 Florence Carr 73	1:53.58 Lois Nochman 73	• 800 M. FREESTYLE
3:12.34 June Krauser 72	4:27.13 Catherin Williams 73	1:54.43 Florence Carr 73	14:46.26 MARGERY MEYER 98
3:20.50 Clara Walker 71	4:31.52 Barbara Boley 73	1:56.75 Betty Lorenzi 71	14:46.26 Margery Meyer 75
3:32.05 Edie Gruender 70	4:38.61 Edna Gordon 71	2:00.17 Dorres Foster 70	18:08.41 Bunny Cederlund 76
3:41.53 Lois Nochman 73	• 50 M. BREASTSTROKE	2:06.09 Joan McIntyre 70	20:49.90 H Huggins 76
3:45.09 Grace Altus 74	50.95 GERTRUD ZINT 87	2:08.27 Nancy Reed 71	28:03.70 Elfie Stevenin 77
3:49.07 Florence Carr 73	53.40 June Krauser 72	2:10.57 Barbara Boley 73	• 1500 M. FREESTYLE
3:49.86 Fay Beck 72	57.30 Lois Nochman 73	• 200 M. INDIVIDUAL MEDLEY	27:47.25 MARGERY MEYER 98
3:51.76 Joan McIntyre 70	59.29 Maggie Mors 72	3:31.93 JUNE KRAUSER 96	27:47.25 Margery Meyer 75
3:56.94 Nancy Reed 71	1:00.04 Elfriede Rogers 70	3:40.27 June Krauser 72	34:20.72 Bunny Cederlund 76
• 400 M. FREESTYLE	1:02.29 Bunny S Dawson 70	3:53.42 Jean Troy 71	39:19.22 H Huggins 76
6:28.81 JUNE KRAUSER 96	1:02.48 Florence Carr 73	4:07.66 Lois Nochman 73	49:23.94 Kate Brazil 78
6:46.19 June Krauser 72	1:02.62 Joan Glaraton 71	4:34.02 Elfriede A Rogers 70	• 50 M. BACKSTROKE
6:53.55 Jean Troy 71	1:03.04 Barbara Boley 73	4:34.61 Florence Carr 73	51.14 BUNNY CEDERLUND 98
6:59.09 Clara Walker 71	1:04.91 Dixie C Germolus 71	4:34.92 Joan McIntyre 70	51.14 Bunny Cederlund 76
7:32.39 Edie Gruender 70	1:07.13 Cornelia Johnson 74	4:42.19 Nancy Reed 71	51.62 Margery Meyer 75
7:38.77 Eleanor B Wessner 72	• 100 M. BREASTSTROKE	4:45.46 Marion Wolle 70	54.96 Dorothy Donnelly 76
7:40.41 Lois Nochman 74	1:49.64 JUNE KRAUSER 96	5:02.18 Gladys Olsen 72	55.19 Diana Silva 76
7:47.74 Grace Altus 74	1:56.23 June Krauser 72	5:16.53 Grace Altus 74	59.16 Nancy Phillips 76
8:04.45 Anita L Hazen 70	2:06.42 Lois Nochman 73	• 400 M. INDIVIDUAL MEDLEY	1:01.83 Rita D Evans 78
8:06.80 Joan McIntyre 70	2:09.98 Maggie Mors 72	7:24.32 JUNE KRAUSER 96	1:01.98 Jean Zulich 78
8:29.84 Nancy Reed 71	2:12.39 Bunny S Dawson 70	7:41.41 June Krauser 72	1:03.43 H Huggins 76
• 800 M. FREESTYLE	2:12.57 Elfriede A Rogers 70	8:13.83 Jean Troy 71	1:03.74 Minna Hamner 75
13:07.28 JUNE KRAUSER 96	2:17.85 Gladys Olsen 72	8:35.79 Lois Nochman 73	1:04.30 Edith Glusac 79
13:29.12 June Krauser 72	2:24.30 Marian Wolle 70	9:42.77 Marian Wolle 70	• 100 M. BACKSTROKE
15:12.47 Edie Gruender 70	2:24.44 Joan Glaraton 71	9:54.39 Elfriede A Rogers 70	1:51.72 BUNNY CEDERLUND 98
15:30.97 Lois Nochman 74	2:27.11 Nancy Reed 71	9:58.46 Gladys Olsen 72	1:51.72 Bunny Cederlund 76
15:43.41 Eleanor B Wessner 72	2:28.48 Dixie C Germolus 71	9:59.40 Joan McIntyre 70	1:54.36 Ruth B Morrill 75
15:50.15 Grace Altus 74	• 200 M. BREASTSTROKE	10:33.58 Joan Glaraton 71	2:02.79 Diana Silva 76
16:31.36 Anita L Hazen 70	3:55.99 JUNE KRAUSER 96	12:19.35 Gloria M Stupfel 72	2:11.94 Jane Dougherty 77
16:54.95 Joan McIntyre 70	4:03.55 June Krauser 72		2:12.95 Rita D Evans 78
17:16.38 Nancy Reed 71	4:36.85 Bunny S Dawson 70	WOMEN 75-79	2:13.68 Nancy Phillips 76
17:34.26 Marian Wolle 70	4:38.95 Lois Nochman 73	• 50 M. FREESTYLE	2:18.03 Minna Hamner 75
17:45.02 Peggy Sanborn 71	4:48.47 Elfriede A Rogers 70	41.87 MARGERY MEYER 98	2:18.21 Jean Zulich 78
• 1500 M. FREESTYLE	4:55.87 Gladys Olsen 72	41.19 Dorothy Donnelly 76NV	2:19.03 Maurine Kornfeld 77
24:57.85 JUNE KRAUSER 96	4:58.01 Marion Wolle 70	41.87 Margery Meyer 75	2:20.07 H Huggins 76
26:01.46 June Krauser 72	5:00.39 Nancy Reed 71	47.07 Diana Silva 76	• 200 M. BACKSTROKE
29:11.06 Lois Nochman 74	5:08.23 Dixie C Germolus 71	48.66 Billie A Burrill 77	4:01.89 MARIE WICKLUND 89
29:44.28 Grace Altus 74	5:19.17 Joan McIntyre 70	50.17 Bunny Cederlund 76	4:02.31 Ruth B Morrill 75
32:10.30 Joan McIntyre 70	5:21.98 Cornelia Johnson 74	52.67 Maurine Kornfeld 77	4:19.55 Bunny Cederlund 76
32:42.93 Nancy Reed 71	• 50 M. BUTTERFLY	54.33 H Huggins 76	4:45.37 Minna Hamner 75
33:42.13 Peggy Sanborn 71	45.17 JUNE KRAUSER 96	55.22 Libby Poole 78	4:51.68 Maurine Kornfeld 76
34:14.19 Florence Carr 73	45.96 June Krauser 72	57.99 Sylvia Hill 77	4:54.96 Jae Howell 76
35:15.60 Loys Green 72	48.31 Lois Nochman 73	58.24 Jean Zulich 78	4:56.01 Nancy Phillips 77
38:13.90 Bea T Heim 73	49.72 Edie Gruender 70	• 100 M. FREESTYLE	4:58.31 Maxine Carlson 78
38:35.86 Gladys Olsen 72	51.31 Jean Troy 71	1:33.87 MARGERY MEYER 98	4:58.96 Jean Zulich 78
• 50 M. BACKSTROKE	56.00 Florence Carr 73	1:33.87 Margery Meyer 75	5:12.75 H Huggins 76
42.58 DORIS STEADMAN 95	59.40 Carolyn Derr 70	1:36.61 Dorothy Donnelly 76	5:18.44 Marjorie Newman 75
48.40 Cynthia Bruce 70	59.47 Catherin Williams 73	1:46.01 Bunny Cederlund 76	• 50 M. BREASTSTROKE
49.12 Betty Lorenzi 71	1:02.73 Grace Altus 74	1:54.07 Billie A Burrill 77	53.94 GERTRUD ZINT 93
49.32 June Krauser 72	1:05.03 Nancy Reed 71	1:57.26 Maurine Kornfeld 76	59.50 Jae Howell 75
49.36 Della M Sehorn 71	1:05.62 Elfriede A Rogers 70	2:05.12 H Huggins 76	59.58 Muriel Flynn 75
52.84 Asako Maningo 72	• 100 M. BUTTERFLY	2:06.26 Sylvia Hill 77	1:06.00 Minna Hamner 75
53.02 Catherin Williams 73	1:40.20 JUNE KRAUSER 96	2:13.91 Fran Zeumer 78	1:09.08 Edith Glusac 79
53.06 Sarah T Allnutt 74	1:45.68 June Krauser 72	2:17.86 Libby Poole 78	1:11.78 Mary Wixted 76
53.74 Florence Carr 73	1:57.30 Lois Nochman 73	• 200 M. FREESTYLE	1:13.70 H Huggins 76
54.43 Lois Nochman 73	1:58.39 Della M Sehorn 71	3:33.90 RITA SIMONTON 93	1:14.35 Libby Poole 78
54.64 Dorres Foster 70	2:02.99 Edie Gruender 70	3:25.32 Margery Meyer 75NV	1:15.29 Jean Zulich 78
• 100 M. BACKSTROKE	2:19.96 Sarah T Allnutt 74	3:48.70 Dorothy Donnelly 76	1:16.38 Rita D Evans 78
1:35.66 DORIS STEADMAN 95	2:26.78 Elfriede Rogers 70	4:11.93 Maurine Kornfeld 77	1:17.16 Mary Culhane 77
1:45.68 June Krauser 72	2:28.02 Marian Wolle 70	4:15.45 Bunny Cederlund 76	• 100 M. BREASTSTROKE
1:48.01 Betty Lorenzi 71	2:31.19 Florence Carr 73	4:28.52 Nancy Phillips 77	2:02.29 GERTRUD ZINT 93
1:55.22 Edie Gruender 70	2:35.34 Gladys Olsen 72	4:32.48 Marjorie Newman 75	2:15.30 Jae Howell 75
1:56.45 Cynthia Bruce 70	2:58.06 Gloria M Stupfel 72	4:35.41 H Huggins 76	2:15.46 Muriel Flynn 75
1:57.84 Catherin Williams 73	• 200 M. BUTTERFLY	6:00.50 Edith Glusac 79	2:21.26 Jane Dougherty 77
1:58.58 Joan McIntyre 70	3:38.39 JUNE KRAUSER 96	• 400 M. FREESTYLE	2:27.81 Minna Hamner 75
1:58.84 Asako Maningo 72	3:52.06 June Krauser 72	7:01.36 MARGERY MEYER 98	2:32.39 Mary Wixted 76
2:00.83 Florence Carr 73	4:05.29 Lois Nochman 73	7:01.36 Margery Meyer 75	2:34.59 Libby Poole 78
2:01.63 Peggy Sanborn 71	5:02.47 Marian Wolle 70		2:35.62 Edith Glusac 79
2:03.64 Sarah T Allnutt 74	5:15.82 Gladys Olsen 72		2:42.06 H Huggins 76

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2:56.62 Jean Zulich 78	47.31 Rita Simonton 80	5:17.70 Sally Joy 81	2:11.81 Maxine Merlino 86
3:02.63 Livia Walker 76	49.70 Audrey H Etienne 82	5:23.66 Mary Lathram 82	2:38.84 Susan S Hanson 85
• 200 M. BREASTSTROKE	54.75 Anne I Walker 82	5:36.34 Gertrud Zint 81	3:11.46 Madeleine Miller 88
4:32.71 GERTRUD ZINT 93	58.67 Sally Joy 81	6:02.49 Beth Hanks 82	• 200 M. FREESTYLE
4:52.46 Muriel Flynn 75	59.69 Gertrud Zint 81	7:00.97 Jennie Taylor 81	4:37.83 MAXINE MERLINO 98
5:04.67 Jae Howell 76	1:04.19 Kay Schimpf 81	7:58.37 Geneva Kahrs 84	4:37.83 Maxine Merlino 86
5:35.79 H Huggins 76	1:11.78 Mary Lathram 82	• 50 M. BREASTSTROKE	6:14.37 Madeline Miller 88
5:40.75 Edith Glusac 79	1:15.17 Agnes Romayko 84	1:03.71 RITA SIMONTON 98	8:24.88 Margot Lenigk 86
5:54.03 Libby Poole 78	1:19.62 Martha Forster 81	1:03.71 Rita Simonton 80	• 400 M. FREESTYLE
6:31.70 Livia Walker 76	1:23.16 Jennie Taylor 81	1:07.27 Sally Joy 81	9:34.27 MAXINE MERLINO 98
6:51.87 Marjorie Newman 75	• 100 M. FREESTYLE	1:07.75 Gertrud Zint 81	9:34.27 Maxine Merlino 86
• 50 M. BUTTERFLY	1:42.38 RITA SIMONTON 98	1:19.64 Anneliese Zoeller 80	• 800 M. FREESTYLE
55.27 DIANA SILVA 97	1:42.38 Rita Simonton 80	1:30.02 Kay Schimpf 81	19:41.58 MAXINE MERLINO 98
1:00.00 Diana Silva 76	2:08.66 Anne I Walker 82	1:34.86 Hilda G Buel 84	19:41.58 Maxine Merlino 86
1:01.60 Dorothy Donnelly 76	2:12.07 Mary Jane Reeves 81	1:38.11 Marie Wicklun 84	• 1500 M. FREESTYLE
1:05.52 Jae Howell 75	2:12.10 Marie Wicklun 84	1:47.34 Buz Catlin 84	37:28.53 MAXINE MERLINO 98
1:10.19 Jean Zulich 78	2:15.09 Gertrud Zint 81	1:53.69 Beth Hanks 82	37:28.53 Maxine Merlino 86
1:11.25 Mary Wixted 76	2:19.13 Kay Schimpf 81	• 100 M. BREASTSTROKE	• 50 M. BACKSTROKE
1:18.47 Libby Poole 78	2:36.90 Mary Lathram 82	2:19.11 RITA SIMONTON 98	1:05.17 MAXINE MERLINO 98
1:23.64 Marie Kriepe 79	2:41.76 Beth Hanks 82	2:19.11 Rita Simonton 80	1:05.17 Maxine Merlino 86
1:24.74 Rosemary Kariker 79	2:49.83 Agnes Romayko 84	2:36.36 Sally Joy 81	1:27.11 Edie Goldman 88
1:25.23 Edith Glusac 79	2:52.99 Martha Forster 81	2:37.66 Gertrud Zint 81	1:30.30 Madeleine Miller 88
1:25.37 Maurine Kornfeld 76	• 200 M. FREESTYLE	2:52.73 Anneliese Zoeller 80	1:33.95 Hedy Pullman 87
• 100 M. BUTTERFLY	3:37.21 RITA SIMONTON 98	3:03.24 Kay Schimpf 81	1:46.94 Dorothy Riordon 86
2:05.39 DIANA SILVA 97	3:37.21 Rita Simonton 80	3:36.69 Hilda G Buel 84	1:51.16 E Dziadus 88
2:12.30 Diana Silva 76	5:03.86 Gertrud Zint 81	4:41.75 Rose Steward 80	1:59.78 Margot Lenigk 86
2:28.42 Jae Howell 75	5:38.54 Mary Lathram 82	• 200 M. BREASTSTROKE	• 100 M. BACKSTROKE
2:41.87 Jane Dougherty 77	5:50.23 Martha Forster 81	4:49.62 RITA SIMONTON 98	2:24.11 MAXINE MERLINO 98
2:43.75 Mary Wixted 76	5:56.84 Agnew Romayko 84	4:49.62 Rita Simonton 80	2:24.11 Maxine Merlino 86
2:57.87 Jean Zulich 78	6:10.83 Beth Hanks 82	5:54.71 Gertrud Zint 81	3:12.86 Hedy Pullman 87
3:08.12 Edith Glusac 79	7:08.68 Geneva Kahrs 84	6:09.36 Sally Joy 81	3:14.52 Madeline Miller 88
3:16.68 Rosemary Kariker 79	• 400 M. FREESTYLE	6:11.68 Anneliese Zoeller 80	3:26.25 Susan S Hanson 85
5:10.32 Marion Chadwick 76	7:33.69 RITA SIMONTON 98	6:23.76 Mary Jane Reeves 81	• 200 M. BACKSTROKE
8:31.67 Elfie Stevenin 77	7:33.69 Rita Simonton 80	9:18.54 Rose Steward 80	5:13.33 MAXINE MERLINO 98
• 200 M. BUTTERFLY	9:10.88 Jean Durston 84	• 50 M. BUTTERFLY	5:13.33 Maxine Merlino 86
4:48.50 MAXINE MERLINO 88	10:19.04 Mary Jane Reeves 81	1:03.26 JEAN DURSTON 94	6:46.30 Hedy Pullman 87
5:09.49 Diana Silva 76	10:21.91 Gertrud Zint 81	1:10.03 Jean Durston 84	7:03.52 Madeleine Miller 88
5:13.47 Jae Howell 75	12:07.72 Martha Forster 81	1:15.39 Sally Joy 81	• 50 M. BREASTSTROKE
6:46.92 Marjorie Newman 75	12:25.33 Agnes Romayko 84	1:20.81 Audrey H Etienne 82	1:09.77 MARTI GOGNIAT 95
6:56.32 Rosemary Kariker 79	14:22.48 Geneva Kahrs 84	1:22.59 Gertrud Zint 81	1:15.02 Maxine Merlino 86
8:08.12 Zada W Taft 79	• 800 M. FREESTYLE	1:30.00 Kay Schimpf 81	1:27.07 Madeline Miller 88
• 100 M. INDIVIDUAL MEDLEY	15:49.21 RITA SIMONTON 98	2:21.12 Buz Catlin 84	1:53.32 Edie Goldman 88
1:58.06 GERTRUD ZINT 93	15:49.21 Rita Simonton 80	• 100 M. BUTTERFLY	2:00.91 Hedy Pullman 87
1:58.16 Margery Meyer 75	18:52.39 Jean Durston 84	2:28.34 JEAN DURSTON 94	2:02.48 Dorothy Riordon 86
2:03.07 Dorothy Donnelly 76	20:58.35 Mary Jane Reeves 81	2:39.74 Jean D Durston 84	• 100 M. BREASTSTROKE
2:08.14 Diana Silva 76	24:48.52 Martha Forster 81	3:59.44 Hilda G Buel 84	2:38.48 MARTI GOGNIAT 95
2:10.12 Muriel Flynn 75	• 1500 M. FREESTYLE	• 200 M. BUTTERFLY	2:45.96 Maxine Merlino 86
2:14.69 Jae Howell 75	29:48.75 RITA SIMONTON 98	5:22.65 MAXINE MERLINO 92	3:49.87 Madeline Miller 88
2:16.11 Nancy Phillips 76	29:48.75 Rita Simonton 80	5:37.51 Jean Durston 84	4:55.20 Margot Lenigk 86
2:18.85 Rita D Evans 78	49:12.76 Martha Forster 81	• 100 M. INDIVIDUAL MEDLEY	• 200 M. BREASTSTROKE
2:20.16 Mary Wixted 76	• 50 M. BACKSTROKE	2:07.52 MAXINE MERLINO 92	5:59.36 MARTI GOGNIAT 97
2:25.58 Billie A Burrill 77	56.42 MARJORIE SHARPE 97	2:22.16 Audrey H Etienne 82	8:29.99 Madeleine Miller 88
2:30.86 Maurine Kornfeld 76	57.70 Anne I Walker 82	2:26.38 Jean D Durston 84	• 50 M. BUTTERFLY
• 200 M. INDIVIDUAL MEDLEY	1:05.74 Marie Wicklun 84	2:31.50 Gertrud Zint 81	1:24.22 JEWEL COOKE 96
4:17.89 MAXINE MERLINO 88	1:06.34 Audrey H Etienne 82	2:32.94 Sally Joy 81	1:16.71 Maxine Merlino 86NV
4:38.84 Diana Silva 76	1:06.57 Gertrud Zint 81	3:41.71 Hilda G Buel 84	1:48.50 Pearl Sobel 86
4:41.59 Muriel Flynn 75	1:13.57 Mary Lathram 82	3:57.20 Buz Catlin 84	1:53.57 Edie Goldman 88
4:46.29 Jae Howell 76	1:19.86 Anneliese Zoeller 80	• 200 M. INDIVIDUAL MEDLEY	1:58.71 Susan S Hanson 85
4:54.28 Jane Dougherty 77	1:22.15 Beth Hanks 82	4:45.32 JEAN DURSTON 95	• 100 M. BUTTERFLY
5:15.17 Mary Wixted 76	1:28.93 Jennie Taylor 81	5:10.29 Jean Durston 84	3:20.81 JEWEL COOKE 96
5:32.94 Marjorie Newman 75	1:49.52 Martha Forster 81	5:35.71 Gertrud Zint 81	2:51.00 Maxine Merlino 86NV
5:33.31 Jean Zulich 78	• 100 M. BACKSTROKE	• 400 M. INDIVIDUAL MEDLEY	• 200 M. BUTTERFLY
5:42.14 Edith Glusac 79	2:05.60 MARJORIE SHARPE 97	9:50.43 MAXINE MERLINO 92	6:01.46 MAXINE MERLINO 98
6:14.24 Maxine Carlson 78	2:07.19 Anne I Walker 82	10:48.43 Jean Durston 84	6:01.46 Maxine Merlino 86
6:17.30 Rosemary Kariker 79	2:16.63 Marie Wicklun 84		• 100 M. INDIVIDUAL MEDLEY
• 400 M. INDIVIDUAL MEDLEY	2:29.55 Sally Joy 81	WOMEN 85-89	2:12.85 JEWEL COOKE 95
9:07.66 MAXINE MERLINO 88	2:39.28 Mary Lathram 82	• 50 M. FREESTYLE	2:27.70 Maxine Merlino 86
9:46.54 Diana Silva 76	2:39.97 Gertrud Zint 81	51.99 JULIA DOLCE 95	3:32.25 Edie Goldman 88
10:05.42 Jae Howell 76	2:45.82 Beth Hanks 82	57.78 Maxine Merlino 86	5:22.05 Margot Lenigk 86
11:53.92 Marjorie Newman 75	3:19.64 Jennie Taylor 81	1:13.82 Pearl Sobel 86	• 200 M. INDIVIDUAL MEDLEY
12:05.95 Edith Glusac 79	3:30.96 Buz Catlin 84	1:19.83 Evie Henry 86	5:12.13 MAXINE MERLINO 98
13:21.29 Rosemary Kariker 79	3:37.61 Geneva Kahrs 84	1:28.19 Edie Goldman 88	5:12.13 Maxine Merlino 86
17:03.33 Elfie Stevenin 77	4:12.31 Rose Steward 80	1:38.18 Hedy Pullman 87	• 400 M. INDIVIDUAL MEDLEY
	• 200 M. BACKSTROKE	1:39.90 Margot Lenigk 86	11:02.02 MAXINE MERLINO 98
	4:31.01 MARJORIE SHARPE 97	1:53.30 E Dziadus 88	11:02.02 Maxine Merlino 86
WOMEN 80-84	4:35.24 Anne I Walker 82		
• 50 M. FREESTYLE	4:54.45 Marie Wicklun 84	• 100 M. FREESTYLE	WOMEN 90-94
45.84 MARJORIE SHARPE 97	5:15.84 Jean D Durston 84	2:05.74 JULIA DOLCE 95	

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

<ul style="list-style-type: none"> • 50 M. FREESTYLE 1:36.77 ANNA BAUSCHER 93 NO SWIMMERS • 100 M. FREESTYLE 3:24.13 ANNA BAUSCHER 93 NO SWIMMERS • 200 M. FREESTYLE 7:01.11 ANNA BAUSCHER 93 NO SWIMMERS • 400 M. FREESTYLE 14:16.35 ANNA BAUSCHER 93 NO SWIMMERS • 800 M. FREESTYLE 28:45.45 ANNA BAUSCHER 93 NO SWIMMERS 	<ul style="list-style-type: none"> 29.44 Ryan Warren 23 31.54 Brandon Bateman 19 31.60 Darren Sewell 23 31.65 Stewart Hendrix 21 31.91 David M Kraft 22 32.46 Ryan Thierbach 24 32.53 Ealing Jahn 22 32.84 Clint Densham 21 • 100 M. BACKSTROKE 58.98 OSIRIS BRISENO 98 58.98 Osiris Briseno 22 59.24 Lee G Wanie 24 1:02.13 Davey Elder 22 1:03.84 Tom Richner 23 1:05.96 Stewart Hendrix 21 1:07.45 Ken Heis 23 1:07.62 Eric Schafer 20 1:07.94 David M Kraft 22 1:08.51 Tal Zamir 22 1:09.76 J Armstrong 23 • 200 M. BACKSTROKE 2:08.81 SERGEY MARINIUK 93 2:12.33 Osiris Briseno 22 2:17.40 Marcus Chung 22 2:20.23 Ryan Warren 23 2:36.79 Steve Kim 22 2:52.24 Charles E Bowman 23 2:54.92 Clinton Fisher 24 3:00.21 Richard Healing 23 3:30.69 Aldo Portillo 22 • 50 M. BREASTSTROKE 29.76 AARON BARTLESON 95 30.65 Steven Bergen 23 31.62 Ealing Jahn 22 32.10 Timothy Wood 23 33.24 Tommy Newcomb 24 34.10 Ryan Sutton 22 34.16 Fernando Catabian 20 34.34 Adam Sagarwala 19 34.39 Brian Fisak 24 34.89 Jeffrey W Peters 24 34.97 Craig Badinger 24 • 100 M. BREASTSTROKE 1:05.52 TODD RADEL 96 1:08.53 Steven Bergen 23 1:10.01 J Armstrong 23 1:11.17 Ealing Jahn 22 1:11.83 Fernando Catabian 20 1:14.39 James Tsai 24 1:15.01 Tommy Newcomb 24 1:15.41 Stewart Hendrix 21 1:15.69 Tal Zamir 22 1:16.24 Paulo Madiera 24 1:16.72 Ken Heis 23 • 200 M. BREASTSTROKE 2:22.78 TODD RADEL 96 2:28.60 Steven Bergen 23 2:36.19 Fernando Catabian 20 2:41.80 Wonkee Moon 23 2:46.74 Steve Ruthford 23 2:50.15 Ted Murphy 24 2:50.81 Corey Sklov 22 2:51.34 Kelvin Ng 21 2:51.68 Craig Badinger 24 2:54.06 Clinton Fisher 24 2:54.28 Phillipe Kozub 22 • 50 M. BUTTERFLY 26.24 JEFF FELTZER 95 26.61 Cito Vasconcellos 24 26.69 Tom Richner 23 27.32 Charlie Weisman 23 27.42 John Collins 24 27.92 Ken Heis 23 27.96 Stephen So 24 28.15 Jeremy Zecher 19 28.71 Marc Lewis 20 29.14 Ealing Jahn 22 29.36 Brandon Bateman 19 	<ul style="list-style-type: none"> • 100 M. BUTTERFLY 55.64 Rob Butcher 26 57.54 JEFF POPPELL 93 57.88 Scott Wester 24 59.31 Osiris Briseno 22 1:00.81 Cito Vasconcellos 24 1:00.95 Walter Bell 23 1:00.98 Tom Richner 23 1:02.18 Jeremy Zecher 19 1:03.19 J Armstrong 23 1:03.75 Charlie Weisman 23 1:05.14 Marc Lewis 20 1:05.54 Ryan Warren 23 • 200 M. BUTTERFLY 2:07.64 JEFF POPPELL 93 2:27.43 Jeremy Zecher 19 2:28.96 Marc Lewis 20 2:35.54 Tal Zamir 22 3:02.60 Steve Kim 22 3:17.44 Clinton Fisher 24 • 100 M. INDIVIDUAL MEDLEY 59.18 AARON BARTLESON 95 1:00.63 Lee G Wanie 24 1:03.77 Steven Bergen 23 1:04.47 Ken Heis 23 1:04.54 Charlie Weisman 23 1:05.25 Stephen So 24 1:05.46 Timothy Wood 23 1:05.52 Ealing Jahn 22 1:05.62 Tal Zamir 22 1:07.65 Brendan Tully 20 1:07.67 Stewart Hendrix 21 • 200 M. INDIVIDUAL MEDLEY 2:08.88 SERGEY MARINIUK 93 2:10.99 Osiris Briseno 22 2:21.14 J Armstrong 23 2:26.78 Tal Zamir 22 2:28.86 Paulo Madiera 24 2:32.18 William C Faries 24 2:32.18 Erik Rikansrund 22 2:38.21 Joshua M Lee 19 2:38.64 Chris Connor 23 2:38.98 Jeffrey Bogda 24 2:40.02 William Brundige 23 • 400 M. INDIVIDUAL MEDLEY 4:28.54 SERGEY MARINIUK 93 5:27.92 Stephen So 24 5:34.90 Michael Friedman 21 5:41.12 Kelvin Ng 21 5:45.51 Clinton Fisher 24 5:52.86 Jim Liguori 23 6:14.38 Adam Sagarwala 19
<p>MEN 19-24</p> <hr style="width: 20%; margin: auto;"/>		
<ul style="list-style-type: none"> • 50 M. FREESTYLE 23.36 ED WAGNER 95 23.88 Lee G Wanie 24 23.88 Scott Wester 24 24.21 Osiris Briseno 22 24.99 Davey Elder 22 25.43 John Collins 24 25.55 Charlie Weisman 23 25.61 M Hanneschlager 24 25.76 Tom Richner 23 25.79 Ealing Jahn 22 25.85 Ted Murphy 24 • 100 M. FREESTYLE 52.64 ED WAGNER 95 52.95 Scott Wester 24 53.76 Lee G Wanie 24 53.86 Osiris Briseno 22 54.99 Marcus Chung 22 56.72 Ealing Jahn 22 56.98 Stephen So 24 56.99 Russell Kominski 24 57.08 Ted Murphy 24 57.09 Ken Heis 23 57.24 David Hughes 23 • 200 M. FREESTYLE 1:54.23 BRAD WINSOR 95 2:03.45 Marcus Chung 22 2:05.20 John Collins 24 2:09.77 Timothy Wood 23 2:12.38 Michael Kotch 22 2:13.67 Marc Lewis 20 2:13.84 William C Faries 24 2:14.23 Colin Walker 22 2:16.20 Jeffrey Bogda 24 2:16.67 Chris Connor 23 2:18.59 Corey Sklov 22 • 400 M. FREESTYLE 4:03.45 BRAD WINSOR 95 4:45.14 William C Faries 24 4:49.39 Russell Kominski 24 4:51.40 Tommy Newcomb 24 4:52.36 Michael Friedman 23 4:59.72 Steve Ruthford 21 5:01.65 Marc Lewis 20 5:12.96 Jim Liguori 23 • 800 M. FREESTYLE 8:35.83 BRAD WINSOR 95 10:21.46 Marc Lewis 20 10:26.66 Chris Connor 23 10:30.22 Shawn Burns 19 10:47.06 Kelvin Ng 21 • 1500 M. FREESTYLE 16:15.25 JEFF POPPELL 93 19:38.17 Michael Friedman 21 19:42.67 Marc Lewis 20 20:04.43 Chris Connor 23 • 50 M. BACKSTROKE 27.48 AARON BARTLESON 95 27.99 Lee G Wanie 24 28.01 Osiris Briseno 22 	<ul style="list-style-type: none"> 26.00 MICHAEL KANNER 95 27.03 Scott Tripps 28 27.74 Marc Rinzler 27 27.88 Timothy J O'Mara 26 29.13 Mike Kramp 25 29.16 Barry Saretsky 29 29.48 Corey Carlisle 27 29.61 James Ralph 25 29.69 Graham Ginn 26 29.74 Erik Scollon 26 30.54 Andrew Farrell 27 • 100 M. BACKSTROKE 55.76 JOHN KEPPELER 95 59.09 Marc Rinzler 27 1:00.05 Timothy J O'Mara 26 1:00.72 Nelson Vargas 25 1:04.93 Mike Kramp 25 1:05.23 Andrew Farrell 27 1:05.30 Chappie De Haven 29 1:05.93 James Ralph 25 1:06.01 Todd Doherty 27 1:06.70 Brian Tobin 26 1:10.07 Kimo Phillips 26 • 200 M. BACKSTROKE 2:02.63 JOHN KEPPELER 95 2:10.09 Timothy J O'Mara 26 2:11.95 Nenad Rodic 28 2:18.14 Barry Saretsky 29 	<ul style="list-style-type: none"> • 100 M. BUTTERFLY 55.64 Rob Butcher 26 57.54 JEFF POPPELL 93 57.88 Scott Wester 24 59.31 Osiris Briseno 22 1:00.81 Cito Vasconcellos 24 1:00.95 Walter Bell 23 1:00.98 Tom Richner 23 1:02.18 Jeremy Zecher 19 1:03.19 J Armstrong 23 1:03.75 Charlie Weisman 23 1:05.14 Marc Lewis 20 1:05.54 Ryan Warren 23 • 200 M. BUTTERFLY 2:07.64 JEFF POPPELL 93 2:27.43 Jeremy Zecher 19 2:28.96 Marc Lewis 20 2:35.54 Tal Zamir 22 3:02.60 Steve Kim 22 3:17.44 Clinton Fisher 24 • 100 M. INDIVIDUAL MEDLEY 59.18 AARON BARTLESON 95 1:00.63 Lee G Wanie 24 1:03.77 Steven Bergen 23 1:04.47 Ken Heis 23 1:04.54 Charlie Weisman 23 1:05.25 Stephen So 24 1:05.46 Timothy Wood 23 1:05.52 Ealing Jahn 22 1:05.62 Tal Zamir 22 1:07.65 Brendan Tully 20 1:07.67 Stewart Hendrix 21 • 200 M. INDIVIDUAL MEDLEY 2:08.88 SERGEY MARINIUK 93 2:10.99 Osiris Briseno 22 2:21.14 J Armstrong 23 2:26.78 Tal Zamir 22 2:28.86 Paulo Madiera 24 2:32.18 William C Faries 24 2:32.18 Erik Rikansrund 22 2:38.21 Joshua M Lee 19 2:38.64 Chris Connor 23 2:38.98 Jeffrey Bogda 24 2:40.02 William Brundige 23 • 400 M. INDIVIDUAL MEDLEY 4:28.54 SERGEY MARINIUK 93 5:27.92 Stephen So 24 5:34.90 Michael Friedman 21 5:41.12 Kelvin Ng 21 5:45.51 Clinton Fisher 24 5:52.86 Jim Liguori 23 6:14.38 Adam Sagarwala 19
<p>MEN 25-29</p> <hr style="width: 20%; margin: auto;"/>		
<ul style="list-style-type: none"> • 50 M. FREESTYLE 22.48 PEEL/WAGNER 96 23.57 Graham Ginn 26 23.83 Ed Wagner 27 24.48 Barry Saretsky 29 24.62 Todd Dreitzler 28 24.67 Rob Butcher 26 24.71 Nelson Vargas 25 25.01 Brian August 28 25.03 Craig Crawford 28 25.14 Shannon Tucker Lo 26 25.36 Paul Littlefield 28 25.36 Ed G Owen 27 • 100 M. FREESTYLE 49.91 BJORN ZIKARSKY 95 52.86 Graham Ginn 26 53.53 Marc Rinzler 27 54.28 Nelson Vargas 25 54.40 Barry Saretsky 29 54.81 Craig Crawford 28 54.94 Ed G Owen 27 55.37 Carlo Waldfried 29 55.37 Emmitt Smith 26 55.58 Andrew Farrell 27 	<ul style="list-style-type: none"> 26.00 MICHAEL KANNER 95 27.03 Scott Tripps 28 27.74 Marc Rinzler 27 27.88 Timothy J O'Mara 26 29.13 Mike Kramp 25 29.16 Barry Saretsky 29 29.48 Corey Carlisle 27 29.61 James Ralph 25 29.69 Graham Ginn 26 29.74 Erik Scollon 26 30.54 Andrew Farrell 27 • 100 M. BACKSTROKE 55.76 JOHN KEPPELER 95 59.09 Marc Rinzler 27 1:00.05 Timothy J O'Mara 26 1:00.72 Nelson Vargas 25 1:04.93 Mike Kramp 25 1:05.23 Andrew Farrell 27 1:05.30 Chappie De Haven 29 1:05.93 James Ralph 25 1:06.01 Todd Doherty 27 1:06.70 Brian Tobin 26 1:10.07 Kimo Phillips 26 • 200 M. BACKSTROKE 2:02.63 JOHN KEPPELER 95 2:10.09 Timothy J O'Mara 26 2:11.95 Nenad Rodic 28 2:18.14 Barry Saretsky 29 	<ul style="list-style-type: none"> • 100 M. BUTTERFLY 55.64 Rob Butcher 26 57.54 JEFF POPPELL 93 57.88 Scott Wester 24 59.31 Osiris Briseno 22 1:00.81 Cito Vasconcellos 24 1:00.95 Walter Bell 23 1:00.98 Tom Richner 23 1:02.18 Jeremy Zecher 19 1:03.19 J Armstrong 23 1:03.75 Charlie Weisman 23 1:05.14 Marc Lewis 20 1:05.54 Ryan Warren 23 • 200 M. BUTTERFLY 2:07.64 JEFF POPPELL 93 2:27.43 Jeremy Zecher 19 2:28.96 Marc Lewis 20 2:35.54 Tal Zamir 22 3:02.60 Steve Kim 22 3:17.44 Clinton Fisher 24 • 100 M. INDIVIDUAL MEDLEY 59.18 AARON BARTLESON 95 1:00.63 Lee G Wanie 24 1:03.77 Steven Bergen 23 1:04.47 Ken Heis 23 1:04.54 Charlie Weisman 23 1:05.25 Stephen So 24 1:05.46 Timothy Wood 23 1:05.52 Ealing Jahn 22 1:05.62 Tal Zamir 22 1:07.65 Brendan Tully 20 1:07.67 Stewart Hendrix 21 • 200 M. INDIVIDUAL MEDLEY 2:08.88 SERGEY MARINIUK 93 2:10.99 Osiris Briseno 22 2:21.14 J Armstrong 23 2:26.78 Tal Zamir 22 2:28.86 Paulo Madiera 24 2:32.18 William C Faries 24 2:32.18 Erik Rikansrund 22 2:38.21 Joshua M Lee 19 2:38.64 Chris Connor 23 2:38.98 Jeffrey Bogda 24 2:40.02 William Brundige 23 • 400 M. INDIVIDUAL MEDLEY 4:28.54 SERGEY MARINIUK 93 5:27.92 Stephen So 24 5:34.90 Michael Friedman 21 5:41.12 Kelvin Ng 21 5:45.51 Clinton Fisher 24 5:52.86 Jim Liguori 23 6:14.38 Adam Sagarwala 19

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

2:20.01 James Ralph 25	2:34.97 Ed Wagner 27	4:14.98 Chip L Hobson 31	33.55 Robert Dettmer 33
2:21.62 Andrew Farrell 27	• 100 M. INDIVIDUAL MEDLEY	4:18.63 Randall Eickhoff 33	33.82 Tom Northcutt 33
2:24.82 James Wolfe 29	58.36 NEILL WILLIAMS 96	4:20.37 Stuart Cromarty 34	33.92 Enrique Erosa 34
2:24.93 Matthew Grahn 26	58.82 Marc Rinzler 27	4:20.73 Michael Collins 32	34.22 Erik Linnane 30
2:25.00 Russell Kominski 25	59.81 Todd Dreitzler 28	4:21.01 Chris Hall 31	• 100 M. BREASTSTROKE
2:28.01 Chappie De Haven 29	1:00.43 Craig Crawford 28	4:21.03 Jason C Nielsen 31	1:04.33 DAVID GUTHRIE 93
2:30.45 Paul Littlefield 28	1:02.24 Graham Ginn 26	4:27.51 Joe Vrudny 33	1:07.90 Roque Santos 30
• 50 M. BREASTSTROKE	1:02.38 Jeff Murray 29	4:28.32 Douglas Stewart 34	1:08.17 Neill Williams 30
29.08 JOHN WALDMAN 89	1:02.58 Timothy J O'Mara 26	4:36.06 Jeff Colton 33	1:11.31 James Harper 30
30.28 Rob Butcher 26	1:02.71 Todd Doherty 27	4:36.45 Doug Chestnut 33	1:12.95 Tom Northcutt 33
30.59 Jonathan Banville 28	1:02.87 Barry Saretsky 29	• 800 M. FREESTYLE	1:13.43 Rob Berry 30
30.74 Craig Crawford 28	1:03.18 Jeffrey H Roddin 29	8:19.44 BRUCE HAYES 94	1:14.15 Dan Frost 30
32.20 Tony Rezek 26	1:03.99 Justin Slade 25	8:46.63 Mike Shaffer 33	1:14.68 Eric Neilsen 32
32.46 Will Johnson 27	• 200 M. INDIVIDUAL MEDLEY	8:54.65 Jason C Nielsen 31	1:14.97 Michael J Lane 30
32.57 Justin Slade 25	2:05.93 JOHN KEPPELER 95	9:05.49 Randall Eickhoff 33	1:15.38 Erik Linnane 30
32.63 Todd Doherty 27	2:07.47 Marc Rinzler 27	9:12.75 Michael Collins 32	1:15.71 Robert Dettmer 33
33.44 James L Taschek 27	2:17.50 Timothy J O'Mara 26	9:19.48 Joe Vrudny 33	• 200 M. BREASTSTROKE
33.47 Craig Dewing 28	2:17.86 Bill Zolna 29	9:34.39 Doug Chestnut 33	2:22.97 ROGUE SANTOS 98
34.03 Norman Noe 29	2:19.00 Barry Saretsky 29	9:47.25 Matthew Roth 31	2:22.97 Roque Santos 30
• 100 M. BREASTSTROKE	2:19.37 Sextus Tansinsin 26	9:50.79 Bruce Hopson 32	2:36.09 Dale Mercker 31
1:04.43 ABRAHAM SOLANO 96	2:19.75 James Ralph 25	9:52.07 John Bobbin 32	2:38.80 Michael Collins 32
1:05.56 Jonathan Banville 28	2:19.81 Jonathan Banville 28	9:53.46 William Riddell 30	2:41.55 Dan Frost 30
1:07.84 Craig Crawford 28	2:23.79 Ron Forrest 27	• 1500 M. FREESTYLE	2:42.95 Guy Genin 30
1:09.02 Rob Butcher 26	2:24.68 Jay O'Connor 29	16:15.49 MIKE SHAFFER 95	2:45.24 Steve Ruitter 33
1:10.98 Tony Rezek 26	2:24.88 Robert Harms 28	16:27.87 Mike Shaffer 33	2:46.77 Eric Neilsen 32
1:11.44 Todd Doherty 27	• 400 M. INDIVIDUAL MEDLEY	17:06.85 Randall Eickhoff 33	2:47.46 Matthew Roth 31
1:12.17 Matt Walters 27	4:26.79 JOHN KEPPELER 95	17:36.56 Michael Collins 32	2:48.58 Jeff Colton 33
1:13.00 Will Johnson 27	4:33.70 Marc Rinzler 27	18:34.22 John Bobbin 32	2:48.62 David Kovach 30
1:13.67 James Ralph 25	4:51.27 Bill Zolna 29	18:47.08 William Riddell 30	• 50 M. BUTTERFLY
1:14.45 Jeffrey Jotz 28	4:55.15 Matthew Kinney 28	18:56.75 Matthew Roth 31	25.06 MICHAEL BOTTOM 89
1:14.97 C Colburn 26	5:03.00 James Wolfe 29	20:07.95 Richard Rogers 33	26.46 Steve Nichols 34
• 200 M. BREASTSTROKE	5:06.42 Jonathan Banville 28	20:25.60 Eric Neilsen 32	26.72 Mike Shaffer 33
2:20.43 ABRAHAM SOLANO 96	5:06.51 Russell Kominski 25	20:46.23 Bryan Albert 32	26.74 Neill Williams 30
2:25.32 Jonathan Banville 28	5:13.26 Jay O'Connor 29	21:35.67 Don Dipalma 33	26.88 Mike Sorensen 30
2:29.37 Matthew Kinney 28	5:15.34 Matt Walters 27	• 50 M. BACKSTROKE	27.22 Stuart Barton 30
2:30.94 Rob Butcher 26	5:16.48 Michael Kula 25	26.58 JAY YARID 94	27.48 Jim Jordan 32
2:38.36 James L Taschek 27	5:23.67 Alan B Liu 26	28.30 Jim Harvey 32	27.77 Matthew Roth 31
2:38.93 Tony Rezek 26		28.74 Mike Shaffer 33	28.00 Stuart Cromarty 34
2:41.62 James Wolfe 29	MEN 30-34	29.01 Robert Kabacy 30	28.05 David Balis 31
2:45.94 Guy Genin 29	• 50 M. FREESTYLE	29.22 Jeff Colton 33	28.14 Pete Rahko 32
2:47.44 Craig Dewing 28	23.59 ROBERT KILLEEN 93	29.41 Rob Berry 30	• 100 M. BUTTERFLY
2:47.74 Russell Kominski 25	23.52 Bjorn Zikarsky 31NV	30.09 Mark Steele 31	56.35 PETER EGAN 95
2:47.87 Norman Noe 29	24.80 Robert Kabacy 30	30.41 James Harper 30	57.88 Mike Shaffer 33
• 50 M. BUTTERFLY	24.81 Mike Sorensen 30	30.44 Stuart Cromarty 34	1:00.08 Neill Williams 30
25.28 BYRON DAVIS 97	24.91 Steve Nichols 34	30.47 Marc Fessler 33	1:00.37 Matthew Roth 31
25.52 Karney McNear 29	24.93 Neill Williams 30	30.52 David McNear 30	1:00.78 Stuart Cromarty 34
25.82 Marc Rinzler 27	24.99 Patrick Wrynn 33	• 100 M. BACKSTROKE	1:01.20 Stuart Barton 30
26.38 Todd Dreitzler 28	24.99 Stuart Barton 30	56.83 JAY YARID 93	1:01.46 Guy Genin 30
26.43 Ed Wagner 27	25.27 Mike Shaffer 33	1:02.04 Rob Berry 30	1:01.98 John O'Keefe 31
26.48 Barry Saretsky 29	25.29 Robert Young 34	1:02.71 Jeff Colton 33	1:02.06 Bjorn Zikarsky 31
26.89 Scott Tripps 28	25.36 Stuart Cromarty 34	1:04.47 Dave Kastigar 34	1:02.07 Mike Sorensen 30
26.94 Timothy J O'Mara 26	• 100 M. FREESTYLE	1:05.28 Phillip King 32	1:02.53 Stan Kroder 33
26.97 Jeff Murray 29	51.86 JAMES MONTGOMERY 89	1:05.41 Tom Northcutt 33	• 200 M. BUTTERFLY
27.08 Jeffrey H Roddin 29	52.22 Bjorn Zikarsky 31	1:05.56 Mark Steele 31	2:04.59 MIKE SHAFFER 95
27.13 Graham Ginn 26	53.78 Mike Shaffer 33	1:06.16 Marc Fessler 33	2:09.69 Mike Shaffer 33
• 100 M. BUTTERFLY	54.88 Robert Kabacy 30	1:06.19 Stuart Cromarty 34	2:16.08 Randall Eickhoff 33
56.11 MARTIN HERRMANN 95	54.96 Chip L Hobson 31	1:06.88 Jim Jordan 32	2:18.98 Stuart Cromarty 34
57.06 Marc Rinzler 27	56.35 Phil Andrew 31	1:07.04 Jeff Bakehorn 34	2:19.21 Matthew Roth 31
59.33 Barry Saretsky 29	56.41 Richard Landry 34	• 200 M. BACKSTROKE	2:21.21 Steve Ruitter 33
59.86 Bill Zolna 29	56.68 Robert Young 34	2:04.63 JAY YARID 93	2:21.67 Douglas Stewart 34
59.93 Mark Goldman 26	56.72 Duffy Cutler 34	2:18.93 Dave Kastigar 34	2:22.95 Mike Sorensen 30
1:01.07 Carlo Waldfried 29	56.72 Jason C Nielsen 31	2:19.41 Doug Chestnut 33	2:22.99 Bruce Hopson 32
1:01.18 Timothy J O'Mara 26	57.18 Steve Seiner 30	2:19.68 Rob Berry 30	2:23.61 Henry Baker 31
1:01.64 Will Johnson 27	• 200 M. FREESTYLE	2:23.03 Matthew Roth 31	2:23.74 Michael Collins 32
1:03.27 Eric Yen 25	1:52.83 BRUCE HAYES 94	2:23.33 Joe Vrudny 33	• 100 M. INDIVIDUAL MEDLEY
1:03.33 Emmitt Smith 26	1:57.37 Mike Shaffer 33	2:24.76 Danilo Vicioso 34	59.95 J. CLAY BRITT 92
1:03.34 Christoph Moulson 29	2:01.03 Chip L Hobson 31	2:25.11 Mark Steele 31	1:00.44 Neill Williams 30
• 200 M. BUTTERFLY	2:01.65 Chris Hall 31	2:26.66 Christopher Wood 30	1:01.56 Jim Harvey 32
2:09.02 DOUG WAGNER 95	2:04.70 Matthew Roth 31	2:31.81 Michael Collins 32	1:02.50 Rob Berry 30
2:12.51 Bill Zolna 29	2:04.99 Derek Brown 33	2:32.26 Chip L Hobson 31	1:03.14 Bjorn Zikarsky 31
2:18.25 Sextus Tansinsin 26	2:05.22 Douglas Stewart 34	• 50 M. BREASTSTROKE	1:04.01 Derek Brown 33
2:21.13 James Wolfe 29	2:05.33 Phil Andrew 31	29.21 DEAN PUTTERMAN 96	1:04.17 Matthew Roth 31
2:22.33 Matt Walters 27	2:05.51 Stuart Cromarty 34	30.94 Neill Williams 30	1:04.38 Jeff Colton 33
2:23.41 Russell Kominski 25	2:06.11 Richard Landry 34	31.34 Roque Santos 30	1:04.55 Stan Kroder 33
2:24.14 Michael MacArthur 26	2:06.13 Duffy Cutler 34	32.53 Rob Berry 30	1:04.58 Danilo Vicioso 34
2:24.27 Stewart D Reid 26	• 400 M. FREESTYLE	32.60 M Terahigashi 31	1:05.14 Tom Northcutt 33
2:32.19 Mark Goldman 27	3:59.83 BRUCE HAYES 94	33.41 Michael J Lane 30	• 200 M. INDIVIDUAL MEDLEY
2:34.01 Alan B Liu 26		33.53 S VanKuilenburg 33	2:10.69 MICHAEL GREEN 96

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

2:12.44 Roque Santos 30	9:30.22 David J Brancamp 37	1:16.54 Doug Lance 37	5:11.03 Gerry Rodrigues 36
2:18.65 Stuart Cromarty 34	9:42.23 Jeff Crosson 37	• 200 M. BREASTSTROKE	5:11.80 Bill Staebell 36
2:19.50 Randall Eickhoff 33	9:47.79 Chris Roth 39	2:26.18 RON SCHAFFER 96	5:16.26 Daniel Allen 36
2:21.27 John O'Keefe 31	9:48.04 David Thomson 39	2:24.50 Wally Dicks 35NV	5:22.25 Steve George 39
2:21.90 Matthew Roth 31	10:00.56 Daniel Allen 36	2:36.60 David Guthrie 38	5:24.47 Jim C Wheeler 37
2:22.64 Danilo Vicioso 34	10:06.26 David Salopek 35	2:38.12 Steve Grossman 36	5:25.26 Brent Bunnell 35
2:23.24 Douglas Stewart 34	10:08.20 Edmund Gendreau 36	2:40.04 Daniel Allen 36	5:30.29 David J Brancamp 37
2:23.40 Tom Northcutt 33	• 1500 M. FREESTYLE	2:40.34 J Kochendorfer 37	
2:24.09 James Harper 30	16:22.20 BOBBY PATTEN 98	2:40.61 Edmund Gendreau 36	MEN 40-44
2:24.10 Rob Berry 30	16:22.20 Bobby Patten 35	2:46.89 Brian Vaile 36	
• 400 M. INDIVIDUAL MEDLEY	17:36.93 Gerry Rodrigues 36	2:48.22 Stuart Mair 38	• 50 M. FREESTYLE
4:35.97 BRUCE HAYES 94	18:26.65 Chris Roth 39	2:48.75 Leo Espinosa 38	24.40 JOHN TUDOR 97
4:57.34 Jason C Nielsen 31	18:28.81 Bill Staebell 36	2:49.75 Jim Petruska 36	24.34 Jack Groselle 44NV
4:58.54 Randall Eickhoff 33	18:29.04 Karl Kolb 37	• 50 M. BUTTERFLY	24.75 Peter Nunan 40
4:59.60 Douglas Stewart 34	18:37.34 Jeff Crosson 37	25.89 WILLIAM SPECHT 93	25.40 Michael Scott 41
5:00.43 Chip L Hobson 31	18:49.21 Brent Bunnell 35	26.61 Brad Hering 37	25.41 John Piecuch 42
5:02.35 Michael Collins 32	18:54.22 Mike Lang 36	27.06 Wally C Dicks 35	25.74 Eric Van Boer 43
5:03.55 Matthew Roth 31	19:03.06 Edmund Gendreau 36	27.61 Rory R Lewis 36	25.80 Chris Dixon 41
5:03.62 Stuart Cromarty 34	19:18.09 Daniel Allen 36	27.66 Alan Voisard 38	25.89 Jose Cunningham 42
5:04.15 Steve Ruiter 33	• 50 M. BACKSTROKE	27.66 Edmund Gendreau 36	25.90 Andy Braun 40
5:04.31 Jeff Colton 33	26.84 CLAY BRITT 96	27.72 James Lilley 38	26.19 Bill Knisely 42
5:14.61 Dave Kastigar 34	26.95 Clay J Britt 37	28.05 Dale E McElhattan 36	26.29 Kevin Drake 41
	28.23 Michael Fell 36	28.36 Brian Vaile 36	• 100 M. FREESTYLE
MEN 35-39	28.70 Brad Hering 37	28.43 Chris Roth 39	53.25 RICK ABBOTT 95
	29.05 Kipp Dye 35	29.02 Dick Ringer 39	53.20 Jack Groselle 44NV
• 50 M. FREESTYLE	29.70 Dale E McElhattan 36	• 100 M. BUTTERFLY	54.09 Peter Nunan 40
23.80 BRUCE STAHL 94	29.94 Steve George 39	57.02 WILLIAM SPECHT 93	56.52 Steve Sussex 43
23.93 Mark Noetzel 36	31.16 Bob Fish 35	1:01.37 Edmund Gendreau 36	57.69 Bill Adkison 43
24.52 James Lilley 38	31.17 M Shepardson 38	1:01.48 Chris Roth 39	57.90 Peter Worland 40
24.85 Michael Fell 36	31.29 Mike Dowhy 35	1:01.66 Kurt Wienants 35	58.38 Larry Wood 44
24.94 M Shepardson 38	31.65 John Gleason 38	1:04.81 Tom Latourrette 35	58.42 Jim Sorensen 40
25.02 Rory R Lewis 36	• 100 M. BACKSTROKE	1:05.37 Jon Smiley 36	58.45 Kevin Drake 41
25.07 Wally Dicks 35	58.25 CLAY BRITT 96	1:05.64 Dick Ringer 39	58.75 Jonathan Klein 41
25.07 Kipp Dye 35	1:01.85 Mike Frazer 37	1:06.17 Kirk Buese 38	58.89 Alan Godfrey 41
25.15 Alex Bailey 37	1:02.47 Michael Fell 36	1:07.32 Chris French 36	• 200 M. FREESTYLE
25.15 Kurt Wienants 35	1:03.81 Steve George 39	1:07.78 Mike Reid 37	1:57.83 HESS YNTEMA 95
25.21 Michael Fell 36	1:05.12 Bob Fish 35	1:07.87 Greg Pottie 37	2:02.60 Nate Leigh 42
• 100 M. FREESTYLE	1:09.31 Brian Vaile 36	• 200 M. BUTTERFLY	2:06.99 Larry Wood 44
53.30 PETER NUNAN 97	1:09.33 Edmund Gendreau 36	2:06.48 WILLIAM SPECHT 94	2:07.09 Jim Stites 41
54.79 James Lilley 38	1:09.57 Jon Smiley 36	2:17.34 Chris Roth 39	2:08.13 Steve Sussex 43
54.88 Michael Fell 36	1:09.61 Daniel Allen 36	2:21.52 Scott Halliburton 36	2:09.06 Larry Black 40
55.47 Michael Fell 36	1:10.28 David J Brancamp 37	2:22.49 Bill Staebell 36	2:10.35 Thomas Boyd 42
55.60 Brad Hering 37	1:10.39 Scott Brinitzer 35	2:25.56 Tom Latourrette 35	2:10.98 Alan Godfrey 41
55.99 Kipp Dye 35	• 200 M. BACKSTROKE	2:30.25 Edmund Gendreau 36	2:11.61 Jonathan Klein 41
56.23 Alan Voisard 38	2:10.01 WILLIAM SPECHT 93	2:32.21 Gerry Rodrigues 36	2:12.81 Kelly Sterling 42
56.94 Kurt Wienants 35	2:10.34 Jay Yarid 35	2:32.44 Karl Kolb 37	2:13.62 David Schrader 42
56.98 Jason A Crist 36	2:14.75 Mike Frazer 37	2:38.15 Sherwin J Gormly 37	• 400 M. FREESTYLE
57.07 Bob Fish 35	2:20.28 Steve George 39	2:38.98 Breck Ballou 37	4:09.31 HESS YNTEMA 95
57.11 Gerry Rodrigues 35	2:22.94 Will Douglass 39	2:40.37 Ron Collins 36	4:09.84 William Specht 40
• 200 M. FREESTYLE	2:25.28 Miguel E Carrion 35	• 100 M. INDIVIDUAL MEDLEY	4:29.08 Jim Stites 41
1:57.31 L J MEISENHEIMER 94	2:27.16 Ron Marks 39	59.28 CLAY BRITT 98	4:32.65 Larry Wood 44
2:05.93 Gerry Rodrigues 36	2:27.42 Daniel Allen 36	59.28 Clay J Britt 37	4:34.35 Larry Black 40
2:08.27 Jeff Crosson 37	2:28.22 Rob Bedford 36	1:01.85 Brad Hering 37	4:34.55 Jeff Krongaard 44
2:08.72 Chris French 36	2:30.99 Chris French 36	1:02.38 Kurt Wienants 35	4:34.76 Pat Allender 40
2:09.08 David Thomson 39	2:31.11 Mike Dowhy 35	1:04.57 M Shepardson 38	4:37.08 Scott Begin 41
2:09.44 Edmund Gendreau 36	• 50 M. BREASTSTROKE	1:05.01 Steve George 39	4:38.17 Scott Rabalais 40
2:09.80 Dan Knauer 38	28.77 WALLY DICKS 98	1:05.05 Dale E McElhattan 36	4:40.54 Steve Sussex 42
2:11.41 Mike Reid 37	28.77 Wally Dicks 35	1:05.35 Edmund Gendreau 36	4:42.82 Kevin Drake 41
2:11.85 David J Brancamp 37	31.82 David Guthrie 38	1:05.77 Bob Fish 35	• 800 M. FREESTYLE
2:11.86 Karl Kolb 37	32.74 J Kochendorfer 37	1:06.23 Gerry Rodrigues 36	8:49.83 HESS YNTEMA 95
2:12.13 Chris Roth 39	32.84 Dale E McElhattan 36	1:06.49 Will Douglass 39	9:27.72 Rob Copeland 42
• 400 M. FREESTYLE	33.27 Alan Smallwood 39	• 200 M. INDIVIDUAL MEDLEY	9:28.75 Jim Stites 41
4:12.35 BOBBY PATTEN 98	33.57 Steve Grossman 36	2:14.75 MATT CLARK 94	9:31.97 Larry Wood 44
4:12.35 Bobby Patten 35	33.60 Jeffrey Osborn 36	2:17.70 Brad Hering 37	9:34.26 Scott Begin 41
4:30.76 Gerry Rodrigues 36	33.73 Terry Tongate 38	2:23.58 Bob Fish 35	9:40.54 Jeff Krongaard 44
4:31.64 Jeff Crosson 37	33.85 Chris J Laiti 37	2:24.18 Chris Roth 39	9:50.56 Larry Black 40
4:35.06 Dan Knauer 38	34.27 Algernon Keith 38	2:25.08 Steve George 39	9:59.75 Thomas Mack 40
4:37.54 David J Brancamp 37	• 100 M. BREASTSTROKE	2:25.59 Edmund Gendreau 36	9:59.89 Robert Wright 44
4:38.77 Karl Kolb 37	1:03.18 WALLY DICKS 98	2:25.60 Tom Latourrette 35	10:10.95 Kevin Drake 41
4:41.45 Thomas Mack 39	1:03.18 WALLY C Dicks 35	2:27.09 Andrew D Brennan 38	10:13.72 Timothy Kennedy 42
4:41.60 Chris French 36	1:09.67 J Kochendorfer 37	2:27.85 Brian Vaile 36	• 1500 M. FREESTYLE
4:41.65 Brian Casey 35	1:10.04 David Guthrie 38	2:28.07 David Guthrie 38	16:51.71 HESS YNTEMA 95
4:41.82 Jon Smiley 36	1:13.97 Daniel Allen 36	2:28.95 Dan Knauer 38	18:06.70 Rob Copeland 42
• 800 M. FREESTYLE	1:14.36 Andrew D Brennan 38	• 400 M. INDIVIDUAL MEDLEY	18:27.81 Scott Begin 41
8:39.15 BOBBY PATTEN 98	1:14.51 Edmund Gendreau 36	4:45.60 MIKE KECK 95	18:28.83 Jim Stites 41
8:39.15 Bobby Patten 35	1:14.95 Terry Tongate 38	5:09.10 Chris Roth 39	18:34.31 Larry Black 40
9:20.76 Gerry Rodrigues 35	1:15.95 Algernon Keith 38	5:09.35 Tom Latourrette 35	18:35.91 Larry Wood 44
9:28.15 Karl Kolb 37	1:16.34 Jon Smiley 36	5:11.01 Edmund Gendreau 36	18:43.57 Thomas Mack 40

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

18:57.72 David Schrader	42	25.89 William Specht	40	26.21 Lee Mench	46	32.50 Richard S Garrett	45
19:04.76 Timothy Kennedy	42	27.28 Chris Dixon	40	26.33 John Spire	46	• 100 M. BACKSTROKE	
19:15.24 Kevin Drake	41	27.30 Peter Nunan	40	26.38 Robert Puels	47	1:04.72 PETER O'KEEFFE	98
19:29.02 Dave Hale	42	28.32 Frederick Ehmke	43	26.41 Steve Heck	48	1:04.72 Peter O'Keeffe	48
• 50 M. BACKSTROKE		28.41 S Casey Smith	41	26.66 Casey Clafin	45	1:05.25 John Spire	46
27.84 WILLIAM SPECHT	98	28.45 Donald Graham	44	26.75 Larry Krauser	45	1:06.42 Casey Clafin	45
27.84 William Specht	40	28.49 John Piecuch	42	26.92 Oliver Press	46	1:07.53 Mark Pugliese	46
30.37 Jonathan Klein	41	28.85 Bill Adkison	43	• 100 M. FREESTYLE		1:07.55 Richard Garrett	45
30.69 Peter Metzger	43	28.86 Jonathan Klein	41	55.63 LEE MENCH	97	1:07.98 Steve Heck	49
31.31 Greg Dozer	41	28.89 John Craig	44	56.44 John Spire	46	1:08.82 Bill Dow	46
31.72 Donald Graham	44	• 100 M. BUTTERFLY		56.67 Richard Garrett	45	1:09.38 Lou Horwitz	45
31.84 Eric Van Boer	43	56.18 WILLIAM SPECHT	98	56.68 Peter O'Keeffe	48	1:09.54 B Ransom-Nelson	46
31.89 Marty Hendrick	40	56.18 William Specht	40	57.08 Lee Mench	46	1:10.49 David Bright	45
32.10 Warren Fisher	42	1:01.66 Billy Glasstetter	41	58.47 Steve Heck	49	• 200 M. BACKSTROKE	
32.24 Jim B Nielsen	40	1:02.79 John Craig	44	58.81 Casey Clafin	45	2:19.12 PETER O'KEEFFE	98
32.29 Joshua W Scott	42	1:03.85 Jeff Krongaard	44	59.36 Michael Burley	45	2:19.12 Peter O'Keeffe	48
• 100 M. BACKSTROKE		1:04.60 Jim Stites	41	59.74 Mike Sherrill	49	2:24.40 John Spire	46
59.26 WILLIAM SPECHT	98	1:04.77 Steve Sussex	43	1:00.33 Larry Krauser	45	2:28.71 Casey Clafin	45
59.26 William Specht	40	1:05.00 Pat Allender	40	1:00.75 John Needham	45	2:31.51 Mark Pugliese	46
1:02.31 Gary Quinn	40	1:05.20 Scott Begin	41	• 200 M. FREESTYLE		2:31.55 Frank Thompson	46
1:06.12 Jonathan Klein	41	1:05.66 Bill Adkison	43	2:00.13 TIM BRODERICK	96	2:32.25 Lou Horwitz	45
1:06.36 Jeff Krongaard	44	1:05.97 John Feinstein	43	2:03.94 Jim Mc Conica	48	2:34.07 David Bright	45
1:06.89 Peter Metzger	43	• 200 M. BUTTERFLY		2:06.81 Richard Garrett	45	2:35.00 B Ransom-Nelson	46
1:07.19 Philipp Djang	43	2:02.97 WILLIAM SPECHT	98	2:07.37 Lee Mench	46	2:39.96 Chip Glidden	48
1:08.03 Steve Sussex	43	2:02.97 William Specht	40	2:07.66 Mike Sherrill	49	2:40.22 Robert Strauss	46
1:08.80 Alan Godfrey	41	2:21.74 John Craig	44	2:08.18 John Spire	46	• 50 M. BREASTSTROKE	
1:09.03 Thomas Bliss	44	2:22.16 Scott Begin	41	2:09.87 Steve Heck	49	31.83 ROBERT STRAND	95
1:09.48 Thomas Boyd	42	2:22.84 Jeff Krongaard	44	2:12.77 John Needham	45	33.79 Tim Shead	46
• 200 M. BACKSTROKE		2:24.65 Jim Stites	41	2:14.48 Frank Thompson	46	33.99 Robert W Puels	46
2:09.61 WILLIAM SPECHT	98	2:33.97 Robert Wright	44	2:15.55 Casey Clafin	45	34.44 James Goodman	45
2:09.61 William Specht	40	2:34.44 Thomas Bliss	44	2:16.41 Larry Krauser	45	34.54 Allen Stark	49
2:16.96 Gary Quinn	40	2:37.82 Hugh Moore	43	• 400 M. FREESTYLE		34.59 Bob Liotta	47
2:25.36 Jonathan Klein	41	2:38.91 Stephen Peck	42	4:18.44 TIM BRODERICK	96	34.60 Steve Heck	49
2:28.34 Thomas Bliss	44	2:40.28 Thomas Denes	40	4:19.11 Jim Mc Conica	48	34.61 George Schmidt	48
2:28.79 Jeff Krongaard	44	• 100 M. INDIVIDUAL MEDLEY		4:31.22 Mike Sherrill	49	35.32 Mal Jester	49
2:30.90 Alan Godfrey	41	1:01.79 JOHN TUDOR	97	4:40.89 John Needham	45	35.42 Richard S Garrett	45
2:31.05 Marty Hendrick	40	1:04.03 Greg Dozer	41	4:42.87 Lee Mench	46	35.46 Jon Mayfield	45
2:31.97 Thomas Boyd	42	1:04.65 Billy Glasstetter	41	4:46.18 Frank Thompson	46	• 100 M. BREASTSTROKE	
2:35.93 Dave Jackson	42	1:04.97 Chris Dixon	40	4:49.65 Steve Heck	49	1:09.44 ROBERT STRAND	95
2:36.25 Steve Sussex	42	1:06.40 Bill Adkison	43	4:51.34 Robert Strauss	46	1:15.53 Robert W Puels	46
• 50 M. BREASTSTROKE		1:06.52 Kevin Drake	41	4:54.15 Larry Krauser	45	1:16.31 Richard S Garrett	45
30.80 C MILTENBERGER	93	1:06.54 Benn Doyle	40	5:00.22 Chip Glidden	48	1:17.28 James Goodman	45
31.70 Benn Doyle	40	1:06.67 Jose Cunningham	42	5:01.97 David Bright	45	1:17.72 John Derr	49
32.16 Jose Cunningham	42	1:07.77 Steve Sussex	42	• 800 M. FREESTYLE		1:18.01 Robert Liotta	47
32.56 Greg Dozer	41	1:08.60 Mori Paulsen	40	8:56.08 TIM BRODERICK	96	1:18.37 Bob Ruth	45
33.40 John Templin	44	1:08.97 Donald Graham	44	9:13.63 Jim Mc Conica	48	1:18.87 Mal Jester	49
33.52 Chris Dixon	40	• 200 M. INDIVIDUAL MEDLEY		9:27.19 Mike Sherrill	49	1:19.16 Scott Schlieman	47
33.60 Karl Kazmaier	43	2:12.25 JIM SORENSEN	98	9:48.60 Frank Thompson	46	1:19.28 Jon Mayfield	45
34.07 Eric Van Boer	43	2:12.25 Jim Sorensen	40	9:48.71 John Needham	45	1:19.36 Bob Seltzer	47
34.45 David Schrader	42	2:17.68 Greg Dozer	41	9:59.56 Lee Mench	45	• 200 M. BREASTSTROKE	
34.75 David Schmitt	41	2:22.80 Billy Glasstetter	41	10:06.95 Larry Krauser	45	2:34.41 ROBERT STRAND	95
35.02 Kelly Sterling	42	2:23.09 Pat Allender	40	10:20.29 Don C Foreaker	46	2:43.34 Allen Stark	49
• 100 M. BREASTSTROKE		2:24.09 Jeff Krongaard	44	10:24.05 Steve Clark	45	2:47.61 John Derr	49
1:06.50 RON SCHAFFER	97	2:24.43 Steve Sussex	43	10:29.13 Chip Glidden	48	2:53.21 David Levinson	48
1:11.14 Benn Doyle	40	2:27.15 Kevin Drake	41	10:29.80 Tom Andersen	47	2:54.27 Mal Jester	49
1:11.78 Mori Paulsen	40	2:28.44 Bill Adkison	43	• 1500 M. FREESTYLE		2:55.28 Robert W Puels	46
1:12.28 Pat Allender	40	2:28.78 Benn Doyle	40	17:19.87 TIM BRODERICK	96	2:55.67 Scott Schlieman	47
1:13.66 Jose Cunningham	42	2:29.60 Marty Hendrick	40	17:26.71 Jim Mc Conica	48	2:55.76 Jon Mayfield	45
1:14.09 John Templin	44	• 400 M. INDIVIDUAL MEDLEY		17:54.86 Mike Sherrill	49	2:59.27 Steve Hansen	46
1:15.19 Craig Dallam	40	4:43.28 HESS YNTEMA	95	18:41.22 Lee Mench	45	2:59.53 Bob Seltzer	47
1:16.97 Eric Van Boer	43	5:03.48 Greg Dozer	41	18:41.22 John Needham	45	3:00.78 Cliff Jennings	45
1:17.91 Steve Sussex	43	5:03.98 Steve Sussex	43	18:59.36 Frank Thompson	46	• 50 M. BUTTERFLY	
1:18.08 David Schrader	42	5:05.19 Pat Allender	40	19:12.30 Casey Clafin	45	27.08 DAN THOMPSON	93
1:18.11 Thomas Bliss	44	5:09.63 Jeff Krongaard	44	19:17.32 Robert Strauss	46	27.79 Kevin McCormick	46
• 200 M. BREASTSTROKE		5:12.29 Kevin Drake	41	20:18.99 David Bright	45	28.66 Steve Heck	48
2:25.58 RON SCHAFFER	97	5:21.89 Scott Rabalais	40	20:55.68 Frank McIntyre	47	28.72 Brad V Pence	46
2:36.02 Pat Allender	40	5:23.84 Marty Hendrick	40	21:04.53 Edward Strack	46	28.83 John McCall	46
2:37.40 Benn Doyle	40	5:25.87 Bill Adkison	43	• 50 M. BACKSTROKE		28.92 Wayne King	46
2:40.79 Mori Paulsen	40	5:33.29 David Schrader	42	29.33 ROBERT SMITH	89	28.99 Greg Ellison	46
2:42.32 Craig Dallam	40	5:36.14 Benn Doyle	40	29.35 Casey Clafin	45	29.10 Mark D Pugliese	45
2:46.73 John Templin	44			29.58 Peter O'Keeffe	48	29.14 Tim Shead	46
2:50.27 David Schrader	42	MEN 45-49		29.96 John Spire	46	29.25 Casey Clafin	45
2:51.45 Thomas Bliss	44			30.44 Wayne King	46	29.33 Robert Puels	47
2:52.08 Jim Williams	41	• 50 M. FREESTYLE		30.96 Mark Pugliese	46	• 100 M. BUTTERFLY	
2:53.13 Karl Kazmaier	42	25.07 RICHARD ABRAHAMS	91	31.32 Steve Heck	49	1:01.13 TOM PERRIN	96
2:54.64 Allen Orsi	41	25.88 Peter O'Keeffe	48	32.13 Lou Horwitz	45	1:02.94 Kevin McCormick	46
• 50 M. BUTTERFLY		25.90 Richard Garrett	45	32.24 B Ransom-Nelson	46	1:04.80 Brad V Pence	46
25.89 WILLIAM SPECHT	98	26.20 Roger Hawkins	49	32.34 George Schmidt	48	1:05.00 John McCall	46

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

1:05.20 Richard S Garrett 45	1:01.21 Hugh Wilder 51	2:21.88 R Tod Spieker 50	3:16.14 John Zeigler 52
1:05.36 Casey Clafin 45	1:01.41 R Tod Spieker 50	2:23.80 Tim Birnie 53	3:25.09 Peter Klim 51
1:08.00 John Derr 49	1:01.59 Dave Quiggin 54	2:29.47 Hugh Wilder 51	3:27.98 Henry Mecredy 51
1:08.09 David Levinson 48	1:02.09 Donald L Galine 52	2:39.83 John Phillips 50	3:29.37 Ernie Schaefer 52
1:08.14 Rudy Vazmina 47	• 200 M. FREESTYLE	2:40.59 Daniel Rogacki 51	• 100 M. INDIVIDUAL MEDLEY
1:09.77 Jack Salvatore 48	2:06.76 TIM BIRNIE 96	2:46.45 Michael McColly 52	1:04.97 ROBERT STRAND 96
1:10.60 Tom Coffey 47	2:07.01 R Tod Spieker 50	2:48.72 Bob Kolonkowski 50	1:05.74 Robert Strand 52
• 200 M. BUTTERFLY	2:08.33 Tim Birnie 53	2:49.66 Bill Pillmore 50	1:07.58 Daniel Rogacki 50
2:19.73 BOO GRANER GALLAS 96	2:08.76 Fred Schlicher 50	2:53.05 Robert Moynihan 51	1:10.07 Jan Meyer 51
2:32.55 Will Reeves 45	2:10.32 Andrew Mc Pherson 51	2:57.03 Donald L Galine 52	1:10.42 Michael Slenker 52
2:34.68 John McCall 46	2:15.77 Hugh Wilder 51	• 50 M. BREASTSTROKE	1:12.35 Hugh Wilder 51
2:37.12 David Levinson 48	2:16.21 Glenn Woodsum 51	31.24 DON MCKENZIE 97	1:13.17 Jeff Bertuleit 50
2:38.03 Frank McIntyre 47	2:18.52 Jim McCleery 52	31.95 Robert Strand 52	1:14.16 Richard Smith 52
2:40.32 Bob Liotta 47	2:18.82 Larry R Sloan 50	32.24 Don Mc Kenzie 51	1:14.56 Thomas Green 51
2:44.22 John Derr 49	2:19.14 Jan Meyer 51	34.22 Daniel Rogacki 51	1:15.01 Rick Goeden 51
2:46.28 Mark C Walters 45	2:21.46 Donald L Galine 52	34.50 John P Enterline 51	1:15.03 John Phillips 50
2:47.64 Steve Figueroa 46	• 400 M. FREESTYLE	34.78 Gary J Parlapiano 51	• 200 M. INDIVIDUAL MEDLEY
2:48.16 Steven Van Nort 47	4:30.80 R TOD SPIEKER 98	35.05 Jim Dragon 54	2:25.01 ROBERT STRAND 97
2:48.33 Edward Strack 46	4:30.80 R Tod Spieker 50	35.37 Kenneth A Frost 53	2:29.95 R Tod Spieker 50
• 100 M. INDIVIDUAL MEDLEY	4:38.72 Tim Birnie 53	35.39 Wayne Mc Cauley 50	2:35.30 Daniel Rogacki 51
1:04.80 ANDREW MCPHERSON 94	4:39.58 Keith Bell 50	36.43 Dennis J Wilson 50	2:40.62 David Ugarkovich 51
1:05.25 Richard Garrett 45	4:52.92 Jim McCleery 52	36.63 Edward Nessel 53	2:43.10 John Nolan 50
1:06.75 Casey Clafin 45	4:58.04 Hugh Wilder 51	• 100 M. BREASTSTROKE	2:43.92 Richard Smith 52
1:06.89 George Schmidt 48	5:07.50 Michael McColly 52	1:09.96 ROBERT STRAND 96	2:47.13 Rick Goeden 51
1:06.93 Steve Heck 49	5:07.72 Richard Smith 52	1:10.27 Robert Strand 52	2:47.29 Hop Bailey 51
1:08.07 Lee Mench 46	5:11.76 John Nolan 50	1:11.32 Don Mc Kenzie 51	2:48.05 Kenneth A Frost 53
1:09.07 Robert Puels 47	5:13.19 Hop Bailey 51	1:18.58 Gary J Parlapiano 51	2:48.22 Roger F Leonard 50
1:09.32 Peter O'Keefe 48	5:15.96 Richard J Wallace 50	1:19.08 Kenneth A Frost 53	2:48.63 Bill Pillmore 50
1:09.45 Michael Burley 45	• 800 M. FREESTYLE	1:20.77 David Ugarkovich 51	• 400 M. INDIVIDUAL MEDLEY
1:09.56 Bill Dow 46	9:12.81 R TOD SPIEKER 98	1:21.12 Edward Nessel 53	5:16.86 R TOD SPIEKER 98
1:10.14 John Derr 49	9:12.81 R Tod Spieker 50	1:21.47 Wayne Mc Cauley 50	5:16.86 R Tod Spieker 50
• 200 M. INDIVIDUAL MEDLEY	10:24.09 Jim McCleery 52	1:21.81 Dennis J Wilson 50	5:24.61 Andrew Mc Pherson 51
2:22.79 TIM BRODERICK 97	10:32.62 John Nolan 50	1:21.83 Phil Whitten 54	5:41.05 Daniel Rogacki 51
2:24.14 Peter O'Keefe 48	10:35.20 Richard Smith 52	1:21.97 James Redic 52	5:47.90 Bob Kolonkowski 50
2:24.97 Steve Heck 49	10:53.50 Robert Ginns 51	• 200 M. BREASTSTROKE	5:54.14 Richard Smith 52
2:24.97 Richard Garrett 45	10:55.49 Frank McQuiggan 50	2:34.71 ROBERT STRAND 96	5:54.92 Hop Bailey 51
2:29.90 Casey Clafin 45	11:00.22 Randy I Brown 50	2:36.78 Robert Strand 52	5:59.82 Barry Rich 51
2:33.69 Lee Mench 45	11:03.95 Daniel Rogacki 51	2:52.30 Daniel Rogacki 51	6:07.87 Michael Merrell 50
2:33.95 George Schmidt 48	11:10.48 Richard Wallace 50	2:59.07 Steven Peterson 51	6:19.05 David Quiggin 53
2:34.43 Frank Thompson 46	11:10.83 Douglas Selby 53	3:00.18 Wayne Mc Cauley 50	6:24.56 Donald Kroeger 54
2:36.14 Mal Jester 49	• 1500 M. FREESTYLE	3:00.90 Dennis Wilson 50	
2:36.90 Will Reeves 45	17:40.00 R TOD SPIEKER 98	3:01.34 Joseph Keenan 51	MEN 55-59
2:38.19 John Derr 49	17:40.00 R Tod Spieker 50	3:01.47 Michael Merrell 50	• 50 M. FREESTYLE
• 400 M. INDIVIDUAL MEDLEY	18:38.33 Keith Bell 50	3:03.18 John Nolan 50	26.60 DONALD HILL 89
5:09.35 TIM BRODERICK 97	19:40.44 Jim McCleery 52	3:03.22 Michael Slenker 52	26.86 Robert Smith 55
5:25.01 Casey Clafin 45	19:57.42 John Nolan 50	3:03.30 Don Davis 54	27.14 Frans Nelson 56
5:27.78 David Levinson 48	20:36.82 Robert Ginns 51	• 50 M. BUTTERFLY	27.76 Ed Cazalet 56
5:36.66 Frank Thompson 46	20:38.45 Frank McQuiggan 50	27.55 STEVE BOROWSKI 98	27.90 Richard Bassi 57
5:40.22 John Derr 49	20:42.10 Hop Bailey 51	27.55 Steve Borowski 51	28.19 Mike Freshley 57
5:48.39 B Ransom-Nelson 46	20:55.18 Daniel Rogacki 51	28.46 Joel Burns 50	28.33 Douglas Buchan 55
5:49.58 Tom Eiche 48	21:06.84 Douglas Selby 53	28.82 Fred Schlicher 52	28.56 Will Gosnold 57
5:53.57 Bob Seltzer 47	21:12.58 Richard Wallace 50	29.68 John Phillips 50	28.81 James Krueger 59
5:59.40 Jim Fox 45	• 50 M. BACKSTROKE	29.84 Stuart Vance 51	29.64 Kingsley Boyd 55
6:04.00 Edward Strack 46	29.50 HUGH WILDER 97	29.85 Tim A Birnie 52	29.77 R Kramer-Howe 56
6:45.47 Barry Haddan 47	30.64 Hugh Wilder 51	30.15 Michael Slenker 52	• 100 M. FREESTYLE
	31.07 Tim Birnie 53	30.25 Stephen Warner 50	59.49 JACK GEOGHEGAN 97
MEN 50-54	32.34 John Phillips 50	30.30 Paul Monohon 52	1:01.44 Richard Burns 55
• 50 M. FREESTYLE	32.76 Daniel Rogacki 51	30.44 Jeff Bertuleit 50	1:01.99 Mike Freshley 57
25.49 ROGER HAWKINS 98	32.77 R Tod Spieker 50	• 100 M. BUTTERFLY	1:02.68 Richard Bassi 57
25.49 Roger Hawkins 50	33.00 Bob Kolonkowski 50	1:02.54 BOO GRANER GALLAS 97	1:04.50 Will Gosnold 57
26.78 Daniel Rogacki 51	33.49 Paul T Boggs 53	1:03.04 Joel Burns 52	1:04.97 Douglas Buchan 55
26.90 Glenn Woodsum 51	34.27 Michael Slenker 52	1:06.99 Paul Monohon 52	1:05.93 Ilkka Suvanto 55
27.39 Dave Quiggin 54	34.58 Dave Quiggin 54	1:08.10 Joseph Coplan 52	1:07.57 Steven Thrasher 57
27.40 Rick Goeden 51	34.66 Bob Van Fossan 52	1:09.85 Paul T Boggs 53	1:07.65 Paul Chaffee 55
27.60 Michael Slenker 52	• 100 M. BACKSTROKE	1:10.47 Stephen Warner 50	1:07.59 Gordon DeMeester 56
27.61 Jan Meyer 51	1:04.17 HUGH WILDER 97	1:11.97 James Bly 52	1:09.18 Daniel Davis 56
27.61 Hugh Wilder 51	1:06.89 R Tod Spieker 50	1:12.26 Dick Pitman 54	• 200 M. FREESTYLE
27.78 Larry R Sloan 50	1:06.94 Tim A Birnie 52	1:12.71 Daniel Rogacki 50	2:13.20 JACK GEOGHEGAN 97
27.78 John P Enterline 51	1:06.96 Hugh Wilder 51	1:12.97 Barry Rich 51	2:17.07 Edward G Cazalet 56
• 100 M. FREESTYLE	1:10.99 Daniel Rogacki 51	1:13.85 Jed Cronin 50	2:21.67 Mike Freshley 57
56.63 KEEFE LODWIG 96	1:11.93 Robert Strand 52	• 200 M. BUTTERFLY	2:22.24 Robert Poiletman 55
57.69 Andrew Mc Pherson 51	1:12.95 Bob Kolonkowski 50	2:21.58 BOO GRANER GALLAS 97	2:25.18 Richard Bassi 57
59.32 Tim A Birnie 52	1:14.13 Paul T Boggs 53	2:25.66 Fred Schlicher 50	2:25.91 Will Gosnold 57
59.61 Roger Hawkins 50	1:15.80 David Ugarkovich 51	2:44.27 Bob Kolonkowski 50	2:26.64 Jeffrey Galper 56
59.69 Glenn Woodsum 51	1:16.57 John Nolan 50	2:53.56 Dick Pitman 54	2:32.15 Bob Bourassa 56
1:00.65 Larry R Sloan 50	1:16.89 Jim Kurtz 50	3:01.32 Robert Moynihan 51	2:32.30 Daniel Davis 56
1:00.69 Daniel Rogacki 51	• 200 M. BACKSTROKE	3:01.52 Michael Merrell 50	2:33.75 Jim Myerberg 56
	2:21.88 R TOD SPIEKER 98	3:06.96 Joseph Keenan 51	

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

2:34.95 Murray Mc Lachlan 57	36.94 Mike Freshley 57	1:18.58 Peter Michel 55	10:10.78 Drury Gallagher 60NV
• 400 M. FREESTYLE	37.57 Peter Michel 55	• 200 M. INDIVIDUAL MEDLEY	10:53.86 Mel Goldstein 60
4:48.69 JACK GEOGHEGAN 97	37.62 David R Gildea 55	2:36.95 ED CAZALET 98	11:49.49 Jerry Glancy 60
4:54.90 Tegze Haraszti 57	37.75 James Krueger 59	2:36.95 Edward G Cazalet 56	12:07.32 Barry A Fasbender 61
5:15.85 Richard Bassi 57	37.83 Robert Lewis 55	2:37.53 Tegze Haraszti 57	12:21.94 Alexie Benney 62
5:20.51 Will Gosnold 57	38.26 Donald Kroeger 55	2:45.72 Mike Freshley 57	12:31.60 George Mann 60
5:22.01 Steven Thrasher 57	38.78 Jim Perilman 59	2:50.94 Kingsley Boyd 55	12:52.71 Mike Milliman 64
5:25.46 Bob Bourassa 56	• 100 M. BREASTSTROKE	2:51.00 Murray Mc Lachlan 57	13:05.09 James Johnsen 63
5:30.66 Murray Mc Lachlan 57	1:16.32 MANUEL SANGUILY 88	2:54.97 Eric Jensen 56	13:16.62 Dick Chisholm 63
5:38.86 Jim Myerberg 56	1:18.13 Tegze Haraszti 57	2:57.78 Gordon DeMeester 56	13:46.96 Neil Wortmann 63
5:40.12 Mike Laux 56	1:21.31 Mike Freshley 57	2:59.61 Douglas Stern 55	• 1500 M. FREESTYLE
5:40.62 David Vail 55	1:22.33 David R Gildea 55	3:02.44 Mike Laux 56	19:48.44 GRAHAM JOHNSTON 95
5:41.45 Daniel Davis 56	1:22.46 Kingsley Boyd 55	3:04.30 Douglas Bailey 56	22:57.95 Jerry Glancy 60
• 800 M. FREESTYLE	1:24.78 Robert Lewis 55	• 400 M. INDIVIDUAL MEDLEY	23:19.06 Steve Moseley 60
10:12.58 ED CAZALET 98	1:26.90 Jim E Perilman 59	5:30.62 DRURY GALLAGHER 95	23:51.60 George Mann 60
10:12.58 Edward G Cazalet 56	1:27.82 Peter Fredericks 58	6:00.97 Mike Freshley 57	24:06.89 Mike Milliman 64
10:22.50 Tegze Haraszti 57	1:29.84 Mike Laux 56	6:15.92 Ilkka Suvanto 55	24:31.92 A Emory Haworth 62
11:12.49 Mike Freshley 57	1:30.04 Walt Reid 58	6:20.46 Murray Mc Lachlan 57	24:42.89 Landon Kirchner 60
11:15.78 Will Gosnold 57	1:30.25 Douglas Stern 55	6:44.14 Douglas Bailey 56	24:51.59 Mark Malone 60
11:24.89 Steven Thrasher 57	• 200 M. BREASTSTROKE	7:10.35 Jim E Perilman 59	25:01.72 Dick Chisholm 63
11:39.99 Robert Tesch 57	2:49.21 TEGZE HARASZTI 98	7:15.67 Doug Messineo 57	26:39.29 Victor Sirbu 61
11:40.77 Patrick Schlup 58	2:49.21 Tegze Haraszti 57	7:38.41 Edward Morgan 59	27:44.88 Peter Yaw 61
11:45.30 Daniel Davis 56	2:58.40 Mike Freshley 57	7:41.48 Bob Reimers 55	• 50 M. BACKSTROKE
11:45.52 Murray Mc Lachlan 57	3:06.41 Kingsley Boyd 55	7:42.79 Richard Juhala 55	34.05 JACK BEATTIE 94
11:47.00 David R Gildea 55	3:09.40 Peter Michel 55	9:24.35 Jim Clegg 56	34.84 Bill Earley 62
• 1500 M. FREESTYLE	3:10.23 Robert Lewis 55		35.10 David McIntyre 61
19:18.99 JACK GEOGHEGAN 97	3:16.39 Peter Fredericks 58	MEN 60-64	35.15 Jerry Glancy 61
19:44.92 Edward G Cazalet 56	3:17.90 Douglas Stern 55	• 50 M. FREESTYLE	36.36 Jack Beattie 64
21:09.80 Steven Kovary 56	3:19.08 Jim E Perilman 59	27.42 CAV CAVANAUGH 98	36.66 Marshall Greer 61
21:27.96 Mike Freshley 57	3:19.60 Douglas Bailey 56	27.42 Cav Cavanaugh 62	36.98 D Barr Clayson 62
21:29.53 Steven Thrasher 57	3:21.77 Mel Dyck 57	28.46 Bob Bailie 63	36.78 Lowell Johnson 61
21:56.36 Robert Tesch 57	• 50 M. BUTTERFLY	28.98 James Krueger 60	39.02 David Painter 60
22:01.59 Patrick Schlup 58	29.78 RICHARD BASSI 96	29.74 Wally Dobler 64	39.14 Wally Dobler 64
22:13.79 Douglas Stern 55	29.79 Robert Smith 55	29.79 Jerry Katz 60	39.44 Amar Lathi 62
22:50.65 Donald Kroeger 55	29.95 Richard Bassi 57	30.19 Bill Earley 62	• 100 M. BACKSTROKE
22:51.90 Daniel Davis 56	30.55 Richard Burns 55	30.69 Dren Geer 64	1:13.55 JACK BEATTIE 94
23:12.74 William Quayle 57	31.43 Mike Freshley 57	30.92 Pete Magee 60	1:18.75 Jack Beattie 64
• 50 M. BACKSTROKE	31.62 John Wagner 55	30.94 Jack Beattie 64	1:19.74 Jerry Glancy 60
30.94 ROBERT SMITH 98	32.01 R Kramer-Howe 56	30.98 Jerry Glancy 60	1:19.76 Bill Earley 62
30.94 Robert Smith 55	32.12 Jeffry Galper 56	• 100 M. FREESTYLE	1:23.19 Marshall Greer 61
31.74 Richard Burns 55	32.23 James Krueger 59	1:02.08 BOB BAILIE 95	1:23.71 D Barr Clayson 63
33.47 Frans Nelson 56	32.42 Thomas Manfredi 55	1:02.31 Cav Cavanaugh 62	1:25.54 Wally Dobler 64
34.13 Gary Chase 57	32.53 Frans Nelson 56	1:07.11 Dren Geer 64	1:28.33 David Painter 60
34.26 Richard Bassi 57	• 100 M. BUTTERFLY	1:07.22 Bill Earley 62	1:28.97 George Thayer 62
36.35 Gordon DeMeester 56	1:06.29 ROBERT POILETMAN 98	1:07.29 Steve Moseley 60	1:29.12 Dren Geer 64
36.83 Eric Jensen 56	1:06.29 Robert Poiletman 55	1:10.27 Pete Magee 61	1:29.22 Ray Ascherfeld 63
37.10 Mike Freshley 57	1:10.59 Richard Burns 55	1:12.10 David Painter 60	• 200 M. BACKSTROKE
37.64 Larry Raffaelli 55	1:11.75 Jeffry Galper 56	1:12.82 Bill Robertson 61	2:40.75 JACK BEATTIE 94
37.83 David Diehl 56	1:17.52 Thomas Manfredi 55	1:13.09 George Thayer 62	2:46.91 Jerry Glancy 60
• 100 M. BACKSTROKE	1:21.88 John Wagner 55	1:13.93 Charlie Potts 63	3:03.93 D Barr Clayson 62
1:08.34 RICHARD BURNS 98	1:22.69 Larry Raffaelli 55	1:14.20 Ray Ascherfeld 63	3:08.02 Wally Dobler 64
1:08.34 Richard Burns 55	1:22.97 Jim E Perilman 59	• 200 M. FREESTYLE	3:11.96 Mike Milliman 64
1:10.47 Robert Smith 55	1:27.52 Douglas Bailey 56	2:21.31 GRAHAM JOHNSTON 95	3:12.63 Dren Geer 64
1:14.02 Steven Thrasher 57	1:35.12 Leonard Handel 58	2:17.36 Drury Gallagher 60NV	3:17.97 Barry A Fasbender 61
1:18.49 Eric Jensen 56	1:37.55 Joe Bolze 58	2:27.93 Cav Cavanaugh 62	3:19.26 Landon Kirchner 60
1:18.84 Richard Bassi 57	• 200 M. BUTTERFLY	2:32.10 Jerry Glancy 60	3:19.94 Marshall Greer 61
1:19.25 Gordon DeMeester 56	2:31.16 ROBERT POILETMAN 98	2:34.11 Dren Geer 64	3:20.55 Joel Jacobs 62
1:21.06 Larry Raffaelli 55	2:31.16 Robert Poiletman 55	2:35.01 Bill Earley 62	3:21.80 Ray Ascherfeld 63
1:21.57 George Quigley 58	2:45.58 Jeffry Galper 56	2:38.25 Steve Moseley 60	• 50 M. BREASTSTROKE
1:24.78 Erik Lokensgard 55	2:57.77 Mike Laux 56	2:38.86 Wally Dobler 64	35.31 JOHN KORTHEUER 91
1:24.81 Kingsley Boyd 55	3:09.19 Mike Freshley 57	2:40.60 Pete Magee 61	37.34 James Krueger 60
• 200 M. BACKSTROKE	3:13.32 Jim E Perilman 59	2:44.46 Dave Drum 63	38.00 Amar Lathi 62
2:32.73 RICHARD BURNS 98	3:22.41 Thomas Manfredi 55	2:44.55 Bill Robertson 61	38.44 Bob Johnston 61
2:32.73 Richard Burns 55	3:24.17 Erik Lokensgard 55	• 400 M. FREESTYLE	38.70 Dave Daboll 62
2:42.61 Steven Thrasher 57	3:37.94 Donald Kroeger 55	4:56.69 GRAHAM JOHNSTON 95	39.13 Milton Gee 61
2:50.65 Eric Jensen 56	3:41.19 Edward Morgan 58	5:18.80 Mel Goldstein 60	40.49 D Barr Clayson 63
2:53.87 Gordon DeMeester 56	3:42.74 Joseph Bolze 58	5:23.95 Jerry Glancy 60	41.11 Bob Bailie 63
2:57.85 Peter Betzer 56	• 100 M. INDIVIDUAL MEDLEY	5:33.24 Cav Cavanaugh 62	41.20 Joel Jacobs 62
3:00.86 George Quigley 58	1:09.43 ROBERT SMITH 98	5:36.84 Dren Geer 64	41.55 George Thayer 62
3:00.94 Richard Bassi 57	1:09.43 Robert Smith 55	5:51.01 Steve Moseley 60	41.84 Jerry Glancy 60
3:03.72 David Vail 55	1:10.43 Tegze Haraszti 57	5:58.68 Bill Earley 61	• 100 M. BREASTSTROKE
3:03.91 Kingsley Boyd 55	1:11.71 Edward G Cazalet 56	6:06.70 Wally Dobler 64	1:18.77 JOHN KORTHEUER 91
3:10.54 Bill Rupert 56	1:12.96 Mike Freshley 57	6:10.89 Mike Milliman 64	1:18.08 Drury Gallagher 60NV
• 50 M. BREASTSTROKE	1:14.00 Ilkka Suvanto 55	6:17.26 Charlie Potts 63	1:29.95 Jerry Glancy 60
33.77 MANUEL SANGUILY 89	1:15.94 Kingsley Boyd 55	• 800 M. FREESTYLE	1:30.10 Milton Gee 61
35.69 Robert Smith 55	1:16.34 Steven Thrasher 57	10:27.62 GRAHAM JOHNSTON 95	1:30.86 Dave Daboll 62
36.29 Frans Nelson 56	1:17.29 Eric Jensen 56		1:31.30 Dick A Peterson 61
36.55 Kingsley Boyd 55	1:18.48 Thomas Manfredi 55		1:31.84 D Barr Clayson 63

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1:32.08 Joel Jacobs 62	5:39.98 Drury Gallagher 60NV	25:46.89 John Bleck 65	4:07.92 Richard Robecki 68
1:32.26 Landon Kirchner 60	6:15.58 Mel Goldstein 60	25:51.34 Robert Beach 68	50 M. BUTTERFLY
1:34.39 Steve Moseley 60	6:50.96 Bill Earley 62	26:10.72 Charles Kohnken 67	31.65 RON JOHNSON 98
1:34.42 Harry Piper 63	6:52.76 Joel Jacobs 62	26:10.82 Ted Webster 65	31.65 Ronald Johnson 67
200 M. BREASTSTROKE	6:54.33 Barry A Fasbender 61	26:21.07 Paul Kiell 68	33.78 Herb Kern 66
3:00.71 JOHN KORTHEUER 91	6:57.21 Landon Kirchner 60	26:29.28 Tom Mitchell 65	35.78 Bob Best 66
2:53.05 Drury Gallagher 60NV	7:21.27 Dave Drum 63	28:19.54 William Cannon 68	35.78 Chuck Baldwin 68
3:19.32 Jerry Glancy 60	7:23.96 Robert McKinnon 61	50 M. BACKSTROKE	35.97 Harry Hunsicker 68
3:21.16 D Barr Clayton 63	7:29.44 Mike Milliman 64	33.46 YOSHI OYAKAWA 98	36.23 Donald Baker 67
3:21.70 Joel Jacobs 62	7:35.89 Neil Wortmann 63	33.46 Yoshi Oyakawa 65	36.72 Clark Mitchell 66
3:22.49 Landon Kirchner 60		36.37 Clark Mitchell 66	36.76 Parry O'Brien 66
3:22.88 Milton Gee 61	<u>MEN 65-69</u>	39.05 Chuck Baldwin 68	38.08 Norman E Stupfel 65
3:27.42 Steve Moseley 60		39.29 Alan Rapperport 65	38.63 Dick Webber 69
3:27.46 Barry A Fasbender 61	50 M. FREESTYLE	39.41 Ken Kimball 67	100 M. BUTTERFLY
3:39.94 George Bruggeman 63	28.02 RON JOHNSON 98	40.61 Donald Baker 67	1:16.70 RON JOHNSON 98
3:41.34 Peter Riddle 60	28.02 Ronald Johnson 67	41.04 Robert Weddell 67	1:16.70 Ronald Johnson 67
50 M. BUTTERFLY	30.58 Bob Best 66	41.17 C Denny Saunders 65	1:21.75 Harry Hunsicker 68
30.34 BOB BAILIE 95	30.79 Chuck Baldwin 68	42.61 Gordon Gillin 67	1:24.94 Herb Kern 66
30.85 Bob Bailie 63	31.24 Donald Baker 67	43.44 William E Grohe 65	1:32.40 Bob Best 66
32.16 Wally Dobler 64	31.27 John Ries 67	100 M. BACKSTROKE	1:37.99 Parry O'Brien 66
32.18 Cav Cavanaugh 62	31.51 Norman E Stupfel 65	1:14.66 YOSHI OYAKAWA 98	1:40.97 Woody Gair 68
32.39 James Krueger 60	31.68 Dick Webber 69	1:14.66 Yoshi Oyakawa 65	1:44.13 Art Tebbins 69
33.92 Jerry Katz 60	31.72 Ken Kimball 68	1:20.23 Clark Mitchell 66	1:46.20 John Bauman 68
34.99 Bill Earley 61	32.09 Bob Congelliere 69	1:27.51 Alan Rapperport 65	1:46.34 Tom Mitchell 65
36.24 Dren Geer 64	32.26 Nickolas Demas 68	1:27.81 Ken Kimball 68	1:46.87 Arnie Green 66
36.34 Amar Lathi 62	100 M. FREESTYLE	1:31.41 Arnie Green 66	200 M. BUTTERFLY
36.80 Bill Robertson 61	1:04.30 RON JOHNSON 98	1:34.41 Gordon Gillin 67	3:06.43 RON JOHNSON 96
37.23 Barry A Fasbender 61	1:04.30 Ronald Johnson 67	1:37.66 John Bleck 65	3:07.05 Ronald Johnson 67
100 M. BUTTERFLY	1:06.64 Graham M Johnston 66	1:38.81 Harold Desmidt 69	3:22.86 Herb Kern 66
1:13.79 DRURY GALLAGHER 98	1:09.52 John Ries 67	1:39.95 C Denny Saunders 65	3:39.96 Charles Moss 69
1:13.79 Drury Gallagher 60	1:10.33 Donald Baker 67	1:48.37 Parry O'Brien 66	3:52.04 Parry O'Brien 66
1:17.70 Wally Dobler 64	1:11.24 Bill King 65	200 M. BACKSTROKE	3:57.09 David Staley 67
1:18.75 Mel Goldstein 60	1:11.66 Ken Kimball 67	2:52.77 ROGER FRANKS 94	3:58.06 Gordon Gillin 67
1:26.56 Dren Geer 64	1:12.71 Alan Rapperport 65	2:55.31 Graham M Johnston 66	3:58.22 Charles Kohnken 67
1:27.45 Barry A Fasbender 61	1:14.58 Dick Webber 69	3:05.34 Clark Mitchell 66	4:08.23 Bill W Rodgers 65
1:29.36 Dick A Peterson 61	1:14.87 Arnie Green 66	3:06.72 Alan Rapperport 65	4:11.75 H Donald Messer 67
1:30.28 Cav Cavanaugh 62	1:15.09 Bob Best 66	3:22.95 Ken Kimball 68	4:19.09 Alan Maloney 69
1:34.20 Amar Lathi 62	200 M. FREESTYLE	3:27.12 Paul Kiell 68	100 M. INDIVIDUAL MEDLEY
1:35.82 Landon Kirchner 60	2:22.07 GRAHAM JOHNSTON 97	3:31.37 Arnie Green 66	1:15.61 RON JOHNSON 96
1:40.45 Phil Cherry 60	2:38.02 John Ries 66	3:38.18 Harold Desmidt 69	1:22.45 Bob Best 66
200 M. BUTTERFLY	2:40.60 Bill King 65	3:40.18 Gordon Gillin 67	1:23.58 Herb Kern 66
2:49.56 DRURY GALLAGHER 98	2:42.46 Ken Kimball 68	4:00.32 Harold Ferris 67	1:23.93 Donald Baker 67
2:49.56 Drury Gallagher 60	2:47.00 Herb Kern 66	4:01.22 William E Grohe 65	1:26.58 Clarke Mitchell 66
2:55.77 Mel Goldstein 60	2:47.17 Bob Best 66	50 M. BREASTSTROKE	1:30.25 Arnie Green 66
3:21.17 Barry A Fasbender 61	2:47.20 Clark Mitchell 66	36.07 MANUEL SANGUILY 98	1:31.94 Dick Webber 69
3:22.23 Dren Geer 64	2:50.78 Ted Webster 65	36.07 Manuel Sanguily 65	1:32.28 Gordon Gillin 67
3:26.05 Landon Kirchner 60	2:52.33 Arnie Green 66	38.42 Harry Hunsicker 68	1:34.46 Tom Mitchell 65
3:45.26 Amar Lathi 62	2:52.71 Tom Mitchell 65	39.99 Chuck Baldwin 68	1:34.83 Eric Guest 69
3:47.25 Charles Maas 63	2:58.53 Parry O'Brien 66	40.02 Bob Best 66	1:34.93 Norman E Stupfel 65
3:59.15 Robert McKinnon 61	400 M. FREESTYLE	40.54 Norman E Stupfel 65	200 M. INDIVIDUAL MEDLEY
4:30.70 Jay Bowditch 60	5:09.09 GRAHAM JOHNSTON 96	42.34 Frank B Nieman 66	2:51.68 GRAHAM JOHNSTON 97
4:51.71 Norman MacArtney 60	5:45.89 Bill King 65	42.40 Kenneth Flynn 68	3:12.22 Alan Rapperport 65
100 M. INDIVIDUAL MEDLEY	6:11.83 Ken Kimball 68	43.99 Clarke Mitchell 66	3:12.81 Bob Best 66
1:12.84 DRURY GALLAGHER 98	6:22.95 Parry O'Brien 66	44.45 Donald Baker 67	3:13.49 Herb Kern 66
1:09.95 Drury Gallagher 60NV	6:23.70 Tom Mitchell 65	44.85 Alan Maloney 69	3:29.05 Norman E Stupfel 65
1:16.07 Cav Cavanaugh 62	6:26.97 John Bleck 65	100 M. BREASTSTROKE	3:32.18 Woody Gair 68
1:18.92 Wally Dobler 64	6:34.36 Charles Kohnken 67	1:22.34 MANUEL SANGUILY 98	3:33.46 Gordon Gillin 67
1:19.79 Bob Bailie 63	6:35.32 Herbert Nakama 68	1:22.34 Manuel Sanguily 65	3:34.30 Tom Mitchell 65
1:20.60 Bill Earley 62	6:39.84 Paul Kiell 68	1:31.16 Bob Best 66	3:41.51 Charles Kohnken 67
1:22.75 George Thayer 62	6:54.62 Art Scott 65	1:33.88 Norman E Stupfel 65	3:43.85 Edward Rosenhauer 67
1:23.09 Dick A Peterson 61	7:04.31 William Kenney 66	1:34.48 Donald Baker 67	3:45.67 Bob Dorse 66
1:24.59 Bill Robertson 61	800 M. FREESTYLE	1:34.69 John Bleck 65	400 M. INDIVIDUAL MEDLEY
1:24.65 Dren Geer 64	10:35.13 GRAHAM JOHNSTON 96	1:34.85 Frank B Nieman 66	6:04.40 GRAHAM JOHNSTON 96
1:25.29 David Painter 60	12:16.18 Bill King 65	1:38.19 Kenneth Flynn 68	6:43.61 Bob Best 66
200 M. INDIVIDUAL MEDLEY	13:31.64 Tom Mitchell 65	1:41.77 Arnie Green 66	6:51.65 Herb Kern 66
2:40.14 DRURY GALLAGHER 98	13:32.18 Paul Kiell 68	1:42.73 Alan Maloney 69	7:14.75 John Bleck 65
2:40.14 Drury Gallagher 60	13:32.41 Herbert Nakama 68	1:43.85 Woody Gair 68	7:34.28 Gordon Gillin 67
2:49.09 Jody Grant 60	13:32.43 Parry O'Brien 66	200 M. BREASTSTROKE	7:35.11 Charles Kohnken 67
2:55.97 Cav Cavanaugh 62	13:44.07 Robert Beach 68	3:16.65 CHARLES MOSS 93	7:56.13 David Staley 67
3:00.62 Wally Dobler 64	13:49.42 Charles Kohnken 67	3:23.24 Bob Best 66	8:03.16 Alan Maloney 69
3:05.42 Bill Earley 62	13:51.68 Ted Webster 65	3:30.57 John Bleck 65	8:04.11 William Cannon 68
3:10.53 Joel Jacobs 62	14:13.22 David Staley 67	3:31.60 Frank B Nieman 66	8:10.73 Bill Rodgers 65
3:10.78 Barry A Fasbender 61	14:26.27 William Kenney 66	3:46.55 Alan Maloney 69	10:27.13 Keith Burbridge 69
3:18.76 Dave Drum 63	1500 M. FREESTYLE	3:52.47 John Bauman 68	
3:18.77 Landon Kirchner 60	19:53.18 GRAHAM JOHNSTON 96	3:55.65 John Stahl 66	<u>MEN 70-74</u>
3:22.29 Ray Ascherfeld 63	23:09.36 Bill King 65	3:58.12 William Cannon 68	50 M. FREESTYLE
400 M. INDIVIDUAL MEDLEY	23:19.21 Alan Rapperport 65	3:59.28 Dan Gruender 68	30.59 FRANK PIEMME 95
6:02.73 GRAHAM JOHNSTON 93	25:32.54 Herbert Nakama 68	4:03.95 Pieter Cath 67	

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31.44 Frank Piemme	73	49.44 Paul Lowry	71	1:31.50 Joseph Kurtzman	72	1:33.58 James Edwards	75
31.95 Al Craig	71	49.56 Ernie Hulme	70	1:45.64 Lee Arth	73	1:33.69 Richard Avery	75
32.21 William Phillips	70	49.64 George Melick	74	1:48.54 Donald Hubbard	71	1:35.04 Elmer Frost	75
32.60 Duane Draves	71	52.58 James Williamson	74	1:51.92 Milton Brier	70	• 200 M. FREESTYLE	
33.54 Donald Hubbard	71	• 100 M. BACKSTROKE		1:53.74 Art Kelly	72	2:48.67 RAY TAFT	94
34.11 George A Erswell	71	1:21.74 PAUL HUTINGER	94	1:56.44 Harvey Prosser	70	3:10.76 Jurgen Schmidt	75
34.26 Ted Breen	71	1:21.81 Roger Franks	71	2:12.47 Pierce Bray	74	3:11.77 Gilbert Young	76
34.45 William Irwin	70	1:29.52 Duane Draves	72	2:24.09 Warren Foster	72	3:17.90 William Blanchard	75
34.51 Milton Sens	72	1:37.62 Luman Sutton	71	2:26.47 Jae Birch	70	3:20.90 Bob Merrick	78
34.62 Robert MacDonald	70	1:38.21 Frank Campbell	72	2:36.41 Howard Stoker	73	3:21.97 James Edwards	75
• 100 M. FREESTYLE		1:39.55 George A Erswell	71	• 200 M. BUTTERFLY		3:25.68 John Florance	75
1:09.00 FRANK PIEMME	95	1:45.48 Wilford Dolphin	72	3:26.07 JOSEPH KURTZMAN	96	3:26.22 John Woods	75
1:11.48 Frank Piemme	73	1:45.99 Milton Brier	70	3:42.93 Joseph Kurtzman	72	3:30.95 Robert Mosard	77
1:13.35 Duane Draves	71	1:47.11 Isaac Siskind	70	3:49.46 Lee Arth	73	3:33.40 Elmer Frost	75
1:15.10 George A Erswell	71	1:47.83 George Melick	74	4:28.98 Harvey Prosser	70	3:41.77 Bob Acker	77
1:15.63 William Phillips	70	1:48.01 Wayne Shadbolt	74	4:31.61 Art Kelly	72	• 400 M. FREESTYLE	
1:16.09 Robert MacDonald	70	• 200 M. BACKSTROKE		5:01.47 Doug Strong	73	6:02.95 RAY TAFT	95
1:18.61 Robert Blake	73	2:55.73 ROGER FRANKS	98	5:11.85 Richard Evans	73	6:31.21 Jurgen Schmidt	75
1:19.20 Ed Kerswill	72	2:55.73 Roger Franks	71	5:21.34 Jae Birch	70	6:49.78 Raymond F Taft	79
1:19.37 Milton Sens	72	3:23.52 Duane Draves	72	• 100 M. INDIVIDUAL MEDLEY		6:54.99 William Blanchard	75
1:20.41 William Irwin	70	3:39.33 Lee Arth	73	1:20.99 FRANK PIEMME	95	7:04.82 James Edwards	75
1:23.67 Jordan Wolle	70	3:51.25 Elmer Luke	72	1:24.53 Duane Draves	71	7:05.52 Gilbert Young	76
• 200 M. FREESTYLE		4:04.31 Frank Campbell	72	1:24.92 Al Craig	71	7:20.26 Richard T Smith	78
2:34.64 WILLIAM PHILLIPS	98	4:06.89 Paul Lowry	71	1:26.70 Robert MacDonald	70	7:23.33 Bob Merrick	78
2:34.64 William Phillips	70	4:10.50 Norman Garsoe	74	1:28.15 Frank Piemme	73	7:54.49 Bob Acker	77
2:47.30 Earnest Moore	70	4:15.06 John Daily	71	1:30.02 George A Erswell	71	8:00.06 Tom A Mc Call	76
2:48.38 Duane Draves	71	4:27.71 Ernie Hulme	70	1:37.55 Donald Hubbard	71	8:11.54 Elliot Schofield	75
2:51.80 Ed Kerswill	72	4:27.93 Don L Stupfel	70	1:39.98 Lee Arth	73	• 800 M. FREESTYLE	
3:08.17 Harvey Prosser	70	• 50 M. BREASTSTROKE		1:41.78 Richard Labahn	70	12:45.40 RAY TAFT	94
3:09.70 Elmer Luke	71	39.74 JOSEPH KURTZMAN	96	1:45.32 Jarka Burian	71	13:28.21 Jurgen Schmidt	75
3:09.71 Lee Arth	73	41.91 Robert MacDonald	70	1:50.82 Art Kelley	72	14:08.23 Gilbert Young	76
3:10.19 Jordan Wolle	70	42.06 Al Craig	70	• 200 M. INDIVIDUAL MEDLEY		14:29.68 Raymond F Taft	79
3:14.22 Robert Blake	73	43.41 Joseph Kurtzman	72	3:05.96 FRANK PIEMME	95	15:15.15 Bob Merrick	78
3:15.23 Richard Labahn	70	44.98 William Irwin	70	3:19.58 Frank Piemme	73	15:17.51 Richard T Smith	78
• 400 M. FREESTYLE		46.41 August Motmans	71	3:26.14 Robert MacDonald	70	16:48.80 Bud Jackson	78
5:35.49 FRANK PIEMME	95	46.68 George A Erswell	71	3:29.58 Luman Sutton	71	17:08.54 Elliott Schofield	75
5:37.26 William Phillips	70	47.62 J Van Reyersdal	71	3:34.54 Lee Arth	73	17:10.28 Alfredo Utrilla	78
6:07.84 Ed Kerswill	72	47.98 George Melick	74	3:48.42 Isaac Siskind	70	18:41.35 Imre Schmidt	78
6:18.08 Frank Piemme	73	48.47 Luman Sutton	71	4:11.22 Art Kelly	72	18:52.40 Hal Young	77
6:28.98 Lee Arth	73	48.80 Paul Lowry	71	4:26.60 Warren Foster	72	• 1500 M. FREESTYLE	
6:35.66 Harvey Prosser	70	• 100 M. BREASTSTROKE		4:27.79 Pierce Bray	74	24:46.19 ALDO DA ROSA	93
6:43.10 Elmer Luke	71	1:29.48 BARTON GREENBERG	94	4:42.56 Jae Birch	70	25:25.53 Jurgen Schmidt	75
6:45.34 William Irwin	70	1:32.63 Robert MacDonald	70	4:52.05 Al Rogerson	73	28:11.33 Gilbert Young	76
6:51.01 Jordan Wolle	70	1:38.60 Frank Piemme	73	• 400 M. INDIVIDUAL MEDLEY		31:46.03 Bob Acker	77
6:56.25 Robert Blake	73	1:44.80 Joseph Kurtzman	72	6:38.98 FRANK PIEMME	95	32:00.60 Tom A Mc Call	76
6:57.72 Wayne Shadbolt	74	1:45.22 August Motmans	71	6:54.01 Roger Franks	71	32:53.45 Elliot Schofield	75
• 800 M. FREESTYLE		1:49.88 Norman Garsoe	74	7:37.53 Duane Draves	72	33:15.49 Gaetano Pavone	76
11:36.41 FRANK PIEMME	95	1:50.57 Donald Hubbard	71	8:26.47 Isaac Siskind	70	34:13.89 Ed Lambert	77
11:55.21 William Phillips	70	1:52.69 Paul Lowry	71	9:04.55 Doug Strong	73	35:39.87 Hal Young	77
12:38.29 Ed Kerswill	72	1:52.86 Luman Sutton	71	10:04.16 Jae Birch	70	37:36.71 Lester Bell	77
13:33.54 Lee Arth	73	1:53.74 George Melick	74	10:10.73 Al Rogerson	73	44:08.95 Donald May	77
13:55.63 Harvey Prosser	70	2:00.30 Milton Brier	70	11:08.08 Vladimir Ouchakof	74	• 50 M. BACKSTROKE	
13:58.17 Elmer Luke	71	• 200 M. BACKSTROKE		11:09.73 Howard Stoker	73	39.83 RAY TAFT	94
14:53.96 Robert Blake	73	3:20.58 AL CRAIG	98	13:51.49 C Andrew Pretzer	70	45.34 Raymond F Taft	79
15:05.81 Frank Samoya	71	3:20.58 Al Craig	70			45.73 Jurgen Schmidt	75
15:07.59 Doug Strong	73	3:24.72 Robert MacDonald	70	MEN 75-79		45.81 John Woods	75
15:17.83 Jordan Wolle	70	3:33.23 Frank Piemme	73	• 50 M. FREESTYLE		48.21 Raymond Hakomaki	77
15:23.07 John Daily	71	3:47.77 Lee Arth	73	32.78 KELLEY LEMMON	88	48.24 Harry Liber	79
• 1500 M. FREESTYLE		4:07.36 Norman Garsoe	74	35.39 John Florance	75	48.77 Richard Avery	75
22:30.87 WILLIAM PHILLIPS	98	4:16.38 Wilford Dolphin	72	35.43 Andrew Holden	79	48.96 Willis Wynn	75
22:30.87 William Phillips	70	4:16.57 George Melick	74	36.29 Jurgen Schmidt	75	49.08 Bob Merrick	78
25:38.06 Lee Arth	73	4:19.41 Paul Lowry	71	37.87 Richard Avery	75	49.48 Elliot Schofield	75
26:03.50 Harvey Prosser	70	4:33.88 Art Kelley	72	38.13 John Woods	75	49.57 Clarence Webb	75
27:00.02 William Irwin	70	4:47.74 Hans Smit	71	39.61 Robert Mosard	77	• 100 M. BACKSTROKE	
27:18.97 Jordan Wolle	70	• 50 M. BUTTERFLY		39.83 Elmer Frost	75	1:27.41 RAY TAFT	94
29:03.39 Don Korten	71	34.77 FRANK PIEMME	95	39.85 Darrell Werts	76	1:43.51 Bob Merrick	78
29:18.40 John Daily	71	35.17 Frank Piemme	73	40.09 Alfredo Utrilla	78	1:44.17 Raymond F Taft	79
30:08.59 R Briesemeister	73	38.32 Donald Hubbard	71	40.27 Bob Merrick	78	1:44.98 Harry Liber	79
31:07.93 Vester Boone	73	39.32 Joseph Kurtzman	72	• 100 M. FREESTYLE		1:49.22 Raymond Hakomaki	77
32:16.95 Al Rogerson	73	45.02 August Motmans	71	1:13.47 RAY TAFT	95	1:49.70 James Edwards	75
• 50 M. BACKSTROKE		45.23 Jarka Burian	71	1:22.56 Jurgen Schmidt	75	1:56.08 Elliot Schofield	75
35.71 PAUL HUTINGER	94	45.28 Ted Breen	71	1:23.48 John Florance	75	1:56.50 Richard Avery	75
39.54 Duane Draves	72	46.93 Milton Brier	70	1:27.15 Gilbert Young	76	2:03.52 Tom A Mc Call	76
43.74 Robert MacDonald	70	48.08 Art Kelley	72	1:28.93 Bob Merrick	78	2:06.88 Walter Lynch	77
44.94 George A Erswell	71	51.24 John Reese	72	1:30.20 John Woods	75	2:10.37 Ed Lambert	77
46.68 Don L Stupfel	70	53.62 Pierce Bray	74	1:30.89 Robert Mosard	77	• 200 M. BACKSTROKE	
47.70 Wayne Shadbolt	74	• 100 M. BUTTERFLY		1:33.02 William Blanchard	75	3:10.22 RAY TAFT	94
49.06 Elmer Luke	72	1:26.98 JOSEPH KURTZMAN	96			3:44.67 Raymond F Taft	79

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

3:47.28 Harry Liber 79	1:47.77 Max Von Isser 79	17:35.37 John Woods 80	1:51.80 Paul Krup 81
3:56.75 James Edwards 75	1:49.31 Earl Walter 77	18:11.77 William Johnston 80	1:51.87 Walter Pfeiffer 84
3:56.98 Bob Merrick 78	1:52.41 John Woods 75	18:52.57 Des Sessinghaus 83	1:57.88 Al Vande Weghe 81
3:58.86 Raymond Hakomaki 77	1:55.31 Tom A Mc Call 76	20:28.03 Robert E Freeman 82	2:02.02 Richard Guido 81
3:59.10 John Woods 75	1:55.83 Clarence Webb 75	21:36.86 Henry Shostchuk 81	2:02.50 William Johnston 80
4:15.19 Gilbert Young 76	1:56.12 Richard Avery 75	22:57.63 George Hale 82	2:36.62 Frank Tillotson 83
4:20.92 Richard Avery 75	• 200 M. INDIVIDUAL MEDLEY	23:06.76 Frank Tillotson 83	3:04.02 Charles Woolls 83
4:21.02 Walter Lynch 77	3:20.35 RAY TAFT 94	• 1500 M. FREESTYLE	• 200 M. INDIVIDUAL MEDLEY
4:30.40 Elliot Schofield 75	3:44.29 Jurgen Schmidt 75	26:41.69 ALDO DA ROSA 98	3:39.84 ALDO DA ROSA 98
• 50 M. BREASTSTROKE	4:05.96 Richard T Smith 78	26:41.69 Aldo V Da Rosa 80	3:39.84 Aldo V Da Rosa 80
42.85 PAUL KRUP 93	4:13.20 Raymond F Taft 79	33:07.64 John Woods 80	4:21.19 Walter Pfeiffer 84
46.79 Tom Dowell 76	4:18.82 James Worrel 76	40:36.42 Frank Tillotson 83	4:29.99 William Johnston 80
47.33 Bob Merrick 78	4:25.37 Robert Wright 77	42:17.12 Henry Shostchuk 81	4:30.34 Richard Guido 81
47.66 Max Von Isser 79	4:28.62 Clarence Webb 75	• 50 M. BACKSTROKE	• 400 M. INDIVIDUAL MEDLEY
47.81 Abrasha Brainin 75	4:33.42 Bob Acker 77	43.66 WILLIAM ROWE 97	7:53.88 ALDO DA ROSA 98
52.20 Richard Avery 75	4:34.88 Alex McIntosh 75	44.22 Jerry Siefert 80	7:53.88 Aldo V Da Rosa 80
52.59 Walter Lynch 77	5:38.21 Jay Charles 76	44.79 Aldo V Da Rosa 80	9:31.75 Walter Pfeiffer 84
54.12 James Worrel 76	6:48.30 Dan McNeil 75	47.30 John Merrill 81	10:32.20 William Johnston 80
54.56 Tom A Mc Call 76	• 400 M. INDIVIDUAL MEDLEY	49.18 Al Vande Weghe 81	
56.41 Bud Jackson 79	7:08.53 RAY TAFT 94	52.00 John White 82	MEN 85-89
57.63 Hal Young 76	10:14.10 Bob Acker 77	57.75 John Brouk 81	
• 100 M. BREASTSTROKE	10:19.14 Alex McIntosh 75	1:02.70 Frank Tillotson 83	• 50 M. FREESTYLE
1:37.39 ALDO DA ROSA 92	11:54.03 Jay Charles 76	1:14.43 Charles Woolls 83	37.16 WOODROW BOWERSOCK 98
1:42.89 Max Von Isser 79	14:09.81 Dan McNeil 75	1:22.56 Henry Shostchuk 81	37.16 Woodrow Bowersock 85
1:45.65 Bob Merrick 78	15:58.30 T R Johnson 76	1:24.51 George Hale 82	44.06 Gerson Sobel 88
1:47.14 Raymond Hakomaki 77		• 100 M. BACKSTROKE	53.39 Dan Dotterweich 89
1:50.37 Abrasha Brainin 75	MEN 80-84	1:36.41 ALDO DA ROSA 98	1:00.31 Everett Cassell 85
1:51.35 Tom Dowell 76	• 50 M. FREESTYLE	1:36.41 Aldo V Da Rosa 80	1:03.59 Richard Kane 87
1:58.60 James Worrel 76	35.16 WOODROW BOWERSOCK 93	1:48.54 Al Vande Weghe 81	1:12.16 Roy Erlandson 85
1:59.37 Earl Walter 77	35.79 Aldo V Da Rosa 80	1:55.74 John White 82	1:27.99 C J Hamilton 85
2:01.39 Richard Avery 75	35.95 Jerry Siefert 80	1:58.74 Bob Christians 82	1:44.44 Ruben Berg 85
2:01.40 Tom A Mc Call 76	37.98 Jim Eubank 83	2:52.69 Henry Shostchuk 81	• 100 M. FREESTYLE
2:05.98 Bud Jackson 78	38.25 William Johnston 80	3:11.37 George Hale 82	1:29.62 WOODROW BOWERSOCK 98
• 200 M. BREASTSTROKE	39.34 Bob Christians 82	• 200 M. BACKSTROKE	1:29.62 Woody Bowersock 85
3:34.29 ALDO DA ROSA 93	41.42 Barnet Phillips 81	3:33.91 EDWARD SHEA 94	1:42.67 Gerson Sobel 88
3:55.31 Bob Merrick 78	42.61 Al Vande Weghe 81	3:43.98 John Merrill 81	2:29.03 Richard Kane 87
4:13.02 Abrasha Brainin 75	45.06 Des Sessinghaus 83	4:15.72 John White 82	2:36.83 Everett Cassell 85
4:24.16 Richard Avery 75	45.47 Gene Crossett 84	6:19.81 Henry Shostchuk 81	3:24.46 Alfred Gawley 86
4:27.30 Earl Walter 77	46.45 Harry Bartlett 83	• 50 M. BREASTSTROKE	• 200 M. FREESTYLE
4:27.35 Bud Jackson 78	• 100 M. FREESTYLE	46.80 PAUL KRUP 97	3:47.84 WOODROW BOWERSOCK 98
4:28.10 Tom A Mc Call 76	1:20.65 WOODROW BOWERSOCK 93	47.17 Paul Krup 81	3:47.84 Woody Bowersock 85
4:34.40 Tom Dowell 76	1:27.07 Jim Eubank 83	47.53 Aldo V Da Rosa 80	4:10.46 Gerson Sobel 88
4:45.53 Walter Lynch 77	1:28.70 Jerry Siefert 80	1:01.51 John Brouk 81	• 400 M. FREESTYLE
4:55.65 Jack Huber 76	1:37.29 Bob Christians 82	1:05.14 Harry Bartlett 83	7:54.24 GUS LANGNER 88
5:10.70 Alex McIntosh 75	1:37.39 Barnet Phillips 81	1:23.09 Charles Woolls 83	8:53.11 Woodrow Bowersock 85
• 50 M. BUTTERFLY	1:46.08 Gene Crossett 84	1:44.68 Gar Danenhower 84	10:06.60 Gary Weisenthal 85
38.70 RAY TAFT 95	1:46.21 Harry Bartlett 83	2:05.51 Ralph Thayer 82	• 800 M. FREESTYLE
39.93 Andrew Holden 79	1:48.62 Dexter Woodford 84	• 100 M. BREASTSTROKE	16:53.90 GUS LANGNER 88
41.47 Jurgen Schmidt 75	1:50.51 Maurice Stern 82	1:45.09 ALDO DA ROSA 98	18:15.17 Woody Bowersock 85
42.99 Max Von Isser 79	1:50.56 Des Sessinghaus 83	1:45.09 Aldo V Da Rosa 80	20:16.50 Gary Weisenthal 85
46.74 Tom Dowell 76	2:04.61 John Woods 80	1:51.33 Paul Krup 81	20:20.92 Dave Malbrough 85
51.07 Abrasha Brainin 75	• 200 M. FREESTYLE	2:06.08 Walter Pfeiffer 84	• 1500 M. FREESTYLE
53.38 Tom A Mc Call 76	3:10.15 ALDO DA ROSA 98	2:08.21 Murray Eager 82	32:20.20 GUS LANGNER 88
55.49 George Bradbeer 76	3:10.15 Aldo V Da Rosa 80	2:25.45 Harry Bartlett 83	36:00.16 Woody Bowersock 85
55.72 Clarence Webb 75	3:19.26 Jim Eubank 83	2:47.59 Dexter Woodford 84	37:27.39 Gary Weisenthal 85
56.19 Robert Wright 78	3:45.98 Barnet Phillips 81	• 200 M. BREASTSTROKE	37:45.56 Dave Malbrough 85
1:02.45 Darrell Werts 76	3:52.74 Gene Crossett 84	3:58.96 ALDO DA ROSA 98	• 50 M. BACKSTROKE
• 100 M. BUTTERFLY	4:09.62 John Woods 80	3:58.96 Aldo V Da Rosa 80	53.36 DAVE MALBROUGH 98
1:36.80 PAUL KRUP 92	4:13.07 Dexter Woodford 84	4:07.39 Paul Krup 80	53.36 Dave Malbrough 85
1:45.13 Andrew Holden 79	4:15.56 Des Sessinghaus 83	4:46.64 Walter Pfeiffer 84	57.54 Woody Bowersock 85
1:50.43 Jurgen Schmidt 75	4:45.57 Henry Shostchuk 81	• 50 M. BUTTERFLY	1:03.52 Dan Dotterweich 89
2:19.02 Alex McIntosh 75	5:43.35 Frank Tillotson 83	45.55 PAUL KRUP 98	1:13.33 Roy Erlandson 85
2:21.19 Clarence Webb 75	• 400 M. FREESTYLE	45.55 Paul Krup 81	1:24.99 C J Hamilton 85
3:01.48 Jay Charles 76	6:55.19 ALDO DA ROSA 98	48.19 Aldo V Da Rosa 80	1:33.64 Everett Cassell 85
3:38.12 T R Johnson 76	6:55.19 Aldo V Da Rosa 80	51.71 William Johnston 80	1:49.90 Alfred Gawley 86
• 200 M. BUTTERFLY	7:40.49 Jim Eubank 83	52.84 Walter Pfeiffer 84	1:53.30 Ruben Berg 85
3:49.00 PAUL KRUP 92	7:52.07 John Merrill 81	1:03.38 Richard Guido 81	• 100 M. BACKSTROKE
4:33.09 Richard T Smith 78	7:55.72 Jerry Siefert 80	• 100 M. BUTTERFLY	2:00.81 DAVE MALBROUGH 98
5:03.62 Alex McIntosh 75	8:17.20 Dexter Woodford 84	1:50.39 ANTON CERER 97	2:00.81 Dave Malbrough 85
6:24.96 Jay Charles 76	8:21.31 John Woods 80	1:57.25 Paul Krup 80	2:12.23 Woodrow Bowersock 85
7:39.76 T R Johnson 76	8:26.73 Gene Crossett 84	2:05.50 Walter Pfeiffer 84	2:23.64 Dan Dotterweich 89
10:24.48 Dan McNeil 75	9:07.44 Maurice Stern 82	5:17.18 William Johnston 80	2:36.83 Roy Erlandson 85
• 100 M. INDIVIDUAL MEDLEY	10:20.13 Henry Shostchuk 81	• 200 M. BUTTERFLY	3:22.04 Everett Cassell 85
1:27.43 RAY TAFT 94	11:20.89 Frank Tillotson 83	4:00.64 ANTON CERER 97	4:06.52 Ruben Berg 85
1:37.33 Andrew Holden 79	• 800 M. FREESTYLE	4:45.09 Walter Pfeiffer 84	• 200 M. BACKSTROKE
1:38.66 Jurgen Schmidt 75	14:49.24 ROBERT JOHNSTON 97	• 100 M. INDIVIDUAL MEDLEY	4:44.23 DAVE MALBROUGH 98
1:41.21 Bob Merrick 78	15:32.21 Jim Eubank 83	1:38.31 ALDO DA ROSA 98	4:44.23 Dave Malbrough 85
1:47.55 Raymond F Taft 79		1:38.31 Aldo V Da Rosa 80	4:46.45 Woody Bowersock 85

1998 SHORT-COURSE METERS - TOP-TEN INDIVIDUALS

4:55.98 Dan Dotterweich 89	3:39.75 Don Neefe 90
8:28.26 Ruben Berg 85	• 200 M. BACKSTROKE
• 50 M. BREASTSTROKE	5:44.64 JOE KAUFMAN 96
58.39 JIM PENFIELD 93	NO SWIMMERS
1:10.68 Dan Dotterweich 89	• 50 M. BREASTSTROKE
1:12.87 Dave Malbrough 85	1:07.22 JIM PENFIELD 98
1:18.41 Vincent McMahon 85	1:07.22 Jim Penfield 90
1:27.94 C J Hamilton 85	• 100 M. BREASTSTROKE
1:40.77 Roy Erlandson 85	2:45.20 JIM PENFIELD 98
1:50.91 Alfred Gawley 86	2:45.20 Jim Penfield 90
• 100 M. BREASTSTROKE	3:27.69 Gus Langner 94
2:08.69 WALTER PFEIFFER 98	• 200 M. BREASTSTROKE
2:08.69 Walt Pfeiffer 85	6:41.56 GUS LANGNER 94
2:38.48 Dan Dotterweich 89	NO SWIMMERS
2:47.91 Dave Malbrough 85	• 50 M. BUTTERFLY
• 200 M. BREASTSTROKE	1:29.42 JIM PENFIELD 98
4:44.32 WALTER PFEIFFER 98	1:29.42 Jim Penfield 90
4:44.32 Walt Pfeiffer 85	• 100 M. INDIVIDUAL MEDLEY
5:44.56 Dan Dotterweich 89	3:00.53 GUS LANGNER - 94
6:47.02 Dave Malbrough 85	NO SWIMMERS
7:18.44 Everett Cassell 85	
• 50 M. BUTTERFLY	<u>MEN 95-99</u>
52.74 WALTER PFEIFFER 98	• 50 M. FREESTYLE
52.74 Walt Pfeiffer 85	57.57 GUS LANGNER 98
1:16.38 Jim Penfield 89	57.57 Gus Langner 95
1:50.56 C J Hamilton 85	• 100 M. FREESTYLE
2:09.62 Richard Kane 87	2:19.51 GUS LANGNER 98
• 100 M. BUTTERFLY	2:19.51 Gus Langner 95
2:04.50 WALTER PFEIFFER 98	• 200 M. FREESTYLE
2:04.50 Walt Pfeiffer 85	5:13.46 GUS LANGNER 98
• 200 M. BUTTERFLY	5:13.46 Gus Langner 95
4:49.10 WALTER PFEIFFER 98	• 400 M. FREESTYLE
4:49.10 Walt Pfeiffer 85	10:51.93 GUS LANGNER 98
• 100 M. INDIVIDUAL MEDLEY	10:51.93 Gus Langner 95
2:15.66 JIM PENFIELD 93	• 800 M. FREESTYLE
2:49.07 Dave Malbrough 85	22:05.55 GUS LANGNER 98
2:51.75 Jim Penfield 89	22:05.55 Gus Langner 95
3:14.43 C J Hamilton 85	• 1500 M. FREESTYLE
• 200 M. INDIVIDUAL MEDLEY	41:29.87 GUS LANGNER - 98
4:24.58 WALTER PFEIFFER 98	41:29.87 Gus Langner 95
4:24.58 Walt Pfeiffer 85	• 50 M. BACKSTROKE
• 400 M. INDIVIDUAL MEDLEY	1:27.67 GUS LANGNER 98
9:32.65 WALTER PFEIFFER 98	1:27.67 Gus Langner 95
9:32.65 Walt Pfeiffer 85	• 100 M. BACKSTROKE
	3:38.07 GUS LANGNER 98
<u>MEN 90-94</u>	3:38.07 Gus Langner 95
• 50 M. FREESTYLE	• 200 M. BACKSTROKE
50.09 GUS LANGNER 93	8:32.34 GUS LANGNER 98
1:02.59 Jim Penfield 90	8:32.34 Gus Langner 95
1:12.18 Joe Kaufman 93	• 50 M. BREASTSTROKE
1:24.76 Don Neefe 90	1:31.60 GUS LANGNER 98
1:31.92 Harold Hoffman 90	1:31.60 Gus Langner 95
• 100 M. FREESTYLE	• 100 M. BREASTSTROKE
1:58.42 GUS LANGNER 93	3:35.33 GUS LANGNER 98
2:24.79 Gus Langner 94	3:35.33 Gus Langner 95
3:35.73 Don Neefe 90	• 200 M. BREASTSTROKE
3:36.32 Harold Hoffman 90	NO PREVIOUS RECORD
• 200 M. FREESTYLE	7:29.31 Gus Langner 95NV
4:27.70 GUS LANGNER 93	• 100 M. INDIVIDUAL MEDLEY
NO SWIMMERS	3:33.98 GUS LANGNER 98
• 400 M. FREESTYLE	3:33.98 Gus Langner 95
8:50.65 GUS LANGNER 93	
12:28.91 Gus Langner 94	<u>MEN 100-104</u>
• 800 M. FREESTYLE	• 50 M. FREESTYLE
23:32.20 GUS LANGNER 98	2:06.66 TOM LANE 95
23:32.20 Gus Langner 94	NO SWIMMERS
• 1500 M. FREESTYLE	• 100 M. FREESTYLE
44:48.99 GUS LANGNER 96	4:32.29 TOM LANE 95
NO SWIMMERS	NO SWIMMERS
• 50 M. BACKSTROKE	• 50 M. BACKSTROKE
1:07.88 JIM PENFIELD 98	2:02.52 TOM LANE 95
1:07.88 Jim Penfield 90	NO SWIMMERS
1:20.08 Joe Kaufman 93	
1:36.09 Don Neefe 90	
• 100 M. BACKSTROKE	
2:40.88 JOE KAUFMAN 95	
3:24.78 Gus Langner 94	

1998 SHORT-COURSE METERS - TOP-TEN RELAYS

WOMEN'S RELAYS

200 M. FREE REL WOMEN 76+

NEW ENGLAND	1:57.08	98
KARI ANDERSSON		
REBECCA KUPCINSKA		
LESLIE ALLEN		
CORINNE MURPHY		
NEM	1:57.08	
Kari Andersson 26		
Rebec Kupcinkas 24		
Leslie Allen 23		
Corinne Murphy 25		
NEM	2:11.29	
Andrea Scheele 21		
Kendra Garrow 24		
Jennifer Rein 27		
Jodi Cassidy 25		
MICH	2:14.64	
Kelly Bowers 19		
Alison Evans 20		
Allison Delay 19		
Kristie Kowalski 23		

200 M. FREE REL WOMEN 100+

MICHIGAN	1:45.93	96
DYNE BURRELL		
SUSIE DEVLIN		
MARY MUETING		
SHEILA TAORMINA		
GOLD COAST	2:02.11	
Brenda Tomtan 25		
Linda Haus 30		
Karen Schoenhals 30		
Missy Fowlkes 24		
NEM	2:02.30	
Paula Lessard 35		
Bridget Samuel 30		
S Brostrup-Jense 31		
Merideth Cox 23		
NEM	2:02.87	
Katherine Veazey 25		
Emilie Ellis 24		
Elizabeth Boehm 24		
Stephanie Wriede 28		
OJAI-SANTA BARB	2:03.22	
Wenke Hansen 29		
Robin Dotson 20		
Kelly Gleason 23		
Jane Cairns 28		
MINNESOTA	2:09.63	
Tina Neill 32		
Julie Benz 40		
Tazia Brunetti 23		
Joselyn Skovgard 23		
LYTA	2:09.95	
Jessica Gruber 25		
Danielle Brewer 29		
Gillian Spiller 26		
Suzanne Dearworth 26		
NEM	2:10.93	
Anne M D'Agostin 29		
Cath Merrifield 19		
Jennifer Scalise 27		
Laura Swain 35		
COLONIALS 1776	2:12.31	
Kim Kryzan 29		
Dawn Carlson 26		
Regina Gluchowski 23		
Kathy Frazier 38		

200 M. FREE REL WOMEN 120+

SAN DIEGO	1:53.26	96
K PIPES-NEILSEN		
BETH KNIGHT		
MATHILDE BOUWMA		
NANCY NORTH		
SPM	2:02.91	
Judy Tibma 42		
Charlott Petersen 34		
Cathy Shonkwiler 38		
Jo Ann Harrelson 42		
NORTH CAROLINA	2:03.05	
Heather Hageman 28		
Christine Vess 33		
Beverly Amick 44		
Mary Sansbury 45		
ARIZONA MASTERS	2:03.86	
Brenda Creswell 36		
Teri Lhost 33		
Lisa Sartori 33		
Jennifer Jones 32		
PARRIS ISLAND	2:04.95	
Etta Andrews 34		
Donna Sagar 40		
Mary Hayes 29		
Leslie Ochs 34		
GARDEN STATE MA	2:05.73	
A Luallen-Scholz 33		
Ellen Sommerlad 27		
Julie Stewart 36		
Bridget Coll 28		
OREG	2:07.07	
Karen Hakanson 33		
Andrea Milano 31		
Michelle McClure 30		
Laura Tyrrell 30		
ORLM	2:08.68	
Nancy Guinn 44		
Susan Kominowski 39		
Alice Reese 29		
Linda Visser 28		
CRAWFISH AQUATI	2:08.76	
Leslie Stanley 37		
Rachel Gross 23		
Helen Cane 43		
Chantal Harrison 24		
NORTH CAROLINA	2:13.91	
Lee Anne Britt 24		
Lauren Lindbald 25		
Karen Tallmadge 36		
Susan Nestor 36		
TEAM GREENVILLE	2:14.58	
Beth Scheimann 36		
Nicole Columbus 25		
Ronda Reynolds 33		
Susan Ligon 39		
200 M. FREE REL WOMEN 160+		
SAN DIEGO	1:54.94	98
BETH KNIGHT		
CAROLINE KRATTLI		
BARBARA DUNBAR		
K PIPES-NEILSEN		
SAN DIEGO SWIM	1:54.94	
Beth Knight 39		
Caroline Krattli 36		
Barbara Dunbar 49		
K Pipes-Neilsen 36		
LAKESIDE MASTER	2:03.36	
Amy Pope 38		
Pam Martin 41		
Mary Chris Curl 41		
Melinda Schmitt 40		
GOLD	2:07.93	
Meg May 40		
Debbie Cavanaugh 40		
Jean Spinelli 42		
Marcia Barry 50		

OJAI-SANTA BARB	2:17.25	
Michele Bailey 35		
D Fisher Shoemaker 35		
Shannon Sullivan 44		
Kriss Dotson 46		
NEM	2:32.24	
Sally Fellows 43		
Lee Calderone 43		
Sandy Woodcock 42		
Diane Hughes 36		
OREG	2:33.52	
L Hollingsworth 42		
Lissa Parker 46		
Gail Kimberling 42		
Kristen Michelson 39		
PNA	2:33.78	
Lani Doely 41		
Debbie Glassman 44		
Jeanne Ensign 51		
Wendy Hoffman 35		
PARRIS ISLAND	2:35.59	
Vicki Tracy 42		
Leesa Kent 40		
Paula Africa 40		
Marla Moseley 51		
LOWER BUCKS YMC	2:37.33	
J Bond 32		
C Fitch 47		
C Rodgers 46		
Janet Moeller 63		
ARIZONA MASTERS	2:40.02	
E Mc Farlane 36		
Kerry Lutzker 32		
Helen Bayly 61		
Nancy Macbeth 69		
200 M. FREE REL WOMEN 200+		
SAN DIEGO	2:11.52	97
MARILYN FINK		
BARBARA DUNBAR		
LYNNE LUND		
JACKIE MARR		
SPM	2:37.26	
Elaine Bromwich 55		
Sandy Steer 59		
Jayne Lambke 59		
Pam Geiger 45		
COLONIALS 1776	2:46.29	
Joanne Gadd 32		
Patricia Tullman 61		
Janet Moeller 63		
Mary Ann McClain 57		
CONN	2:47.55	
Dorothy Donnelly 76		
Marian Brenner 68		
Ann Louise Onton 56		
Rae Ann Rutkowski 36		
NEM	2:49.65	
Ann Fredette 53		
Barbara Luff 59		
Barbara Boley 73		
Meg Maloney 29		
OJAI-SANTA BARB	2:54.11	
Katherine Watson 50		
Lois Goodman 51		
Carole Borland 55		
Kitty Johnston 56		
HEARTLAND MASTE	2:57.08	
Stephanie Clark 40		
Marilyn Ramey 58		
Judy Tilaro 63		
Nancy Reed 71		
SPCO	2:58.39	
Angie Sinacore 68		
Nancy Mitts 53		
Bunny Cederlund 76		
Lauren Hardman 33		

200 M. FREE REL WOMEN 240+

NEW ENGLAND	2:25.52	94
CLARA WALKER		
BILLIE A BURRILL		
DIANE REED		
JENNIFER LUKER		
SAN DIEGO SWIM	2:48.38	
Betsy Jordan 61		
Lynne Lund 58		
Ann Dallam 68		
Jackie Marr 55		
HEARTLAND S A M	3:20.73	
Marlee Valderhaug 57		
Judy Tilaro 63		
Elfriede Lehto 65		
Bernie Pollette 61		

200 M. FREE REL WOMEN 280+

OJAI S BARBARA	2:52.62	95
RUTH BAAR		
SHIRLEY ERICKSON		
GRACE ALTUS		
GAY COLLINS		
OJAI-SANTA BARB	3:21.66	
Malchia Olshan 67		
Gay Collins 68		
Maggie Mors 72		
Grace Altus 74		
O*H*I*O MASTERS	4:00.87	
Marion Drummond 67		
Carol Ganzel 67		
Sylvia Hill 77		
Joan Hoffmann 69		

COAST MASTERS 4:07.74

Madeleine Miller 88		
Margo Bouer 63		
Maxine Merlino 86		
Maurine Kornfeld 77		
OJAI-SANTA BARB	4:19.16	
Ruth Farnham 68		
Peggy Sanborn 71		
Eleanor Brown 72		
Jennie Taylor 81		

200 M. FREE REL WOMEN 320+

ST PETE	4:09.37	93
MARIAN MCKECHNIE		
WIN KENNEDY		
FRANCES CICHANSKI		
KAY SCHIMPF		

NO RELAYS

200 M. MEDLEY R WOMEN 76+

DAVIS AQUATIC	2:13.89	95
TATE BIRNIE		
WENDY CERRUTI		
CHRISTINE SCHULTZ		
JENNIFER LUNDMARK		
NEM	2:18.68	
Rebec Kupcinkas 24		
Elizabeth Boehm 24		
Leslie Allen 23		
Emilie Ellis 24		
UCLA BRUIN MAST	2:38.81	
K Robertson 22		
Leslie Pollner 23		
Amira Jarmakani 24		
Lura Hess 22		

200 M. MEDLEY R WOMEN 100+

SAN DIEGO	2:05.66	95
VICKY DAVIDSON		

1998 SHORT-COURSE METERS - TOP-TEN RELAYS

MATHILDE BOUWMA	Karen Hakanson	Marilyn Fink	Bette Hoffman
K PIPES-NEILSEN	Andrea Milano	SPM 2:44.33	Sally Newell
D MORTENSEN	Michelle McClure	Pam Geiger	Judy Kelly
NORTH CAROLINA 2:15.27	30	Jo Ann Harrelson	Buz Catlin
Lee Anne Britt	31	Jayne Lambke	
Lauren Lindbald	32	Elaine Bromwich	200 M. MEDLEY R WOMEN 320+
Heather Hageman	33	COLONIALS 1776 3:12.50	SAN MATEO 4:39.75 96
Christine Vess	34	Joanne Gadd	HELEN ROUMASSET
OJAI-SANTA BARB 2:18.37	35	Janet Moeller	HILDA BUEL
Robin Dotson	36	Patricia Tullman	ZADA TAFT
Kelly Gleason	37	Mary Ann McClain	AUDREY ETIENNE
Jane Cairns	38	SPCO 3:18.49	NO RELAYS
Wenke Hansen	39	Bunny Cederlund	400 M. FREE REL WOMEN 76+
MENLO PARK MA 2:26.10	40	Nancy Mitts	
Anna Malsch	41	Lauren Hardman	DAVIS AQUATIC 4:23.57 95
Tracey McLachlan	42	Angie Sinacore	TATE BIRNIE
Deanna Lin	43	HEARTLAND MASTE 3:26.40	WENDY CERRUTI
Sue Forbes	44	Marlee Valderhaug	CHRISTINE SCHULTZ
INLAND MASTERS 2:31.72	45	Bernie Pollett	JENNIFER LUNDMARK
Karen Feld	46	Stephanie Clark	NEM 5:01.93
Virginia Moretto	47	Nancy Reed	Leslie Allen
M Danapilis	48	SAN MATEO MARL 3:33.18	Elizabeth Boehm
Lisa Breed	49	Gloria Stupfel	Emilie Ellis
NEM 2:36.72	50	Dale Finch	Rebec Kupcinskis
Kendra Garrow	51	Lorena Peel	400 M. FREE REL WOMEN 100+
Amanda Telford	52	Audrey Etienne	SAN DIEGO 4:18.04 96
Carol Prescott	53	NEM 3:35.43	D.MORTENSEN
Kristen Oconnor	54	Linda Atkinson	SHIRLEY BOYD
DELAWARE OLD DA 2:50.69	55	Susan Purcell	MATHILDE BOUWMA
Vicki Ashworth	56	Constance Sasser	NANCY NORTH
Carrie Loehr	57	Katharine Heigham	INLAND MASTERS 4:43.20
Helen Bird	58	FMM 3:41.02	Nancy Cook
J Buynitzky	59	Margie Hutinger	Karen Feld
200 M. MEDLEY R WOMEN 120+	60	Doris Prokopi	M Danapilis
SAN DIEGO 2:05.27 94	61	Brenda Ferradji	Virginia Moretto
VICKY DAVIDSON	62	Gladys Olsen	29
MATHILDE BOUWMA	63	200 M. MEDLEY R WOMEN 240+	MENLO PARK MA 4:47.27
KARLYN PIPES	64	SAN DIEGO 2:49.91 98	Anna Malsch
BETH KNIGHT	65	BETSY JORDAN	Tracey McLachlan
SPM 2:12.76	66	JACKIE MARR	Deanna Lin
Judy Tibma	67	LYNNE LUND	Sue Forbes
Maud Orlando	68	ANNE DALLAM	400 M. FREE REL WOMEN 120+
Cathy Shonkwiler	69	SAN DIEGO SWIM 2:49.91	SAN DIEGO 4:11.50 94
Charlott Petersen	70	Betsy Jordan	BETH KNIGHT
SAN DIEGO SWIM 2:13.05	71	Jackie Marr	MATHILDE BOUWMA
K Pipes-Neilsen	72	Lynne Lund	VICKY DAVIDSON
Caroline Krattli	73	Ann Shenck Dallam	KARLYN PIPES
Barbara Dunbar	74	SAN DIEGO SWIM 3:23.00	OJAI-SANTA BARB 4:41.00
Nancy North	75	Diana Silva	Robin Dotson
GOLD 2:16.14	76	Marian Wolle	Kelly Gleason
Debbie Cavanaugh	77	Diane Hirakawa	Carole Borland
Meg May	78	Gini Baker	Kim Nielsen
Tracie Moll	79	OJAI-SANTA BARB 3:48.19	ARIZONA MASTERS 4:53.31
Jean Spinelli	80	Ruth Farnham	Teri Lhost
PARRIS ISLAND 2:20.58	81	Maggie Mors	Kerry Lutzker
Jane Springer	82	Malchia Olshan	Lisa Sartori
Leslie Ochs	83	Gay Collins	Jennifer Jones
Mary Hayes	84	200 M. MEDLEY R WOMEN 280+	MINNESOTA 4:57.68
Etta Andrews	85	SAN DIEGO 3:25.81 96	Julie Benz
GARDEN STATE MA 2:21.15	86	DIANA SILVA	Joselyn Skovgard
A Luallen-Scholz	87	ALICIA COLEMAN	Nicki Phillips
Ellen Sommerlad	88	ANN DALLAM	Tina Neill
Bridget Coll	89	BOBBI TURCOTTE	VENICE BEACH CI 5:00.39
Julie Stewart	90	OJAI-SANTA BARB 4:19.21	C Smits Van Oyen
ORLM 2:22.44	91	Peggy Sanborn	Carole Shigaki
Susan Kominowski	92	Maggie Mors	Lucy Cook
Linda Visser	93	Grace Altus	Maggie Pantoinin
Michele Nappi	94	Jennie Taylor	OJAI-SANTA BARB 5:21.89
Alice Reese	95	O*H*T*O MASTERS 4:34.53	Traci David
ARIZONA MASTERS 2:23.97	96	Mary Culhane	D Fisher Shoemake
Teri Lhost	97	Joan Hoffmann	Michele Bailey
Kerry Lutzker	98	Carol Ganzel	Emmy Klassen
Lisa Sartori	99	Marion Drummond	40
Jennifer Jones	100	NORTH CAROLINA 5:18.80	SOUTH WEST MAST 5:23.11
OREG 2:31.91			
Laura Tyrrell			

1998 SHORT-COURSE METERS - TOP-TEN RELAYS

<p>Marcy Smath 41 Melanie Perry 37 Simone Myara 27 Lucy Bartamian 24 NEM 5:26.62 Sharon Theriot 32 Debbie Levens 45 Kirsten Elstner 34 Merideth Cox 23 NEM 5:26.98 Ann Fredette 53 Kendra Garrow 24 Amanda Telford 29 Kristen Oconnor 26 SAN DIEGO SWIM 5:38.37 Annette Edwards 34 Katie Halliday 29 Stacy Praught 23 Cindy Larue 36 WHITE PLAINS MA 5:39.90 Carolyn Reuter 25 Michele Novak 32 Nancy Surdoval 45 Geneve Hendricks 29</p>	<p>400 M. FREE REL WOMEN 200+ SAN DIEGO 4:54.44 97 MARILYN FINK BARBARA DUNBAR JACKIE MARR BETSY JORDAN OREG 5:32.14 Sandi Rousseau 51 Peggy Whiter 55 Monika Hunscher 50 Jeanne Teisher 47 SAN MATEO MARL 7:00.69 Lorena Peer 33 Dale Finch 48 Audrey Etienne 82 Gloria Stupfel 72 HEARTLAND SWIM 8:11.13 Judy Tilaro 63 Chris Scenna 50 Bernie Pollett 61 Trish Hunter 64 400 M. FREE REL WOMEN 240+ SAN DIEGO 5:41.87 98 JACKIE MARR LYNNE LUND BETSY JORDAN ANNE DALLAM SAN DIEGO SWIM 5:41.87 Jackie Marr 55 Lynne Lund 58 Betsy Jordan 61 Ann Shenck Dallam 68 WIS MASTERS 7:03.41 Ingrid Stine 59 Judy Davis 63 Doris Klitzke 63 Betty Lorenzi 71 HEARTLAND MASTE 7:12.07 Judy Tilaro 63 Nancy Reed 71 Marlee Valderhaug 56 Marilyn Ramey 58 MICHIGAN 8:34.66 Jean Bails 53 Edith Glusac 79 Mary Williams 66 Lois Nochman 73 400 M. FREE REL WOMEN 280+ OJAI/SBARBARA 6:42.68 97 GAY COLLINS GRACE ALTUS MALCHIA OLSHAN RUTH BAAR OJAI-SANTA BARB 9:45.53 Peggy Sanborn 71 Jennie Taylor 81 Eleanor Brown 72 Grace Altus 74 400 M. FREE REL WOMEN 320+ SAN MATEO 9:11.05 96 AUDREY ETIENNE HELEN ROUMASSET HILDA BUEL ZADA TAFT NO RELAYS 400 M. MEDLEY R WOMEN 76+ NEW ENGLAND 4:50.39 98 CORINNE MURPHY ELIZABETH BOEM</p>	<p>KATHERINE VEAZEY LESLIE ALLEN NEM 4:50.39 Corinne Murphy 25 Elizabeth Boehm 24 Katherine Veazey 25 Leslie Allen 23 NEM 5:42.96 Jennifer Rein 27 Kendra Garrow 24 Andrea Scheele 21 Jodi Cassidy 25 400 M. MEDLEY R WOMEN 100+ SAN DIEGO 4:41.95 97 ALISON TERRY K PIPES-NEILSEN NANCY NORTH DIANE GLEASON NEM 5:23.81 Meagan Ivers 23 Laura Swain 35 Anne M D'Agostin 29 Jennifer Scalise 27 DCAC 5:52.71 Sheila Walsh 28 Heather Cassidy 28 Debbie Ice 28 Michelle Wren 32 400 M. MEDLEY R WOMEN 120+ SAN DIEGO 4:44.20 98 K PIPES-NEILSEN CAROLINE KRATTLI BARBARA DUNBAR NANCY NORTH SAN DIEGO SWIM 4:44.20 K Pipes-Neilsen 36 Caroline Krattli 36 Barbara Dunbar 49 Nancy North 30 NEM 5:46.09 Wendy Gulley 33 Laurie Ellis 35 Karen Gleason 38 Jessica Berger 26 WHITE PLAINS MA 5:58.74 Carolyn Reuter 25 Nancy Surdoval 45 Geneve Hendricks 29 Michele Novak 32 NEM 6:25.64 Virginia Seery 34 Sharon Theriot 32 Debbie Levens 45 Anne Childs 36 NEM 6:29.72 Terri Moyer 37 Deborah Edin 36 Connie Hallett 39 Jana Slezak 33 400 M. MEDLEY R WOMEN 160+ SAN DIEGO 4:43.31 98 K PIPES-NEILSEN CAROLINE KRATTLI BARBARA DUNBAR BETH KNIGHT SAN DIEGO SWIM 4:43.31 K Pipes-Neilsen 36 Caroline Krattli 36 Barbara Dunbar 49 Beth Knight 39 DCAC 6:44.84 Suzanne Bolton 52</p>	<p>Ellyn Vail 49 Connie Meck 48 Carol Galbraith 48 NEM 6:50.50 Sandy Woodcock 42 Lee Calderone 43 Sally Fellows 43 Diane Hughes 36 LA MESA MASTERS 7:23.20 Ann Martin 69 Rosemary Hutzley 44 Wendy Alcock 27 Lisa Denis 41 OJAI-SANTA BARB 9:02.38 Jeanne Munesato 48 Donna Lechman 40 Laura Kimmick 34 Barbara Wood 41 400 M. MEDLEY R WOMEN 200+ SAN DIEGO 5:41.12 97 BETSY JORDAN LYNNE LUND BARBARA DUNBAR MARILYN FINK SAN DIEGO SWIM 7:14.33 Lynne Lund 58 Marian Wolle 70 Diane Hirakawa 49 Gini Baker 48 COLONIALS 1776 7:21.36 Patricia Tullman 61 Janet Moeller 63 Patricia Timmins 44 Mary Ann McClain 57 HEARTLAND SWIM 7:24.19 Judy Tilaro 63 Bernie Pollett 61 Vicki Hoffman 36 Chris Scenna 50 NEM 7:49.09 Barbara Boley 73 Barbara Luff 59 Flo Anderson 28 Ann Fredette 53 400 M. MEDLEY R WOMEN 240+ ST LOUIS 6:24.68 92 REGAN KENNER CAROL TAYLOR ARDETH MUELLER JEAN SCHNORBUS OJAI-SANTA BARB 8:24.40 Peggy Sanborn 71 Kitty Johnston 56 Carole Borland 55 Ruth Farnham 68 400 M. MEDLEY R WOMEN 280+ OSB 8:09.12 98 GAY COLLINS MAGGIE MORS MALCHIA OLSHAN GRACE ALTUS OJAI-SANTA BARB 8:09.12 Gay Collins 68 Maggie Mors 72 Malchia Olshan 67 Grace Altus 74 MICHIGAN 10:15.92 Lois Nochman 73 Mary Williams 66 Edith Glusac 79 Martha Forster 81</p>
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1998 SHORT-COURSE METERS - TOP-TEN RELAYS

<p>400 M. MEDLEY R WOMEN 320+</p> <p>WALNUT CREEK 10:12.19 97 FRIEDA SIDORSKI SALLY JOY JEAN DURSTON MARY JANE REEVES</p> <p>NO RELAYS</p> <p>800 M. FREE REL WOMEN 76+</p> <p>DCAC 9:47.25 96 GRETCHEN HURLEY SARAH KING MERILEE ROBINSON ELIZA BARCUS</p> <p>NEM 10:30.76 Emilie Ellis 24 Rebec Kupcinkas 24 Katherine Veazey 25 Leslie Allen 23</p> <p>800 M. FREE REL WOMEN 100+</p> <p>SAN DIEGO 9:16.40 95 VICKY DAVIDSON DIANNE GLEASON MATHILDE BOUWMA NANCY NORTH</p> <p>LAKE LYTAL 10:04.56 Gloria Nemet 34 Gillian Spiller 26 Elizabeth Irving 25 Suzanne Dearworth 26</p> <p>NEM 11:44.15 Carol Prescott 29 Flo Anderson 28 Kristen Oconnor 26 Amanda Telford 29</p> <p>800 M. FREE REL WOMEN 120+</p> <p>SAN DIEGO 9:05.72 96 NANCY NORTH D.MORTENSEN BETH KNIGHT K.PIPES-NEILSEN</p> <p>SAN DIEGO SWIM 9:29.06 K Pipes-Neilsen 36 Caroline Krattli 36 Barbara Dunbar 49 Nancy North 30</p> <p>GRIN 10:11.21 Melissa Kerker 33 Ann Welage 32 Roberta Norwood 39 M Childress 32</p> <p>LAKESIDE MASTER 11:20.87 Pamela Haeberlin 35 Caroline Donnelly 36 Debbie Utz 45 Lucy Shearn 30</p> <p>WHITE PLAINS MA 12:15.47 Geneve Hendricks 29 Michele Novak 32 Carolyn Reuter 25 Nancy Surdoval 45</p> <p>NEM 12:34.57 Connie Hallett 39 Deborah Edin 36 Jana Slezak 33 Terri Moyer 37</p> <p>800 M. FREE REL WOMEN 160+</p> <p>SAN DIEGO 9:27.59 98 BETH KNIGHT CAROLINE KRATTLI</p>	<p>BARBARA DUNBAR K PIPES-NEILSEN</p> <p>SAN DIEGO SWIM 9:27.59 Beth Knight 39 Caroline Krattli 36 Barbara Dunbar 49 K Pipes-Neilsen 36</p> <p>LAKESIDE MASTER 9:32.03 Amy Pope 38 Mary Chris Curl 41 Pam Martin 41 Melinda Schmitt 40</p> <p>GRIN 11:05.45 Nancy Hormann 39 S Childress-Hoek 36 Joan Diercks 50 Ann Schnieders 38</p> <p>NEM 12:25.17 Linda Carstens 46 Debbie Levens 45 Virginia Seery 34 Anne Childs 36</p> <p>NEM 12:32.17 Sally Fellows 43 Lee Calderone 43 Sandy Woodcock 42 Diane Hughes 36</p> <p>LA MESA MASTERS 13:21.31 Kelly L Shipley 31 Ann Martin 69 Lisa Denis 41 Wendy Alcock 27</p> <p>800 M. FREE REL WOMEN 200+</p> <p>SAN DIEGO 10:35.61 97 MARILYN FINK BARBARA DUNBAR JACKIE MARR BETSY JORDAN</p> <p>COLONIALS 1776 14:05.92 Patricia Timmins 44 Patricia Tullman 61 Janet Moeller 63 Mary Ann McClain 57</p> <p>OJAI-SANTA BARB 14:36.31 Kitty Johnston 56 Kriss Dotson 46 Lois Goodman 51 Carole Borland 55</p> <p>HEARTLAND SWIM 18:39.49 Judy Tilaro 63 Betty Courtney 45 Bernie Pollett 61 Trish Hunter 64</p> <p>MICHIGAN 19:12.22 Mary Williams 65 Kathy Beckley 50 Genevieve Moyer 48 Lois Nochman 73</p> <p>800 M. FREE REL WOMEN 240+</p> <p>SAN DIEGO 12:40.93 98 ANNE DALLAM LYNNE LUND BETSY JORDAN JACKIE MARR</p> <p>SAN DIEGO SWIM 12:40.93 Ann Shenck Dallam 68 Lynne Lund 58 Betsy Jordan 61 Jackie Marr 55</p> <p>HEARTLAND S A M 16:51.55 Marlee Valderhaug 57 Judy Tilaro 63 Elfriede Lehto 65 Bernie Pollette 61</p>	<p>800 M. FREE REL WOMEN 280+</p> <p>ST. LOUIS 15:49.09 91 CAROL TAYLOR DORIS PETERS EDITH HENDRY ANNALOU CARRIER</p> <p>MICH 20:31.06 Martha Forster 81 Lois Nochman 73 Edith Glusac 79 Mary Williams 66</p> <p>800 M. FREE REL WOMEN 320+</p> <p>SAN MATEO 20:48.75 94 AUDREY ETIENNE HELEN ROUMASSET EDIE GOLDMAN HILDA BUEL</p> <p>NO RELAYS</p> <p style="text-align: center;">MEN'S RELAYS</p> <p>200 M. FREE REL MEN 76+</p> <p>DAVIS AQUATIC 1:39.63 95 JOHN KEPPELER ANDY SLAKOFF BRAD WINSOR MATT GRAHN</p> <p>UCLA BRUIN MAST 1:51.30 Marc Lewis 20 Steve Kim 22 Patrick Wen 26 David Hovland 30</p> <p>MICH 1:53.40 Clint Densham 22 Jay Schultz 23 Shawn Kucera 25 Dave Perry 19</p> <p>SDSM 2:00.56 Aldo Portillo 22 B Terczynski 24 Brett Young 20 Eric Yen 25</p> <p>200 M. FREE REL MEN 100+</p> <p>EL SUGUNDO 1:35.70 97 FRANK WATTLES DEREK ROBINSON MARCEL RINZLER BERT BERGEN</p> <p>NEM 1:40.95 Rob Berry 30 Charlie Weisman 23 Stuart Cromarty 34 Mark Goldman 27</p> <p>GOST 1:57.10 John Redkey 29 Ken Griffiths 29 Michael Volpatt 27 Michael Taylor 23</p> <p>DCAC 2:02.70 Ryan Lebro 24 A Fernando 24 D Mensinger 33 Craig Badinger 24</p> <p>DCAC 2:05.27 Steven Wunder 34 Steve Dickens 32 Glenn Mlaker 31 Brian Gluckman 22</p> <p>DCAC 2:06.35 Thomas Buerger 28</p>	<p>Ron Kaplan 27 Kei Koizumi 29 Greg Campbell 30</p> <p>200 M. FREE REL MEN 120+</p> <p>BAYLOR/LONESTAR 1:37.89 92 RICHARD HESS DOUG MOYSE MOOK RHODENBAUGH BOBBY PATTEN</p> <p>DCAC 1:38.78 Neill Williams 30 Jose Cunningham 42 Marcus Chung 22 Corey Carlisle 27</p> <p>ART 1:41.17 John O'Keefe 31 Sean Fitzgerald 34 Jeff Bakehorn 34 Alex Bailey 37</p> <p>LAS VEGAS MASTE 1:44.11 Kenneth Fust 28 Roland Sparling 34 Gary Thompson 33 Todd Dreitzler 28</p> <p>NEM 1:45.01 Kipp Dye 35 Michael Kula 25 Robert Leonard 29 Philip Cuva 31</p> <p>ORLM 1:45.30 Andrew Farrell 27 M Shepardson 38 L Meisenheimer 41 Tom Fusco 41</p> <p>GOLD COAST 1:45.44 Craig Crawford 28 Edward Ames 29 Terry Lage 30 Kurt Weinants 35</p> <p>ANCIENT MARINER 1:46.24 Michael Fell 36 John Feinstein 43 Doug Chestnut 33 Chris Laiti 37</p> <p>OREG 1:46.50 Matthew Roth 31 Steve George 39 Peter Metzger 43 Chris Roth 39</p> <p>SAN DIEGO SWIM 1:46.96 Alan Voisard 38 Eric Bonney 29 Chris Dixon 40 James Ney 39</p> <p>UCLA BRUIN MAST 1:47.14 Michael Collins 32 Tom LaTourrette 35 Mark Steele 31 Randall Eickhoff 33</p> <p>200 M. FREE REL MEN 160+</p> <p>COLONIALS 1776 1:40.74 96 CHARLES NORELLI THOMAS MEADE MICHAEL SLENKER GREGORY OXLEY</p> <p>UCLA BRUIN MAST 1:44.93 I Maxtone-Graham 39 Gerry Rodrigues 36 Mark Snyder 39 Roger Hawkins 50</p> <p>O*H*I*O MASTERS 1:47.62 Jack Groselle 42 Tom Hieber 40 Karl Kazmaier 42</p>
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1998 SHORT-COURSE METERS - TOP-TEN RELAYS

<p>Lou Horwitz 44 PNA 1:50.23 Steve Sussex 43 Michael Schaeffer 41 Kelly Sterling 42 David Thompson 39 GOLD 1:52.13 Mike Mere 40 Kelly King 40 Marty Hendrick 40 Barry Gollop 43 DCAC 1:53.18 Kevin Majoros 38 Jack Markey 45 Tony MacDonald 45 G Heuchling 38 NEM 1:53.36 Douglas Scott 39 Darrell Martin 51 Lawrence Delc 32 Thomas Garrity 40 NEM 1:54.37 David Bright 45 Thomas Mack 40 Warren Wise 43 Edmund Gendreau 36 LAKESIDE MASTER 1:54.52 Kevin Scarborough 43 Sam Blythe 39 Russell Williams 39 Jimbo Martin 40 OJAI-SANTA BARB 1:55.27 Tom Miller 37 John David 40 R Lobdell 43 David Foote 48 C1776 1:55.35 Robert Hartford 41 Allen Orsi 41 George Horan 43 John Roman 42 200 M. FREE REL MEN 200+ SO CAL AQUATIC 1:47.41 94 FRED HUBBELL FRANK PIEMME FRANS NELSON PETER O'KEEFFE GOLD 1:47.94 John Spire 46 Cav Cavanaugh 62 Chuck Reller 47 George Schmidt 48 GARDEN STATE MA 1:50.99 Richard Alexander 54 Edward Nessel 53 Brad Glenn 49 Jim Dragon 54 SAN DIEGO SWIM 1:53.67 Mike Freshley 57 Jerry O'Mara 51 Thomas Green 51 Lee Mench 45 NEM 1:56.70 Bob Seltzer 47 Al Craig 71 Jonath Wilwerding 44 Peter Worland 40 ARIZONA MASTERS 1:59.19 Charles Sparr 51 Hop Bailey 51 Bob Liotta 47 James Bly 52 OJAI-SANTA BARB 2:06.07 Scott Johnson 41 Tom Mitchell 65 Peter Lawrence 52</p>	<p>Rick Goeden 51 TEAM GREENVILLE 2:09.88 Terry Palma 49 Bill Robertson 61 Jeff Stone 47 Wilfred Lyon 54 PARRIS ISLAND 2:13.04 Denny Young 50 John Fontana 57 Scott Graber 53 David Painter 60 MICH 2:15.96 Donald Kroeger 54 Thomas Moyer 50 John Ries 65 Ralph Davis 50 LOWER BUCKS YMC 2:29.64 Clarence Webb 75 James Burke 32 Neal Conrad 49 Sam Hossain 56 200 M. FREE REL MEN 240+ GOLD COAST 1:56.96 97 CAV CAVANAUGH WILLIAM DOLAN DAVID MCINTYRE JOEL BURNS GOLD COAST 1:57.70 Cav Cavanaugh 63 Patrick Howe 52 Herb Kern 66 David McIntyre 61 SAN DIEGO SWIM 2:01.06 Bill Earley 62 Ken Kimball 68 Donald Baker 67 Mike Freshley 57 INLAND MASTERS 2:20.53 George Bruggeman 63 Herbert Nakama 68 Charlie Potts 63 Bob Best 66 GOLD COAST 2:35.62 George Busse 66 L Silverstein 63 William Dolan 69 Joaquin Silverio 72 SAN DIEGO SWIM 2:35.84 Eric Neilsen 32 Peter Riddle 60 Jordan Wolle 70 Edgar Lassins 78 OJAI-SANTA BARB 2:55.86 John Johnston 55 Robert May 64 Richard Weirick 70 Boyd Ford 73 PARRIS ISLAND 3:20.23 James Williamson 74 Philip Neubig 69 Paul Cooper 60 David McCray 58 200 M. FREE REL MEN 280+ OREGON 2:13.84 90 EARL WALTER FORBES MACK GERALD HUESTIS ANDREW HOLDEN SAN DIEGO SWIM 2:14.19 Bill Earley 62 Donald Baker 67 William Phillips 70 Jim Eubank 83 OJAI-SANTA BARB 2:25.07</p>	<p>Woody Gair 68 Jack Spracklin 68 Frank Piemme 73 Jurgen Schmidt 75 ST. LOUIS AREA 2:34.25 Robert Blake 73 Edward Rosenhauer 67 William Cannon 68 Donald Sery 74 SPM 2:35.44 Richard Avery 75 Abrasha Brainin 75 Charles Kohnken 67 Harold Ferris 67 SPCO 2:35.53 Robert Sigersmith 74 Al Rogerson 73 Richard Robecki 68 Phil Lindsley 65 COAST MASTERS 2:43.29 Emile Achee 71 Bob Merrick 78 Woodrow Bowersock 85 Donald Mc Intosh 62 O*H*I*O MASTERS 2:54.34 John Daily 69 Pierce Bray 73 Dexter Woodford 83 Paul Krup 79 FMM 2:58.57 Frank Tillotson 83 Robert MacDonald 70 Joseph Kurtzman 72 Alan Maloney 69 MICH 3:11.26 Jae Birch 70 Don May 77 John Reese 72 Elmer Frost 75 OJAI-SANTA BARB 3:18.06 Boyd Ford 73 John Melville 78 Vito Portanova 78 Clark Webster 83 200 M. FREE REL MEN 320+ COAST 2:49.99 97 LOUIS GIBERSON WOODY BOWERSOCK BOB CHRISTIANS WALTER PFEIFFER GOLD COAST 3:21.45 Des Sessinghaus 83 Richard Kane 87 Agustin DelaVega 73 Alfredo Utrilla 78 200 M. MEDLEY R MEN 76+ S CAL AQUATIC 1:54.30 97 OSIRIS BRISENO EALING JAHN SEAN LEMM KENTARO TAKAHASHI NO RELAYS 200 M. MEDLEY R MEN 100+ EL SEGUNDO 1:45.73 97 DEREK ROBINSON DAVE HUSTON MARCEL RINZLER BERT BERGEN NEM 1:56.93 Rob Berry 30 Jonathan Banville 28 Mark Goldman 27</p>	<p>Charlie Weisman 23 DELAWARE OLD DA 2:09.63 Chris Colburn 26 Craig Dewing 28 Scott Wasserman 28 Rohan Bird 28 200 M. MEDLEY R MEN 120+ BAYLOR/L STAR 1:45.01 94 JAY YARID GREG RHODENBAUGH BOBBY PATTEN MOOK RHODENBAUGH ANCIENT MARINER 1:58.96 Doug Chestnut 33 Chris Laiti 37 John Feinstein 43 Michael Fell 36 UCLA BRUIN MAST 2:00.70 Steve Kim 22 Michael Collins 32 Gerry Rodrigues 36 David Hovland 30 ORLM 2:01.03 Andrew Farrell 27 Steve Boney 31 Frederick Ehmke 43 John Keen 34 LAS VEGAS MASTE 2:01.09 Kenneth Fust 28 Gary Thompson 33 Todd Dreitzler 28 Roland Sparling 34 SWIM 2:01.55 Casey Claflin 45 Chris Connor 23 Kevin McCormack 46 Larry Black 40 OJAI-SANTA BARB 2:04.70 John David 40 Stuart Sato 41 David Schrader 42 Mike Shaffer 33 NEM 2:05.74 Henry Baker 31 Daniel Truesdale 35 Ted Mack 30 Stuart Cromarty 34 SAN DIEGO SWIM 2:06.21 Eric Bonney 29 Eric Neilsen 32 Alan Voisard 38 James Ney 39 HLJ 2:06.41 Walter Steele 34 Bill Pillmore 50 Joe Naber 27 Graham Ginn 26 VENICE BEACH CI 2:07.59 Dave Kastigar 34 Mark Toyooka 32 Chris Cosner 37 Brian Merrigan 38 200 M. MEDLEY R MEN 160+ MINNESOTA 1:52.42 98 SCOTT TRIPPS J KOCHENDORFER RAY ELLIS NATE LEIGH MINNESOTA 1:52.42 Scott Tripps 28 J Kochendorfer 37 Ray Ellis 55 Nate Leigh 42 O*H*I*O MASTERS 2:02.72</p>
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1998 SHORT-COURSE METERS - TOP-TEN RELAYS

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Patrick Howe	52																																													
Ray Welsh	59																																													
Marvin Klienman	71																																													
TROJAN MASTERS	3:49.17																																													
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Eric Schafer	20																																													
Jeremy Zecher	19																																													
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1998 SHORT-COURSE METERS - TOP-TEN RELAYS

John David 40	SAN DIEGO 4:31.43 95	DCAC 4:02.26 96	ART 4:37.60
David Schrader 42	MIKE FRESHLEY	STEVE SMITH	Eric Czander 32
NEM 4:31.41	DONALD BAKER	MATT KINNEY	Clinton Fisher 24
Edmund Gendreau 36	KENNETH KIMBALL	NEILL WILLIAMS	John O'Keefe 31
Warren Wise 43	BILL EARLEY	COREY CARLISLE	Brian Dohner 36
Marc Scheele 52	SAN DIEGO SWIM 5:18.07	DCAC 4:40.14	NEM 4:46.48
Thomas Mack 40	Mike Freshley 57	David McNear 30	Henry Baker 31
NEM 4:44.56	Steve Moseley 60	Craig Badinger 24	Jonathan Banville 28
Darrell Martin 51	Bill Earley 62	Marc Le Goff 34	Brian Casey 35
Lawrence Delc 32	Donald Baker 67	Mike Flynn 28	Mark Goldman 27
Douglas Scott 39	SAN MATEO MARL 5:24.14	SDSM 4:44.67	WHITE PLAINS MA 5:01.17
Thomas Garrity 40	Mike Milliman 64	John Farkas 26	Chris Beliveau 39
OJAI-SANTA BARB 4:51.36	Don Stupfel 70	T Brouillette 33	Daniel Levy 32
John Selzer 43	Ray Taft 79	Michael Given 34	Peter Dwyer 41
David Williams 41	James Taschek 27	Eric Yen 25	Andrew Spangler 28
Stuart Sato 41	OJAI-SANTA BARB 5:51.25	NEM 4:45.24	400 M. MEDLEY R MEN 160+
Bryan Tally 40	Robert Smith 55	Mark Seasholes 31	S CAL AQUATIC 4:15.60 97
MENLO PARK MA 5:02.21	Robert May 64	Daniel Truesdale 35	MIKE FRAZER
Rick Peterson 51	John Bleck 65	William Riddell 30	BRIAN HAYES
Murray McLachlan 57	Tom Mitchell 65	Charlie Weisman 23	CLAY EVANS
Roger Noyes 48	OJAI-SANTA BARB 5:59.71	GOST 5:14.54	STUART VANCE
Mike Child 43	Boyd Ford 73	Brad Blecha 32	NEM 4:35.56
O'H*I*O MASTERS 5:09.73	Richard Weirick 70	Miguel Perez 32	Rob Berry 30
Dan Mansuy 54	Jack Spracklin 68	Michael Taylor 23	Bob Seltzer 47
David Carbajal 29	Woody Gair 68	Ken Griffiths 29	Fred Schlicher 50
Bill Bretz 43	400 M. FREE REL MEN 280+	DCAC 5:26.60	Stuart Cromarty 34
Gordon DeMeester 56	SAN DIEGO 5:04.75 98	Alan Cariaso 32	O'H*I*O MASTERS 4:36.99
SOUTH WEST MAST 5:09.75	BILL EARLEY	Ron Kaplan 27	Lou Horwitz 44
David Strybel 43	DON BAKER	Kei Koizumi 29	Karl Kazmaier 42
Robert Perry 38	WILLIAM PHILLIPS	Thomas Buerger 28	Tom Hieber 40
Craig Boone 47	JIM EUBANK	SDSM 5:44.29	Jack Groselle 42
Barton Phillips 54	SAN DIEGO SWIM 5:04.75	Aldo Portillo 22	NEM 4:45.46
400 M. FREE REL MEN 200+	Bill Earley 62	Brett Young 20	David Bright 45
OLYMPIC CLUB 4:00.54 96	Donald Baker 67	Alan Palmer 39	Warren Wise 43
TIM BIRNIE	William Phillips 70	Tim Healey 30	Edmund Gendreau 36
ROBERT STRAND	Jim Eubank 83	400 M. MEDLEY R MEN 120+	Thomas Mack 40
RICHARD BASSI	ST. LOUIS AREA 6:27.43	RUBA 4:06.10 97	DCAC 4:47.25
EDWARD CAZALET	William Cannon 68	RICHARD TOOTHILL	G Heuchling 38
SAN DIEGO SWIM 4:15.20	Robert Blake 73	BENN DOYLE	Peter Beard 38
Mike Freshley 57	Robert Neubert 68	CURTIS SAWIN	Doug Wilson 47
Thomas Green 51	Donald Sery 74	SCOTT YEOMANS	Kevin Majoros 38
Jerry O'Mara 51	COAST MASTERS 7:00.17	OREG 4:14.08	NEM 4:49.64
Lee Mench 45	Bob Merrick 78	Matthew Roth 31	Johan Kerkhove 46
GARDEN STATE MA 4:21.29	Woodrow Bowersock 85	Pat Allender 40	Cliff Jennings 45
Jim Dragon 54	Walt Pfeiffer 85	Bill Zolna 29	Daniel Rogacki 51
Jack Zakim 53	Donald Mc Intosh 62	Steve George 39	Richard Landry 34
Edward Nessel 53	400 M. FREE REL MEN 320+	DCAC 4:21.27	GOLD 4:50.87
Paul Cox 47	COAST MASTERS 6:34.05 95	Scott Brintzer 35	Mike Mere 40
GOLD WAVE MASTE 4:23.08	BRION WINSHIP	Jose Cunningham 42	Kelly King 40
Jan Meyer 51	ROBERT CHRISTIANS	Neill Williams 30	Marty Hendrick 40
Sean James 40	WALTER PFEIFFER	Stan Young 33	Barry Gollop 43
Richard Lawrence 52	WOODROW BOWERSOCK	C1776 4:22.55	COLONIALS 1776 4:54.15
Burton Armstrong 58	NO RELAYS	Robert Hartford 41	Warren Fisher 42
ARIZONA MASTERS 4:25.27	400 M. MEDLEY R MEN 76+	Allen Orsi 41	Steve Kelly 40
Jeff Krongaard 44	DCAC 4:14.83 98	Jim Jordan 32	Daniel Allen 36
Robert Lewis 55	MARCUS CHUNG	Bjorn Zikarsky 31	Mark Lefevre 44
James Bly 52	MATT KINNEY	GOST 4:26.14	TDAC 5:02.49
Hop Bailey 51	COREY CARLISLE	Erik Scollon 26	Brad Levinson 42
MICHIGAN 4:57.90	HUGH MCGOWAN	John Redkey 29	Rex Toltschin 46
Donald Kroeger 54	DCAC 4:14.83	Kevin Tunstall 33	William Kritzer 41
Thomas Moyer 49	Marcus Chung 22	Grant Wilson 32	Larry Mock 32
Charles Maas 63	Matthew Kinney 28	UCLA BRUIN MAST 4:27.90	NEM 5:03.21
Frank Thompson 45	Corey Carlisle 27	L Vandenberghe 34	John Bobbin 32
OSB 5:33.40	Hugh McGowan 21	Robert Dettmer 33	Al Craig 71
Harry Delatre 52	MICH 5:06.36	David Hovland 30	Michael Kennedy 39
Tom Mitchell 65	Clint Densham 22	Roger Hawkins 50	Peter Worland 40
David Williams 41	Shawn Kucera 25	ART 4:30.79	MICH 5:04.10
Rick Goeden 51	Jay Schultz 23	Jeff Bakehorn 34	Richard Chaney 47
ROSE BOWL AQUAT 5:53.72	Dave Perry 19	Enrique Erosa 34	Steve Hansen 46
Tom Coultas 44	400 M. MEDLEY R MEN 100+	Sean Fitzgerald 34	Lawrence Kimball 47
M Winterbauer 38	400 M. MEDLEY R MEN 200+	Robert Harms 28	Leonard Brockhahn 47
Stephen Saylor 56	JERSEY MASTERS 4:38.38 96	UCLA BRUIN MAST 4:33.42	RICH ALEXANDER
Carl Acosta 64	RICH ALEXANDER	Randall Eickhoff 33	
400 M. FREE REL MEN 240+		Michael Collins 32	
		Tom LaTourrette 35	
		Gerry Rodrigues 36	

1998 SHORT-COURSE METERS - TOP-TEN RELAYS

<p>ED NESSEL ART DEFFAA JIM DRAGON GARDEN STATE MA 4:46.78 Richard Alexander 54 Edward Nessel 53 Rob Copeland 42 Jim Dragon 54 MICH 5:24.61 Frank Thompson 46 Dennis McManus 51 Donald Kroeger 54 John Ries 67 INLAND MASTERS 6:35.30 Mike Murphy 38 Joe Deem 45 Bob Best 66 Charlie Potts 63 DCAC 7:01.67 Ken Beier 48 John Vail 50 Barry Haddan 47 Hal Ponder 56 OJAI-SANTA BARB 7:30.72 Robert May 64 Harry Delatre 52 Peter Lawrence 52 John Johnston 55 400 M. MEDLEY R MEN 240+ SAN MATEO 5:25.95 93 RAY TAFT STANLY PANKO BILL STEUART DICK PETERSON OJAI-SANTA BARB 6:43.30 John Bleck 65 Woody Gair 68 Tom Mitchell 65 Jack Spracklin 68 400 M. MEDLEY R MEN 280+ OREGON 6:25.20 91 EARL WALTER BOB MORRISON ANDREW HOLDEN FORBES MACK ST. LOUIS AREA 7:11.52 Robert Blake 73 John Gallaher 69 Edward Rosenhauer 67 Donald Sery 74 COLONIALS 1776 8:10.08 Norman Garsoe 74 Ernest Moore 70 Edward Morgan 59 Henry Shostchuk 81 MICH 8:33.45 Don May 77 Don Korten 71 Jae Birch 70 Elmer Frost 75 400 M. MEDLEY R MEN 320+ COAST 7:39.16 97 LOUIS GIBERSON WOODROW BOWERSOCK BOB CHRISTIANS WALTER PFEIFFER NO RELAYS 800 M. FREE REL MEN 76+ EMPIRE STATE 8:56.41 93 TONY MEINDL</p>	<p>ALEXANDER HALL JOHN SPEER ROBERT VALENTIN NO RELAYS 800 M. FREE REL MEN 100+ DAVIS AQUATIC 7:57.87 95 MICHAEL COLLINS MATT GRAHN BRAD WINSOR JOHN KEPPELER GARDEN STATE MA 9:52.10 Doug Clark 29 Don Dipalma 33 Norman Noe 29 Gene Tavera 24 NEM 10:27.38 Henry Baker 31 William Riddell 30 Ted Mack 30 Mark Goldman 27 800 M. FREE REL MEN 120+ DCAC 8:01.80 96 NEILL WILLIAMS DAVID MICHAELS STEVE SMITH ERIC KIELIN UCLA BRUIN MAST 8:57.43 Randall Eickhoff 33 Michael Collins 32 Gerry Rodrigues 36 Tom LaTourrette 35 NEM 9:09.81 Brian Casey 35 Stuart Cromarty 34 Mark Seasholes 31 Rob Berry 30 LAKESIDE MASTER 9:18.06 Kevin Scarborough 43 Sam Blythe 39 Jim Luebbe 31 Russell Williams 39 SAN DIEGO SWIM 9:31.15 Eric Bonney 29 Robert Rodee 26 Eric Neilsen 32 James Ney 39 MICH 9:48.16 Stuart Mair 38 Tom Lynch 33 Elmer Sperry 43 Jeff Colton 33 WHITE PLAINS MA 10:22.87 Chris Beliveau 39 Daniel Machado 29 Andrew Spangler 28 Peter Dwyer 41 NEM 10:47.14 Jonathan Banville 28 Mark Murphy 32 Michael Kennedy 37 Jonath Wilwerding 44 UCLA BRUIN MAST 10:57.62 David Hovland 30 Mark Steele 31 Fabio Flagiello 32 I Kanellakopoulos 34 800 M. FREE REL MEN 160+ MINNESOTA 8:25.47 98 NATE LEIGH JIM STEWART JOE VRUDNY PAUL WINDRATH</p>	<p>MINNESOTA 8:25.47 Nate Leigh 42 James Stewart 41 Paul Windrath 44 Joe Vrudny 33 NEM 9:23.84 Warren Wise 43 Thomas Mack 40 Edmund Gendreau 36 David Bright 45 OJAI-SANTA BARB 9:50.00 John David 40 Robert Lobdell 43 Corey Welles 35 Rick Goeden 51 COLONIALS 1776 10:07.56 Steve Kelly 40 Warren Fisher 42 Daniel Allen 36 Mark Lefevre 44 LAKESIDE MASTER 10:16.02 Theodore Wathen 51 Tom Grant 47 Jim Gleason 36 Jimbo Martin 40 SLAM 10:36.19 William Cannon 68 Karl Gundersen 29 Steve Hancock 42 Bruce Hopson 32 O*H*I*O MASTERS 11:01.29 Bruce Allen 50 Duane Grassell 40 Bill Warren 32 Gordon DeMeester 55 NEM 11:52.35 Thomas Piper 53 Gudarz Davar 41 Daniel Truesdale 35 Kenneth White 37 NEM 13:10.46 Mark Parquette 24 Charles Dufour 54 Chuck Doleac 51 Marc Scheele 52 800 M. FREE REL MEN 200+ CONNECTICUT 9:48.41 92 RONALD MOLNAR DANIEL DAVIS MICHAEL LAUX JACK GEOGHEGAN SAN DIEGO SWIM 9:48.62 Thomas Green 51 Lee Mench 45 Mike Freshley 57 Jerry O'Mara 51 O*H*I*O MASTERS 10:27.50 Karl Kazmaier 43 Tom Spence 54 Gordon DeMeester 56 Dave Quiggin 54 MICHIGAN 10:51.00 Donald Kroeger 54 Thomas Moyer 49 Charles Maas 63 Frank Thompson 45 LAKESIDE MASTER 11:05.51 James Goodwin 51 Glenn Hubbuch 52 Thomas Finnegan 52 Larry Keaton 55 NEM 12:22.10 Johan Kerkhove 46 Cliff Jennings 45 James Christopher 71 Daniel Rogacki 51</p>	<p>OJAI-SANTA BARB 15:07.06 Larry Chambers 51 Harry Delatre 52 John Johnston 55 Woody Gair 68 800 M. FREE REL MEN 240+ SAN DIEGO 10:20.54 97 MIKE FRESHLEY BILL EARLEY KENNETH KIMBALL WILLIAM PHILLIPS SAN DIEGO SWIM 11:43.83 Ken Kimball 68 Donald Baker 67 Bill Earley 62 Mike Freshley 57 800 M. FREE REL MEN 280+ SAN DIEGO 11:56.30 98 DON BAKER BILL EARLEY WILLIAM PHILLIPS JIM EUBANK SAN DIEGO SWIM 11:56.30 Donald Baker 67 Bill Earley 62 William Phillips 70 Jim Eubank 83 ST. LOUIS AREA 14:44.24 Robert Blake 73 William Cannon 68 Robert Neubert 68 Donald Sery 74 OJAI-SANTA BARB 15:09.22 Tom Mitchell 65 John Melville 79 Boyd Ford 73 John Bleck 65 800 M. FREE REL MEN 320+ COAST 15:10.98 97 LOUIS GIBERSON WOODY BOWERSOCK BOB CHRISTIANS WALTER PFEIFFER NO RELAYS MIXED RELAYS 200 M. FREE REL MIXED 76+ OLYMPIC CLUB 1:43.33 95 SHARON SCOTT ALICIA WALKER JAMIE PATRICK MARTIN HERMANN UCLA BRUIN 1:56.81 Tom Richner 23 Marc Lewis 20 Kim Goldthorpe 23 Lura Hess 22 DCAC 1:57.66 Mike Flynn 28 Sara Reese 23 Liz Reisch 25 Hugh McGowan 21 UCLA BRUIN 2:05.58 William Krauss 23 Patrick Wen 26 Cammey Chen 23 Amira Jarmakani 24 NEM 2:19.60 Charlie Weisman 23</p>
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1998 SHORT-COURSE METERS - TOP-TEN RELAYS

Elizabeth Boehm 24	Mark Seasholes 31	Lisa Sartori 33	MIKE FRESHLEY
Leslie Allen 23	OJAI-SANTA BARB 1:56.18	NEM 2:09.15	BETSY JOTDAN
Mark Goldman 27	Wenke Hansen 29	Bob Seltzer 47	JACKIE MARR
200 M. FREE REL MIXED 100+	D Fisher Shoemake 35	Laurie Ellis 35	DONALD BAKER
EL SEGUNDO 1:41.62 97	Kelvin Ng 21	Karen Gleason 38	SAN DIEGO SWIM 2:06.22
BERT BERGEN	David Schrader 42	Jonath Wilwerding 44	Mike Freshley 57
D GRANER GALLAS	ROLLING HILLS 1:56.54	OJAI-SANTA BARB 2:09.63	Betsy Jordan 61
MARCEL RINZLER	Debbie Schultz 30	Mike Shaffer 33	Jackie Marr 55
HEIDI HANNENIAN	Joshua Scott 42	Kriss Dotson 46	Donald Baker 67
MENLO PARK MA 1:55.33	Cokie Lepinski 39	Rick Goeden 51	GOLD COAST 2:17.17
Anna Malsch 24	Eric Van Boer 43	Mary Natwick 40	June Krauser 72
Stewart Reis 26	PARRIS ISLAND 1:56.76	UCLA BRUIN 2:11.11	Cav Cavanaugh 63
Tracey McLachlan 26	Caleb Hood 24	Mark Snyder 39	William Dolan 69
Ed Owen 27	Etta Andrews 34	Christie Ciraulo 45	Debbie Cavanaugh 40
UCLA BRUIN 1:56.47	Leslie Ochs 34	Patricia Naruse 40	SPM 2:23.84
Steve Kim 22	Marc Reichel 36	Chris Hauty 42	Jayne Lambke 59
Matthew Buffleben 29	NEM 1:56.77	200 M. FREE REL MIXED 200+	Elaine Bromwich 55
Suzanne Porush 29	Michael Hirst 38	TAMALPAIS 1:55.91 98	Peter Arnold 59
K Robertson 22	K Nisley-Black 43	RICHARD BURNS	Harold Ferris 67
VENICE BEACH CI 1:58.21	Tracy Grilli 41	ED CAZALET	NORTH CAROLINA 2:27.06
Mark Toyooka 32	Chris French 36	LAURA VAL	Jeannie Mitchell 52
Maggie Pantonin 30	INLAND MASTERS 1:59.14	NANCY RIDOUT	Sally Newell 61
C Smits Van Oyen 27	Virginia Moretto 29	TAMALPAIS MASTE 1:55.91	Dick Webber 69
Chappie De Haven 29	Daniel Feld 29	Laura Val 47	Norman MacCartney 60
NEM 2:04.32	M Danapilis 26	Ed Cazalet 56	HEARTLAND MASTE 2:44.52
Ted Mack 30	Rusty Robertson 36	Nancy Ridout 56	Douglas Selby 53
Katherine Veazey 25	NORTH CAROLINA 1:59.70	Richard Burns 55	Ron Williamson 60
Corinne Murphy 25	Christine Vess 33	GOLD 1:58.89	Marilyn Ramey 58
Rob Berry 30	Heather Hageman 28	George Schmidt 48	Nancy Reed 71
NEM 2:04.42	Eric Vess 27	Meg May 40	OJAI-SANTA BARB 2:45.18
Henry Baker 31	Scott Hinckley 38	Marcia Barry 50	Woody Gair 68
Jessica Berger 26	UCLA BRUIN 2:00.47	Cav Cavanaugh 62	Ed Farrell 66
Kari Andersson 26	I Maxtone-Graham 39	MENLO PARK MA 2:13.52	Kitty Johnston 56
William Riddell 30	Gerry Rodrigues 36	Katherine Bass 46	Carole Borland 55
NEM 2:07.38	Kacy Magedman 31	Carl Mortensen 54	O*H*I*O MASTERS 2:45.97
Jonathan Banville 28	Robin Miller 37	Ginny Langmuir 45	Nancy Waite 64
Rebec Kupcinkas 24	200 M. FREE REL MIXED 160+	Murray McLachlan 57	Phil Williamson 65
Emilie Ellis 24	SAN DIEGO 1:47.38 96	UCLA BRUIN 2:20.13	Lilly Kron 67
Tod Minotti 29	BETH KNIGHT	Bill Earley 62	Julio Aponte 53
SWIM 2:07.81	K.PIPES-NEILSEN	Patricia Thomas 40	PARRIS ISLAND 2:47.39
Chris Connor 23	LARRY CARTWRIGHT	Steve Moseley 60	David Painter 60
Kerry Vermillion 22	LEE MENCH	Laura Meldrum 45	Martha Davis 57
Adrienne Seal 33	SAN DIEGO SWIM 1:50.12	SPM 2:21.34	Mary Moseley 51
Brian Horne 27	K Pipes-Neilsen 36	Judy Tibma 42	James Williamson 74
PNA 2:11.85	Mary Ellen Anders 38	Richard Avery 75	FMM 2:58.10
Sarah Hans 22	Chris Dixon 41	Charles Kohnken 67	Margie Hutingier 58
Tahnee Bollert 25	Lee Mench 46	Jo Ann Harrelson 42	Robert MacDonald 70
Selby Radabah 34	COLONIALS 1776 1:53.91	NEM 2:23.32	Doris Prokopi 62
Ron Oren 38	Steve Kelly 40	Fred Schlicher 50	Alan Maloney 69
DELAWARE OLD DA 2:17.86	Daniel Allen 36	M Molly Magoon 40	COLONIALS 1776 2:59.14
A Grundstein 28	Patricia Timmins 44	Alison Goulder 47	Edward Morgan 59
Vicki Ashworth 24	Mary Ann McClain 57	Al Craig 71	Janet Moeller 63
Carrie Loehr 23	ARIZONA MASTERS 1:57.04	UCLA BRUIN 2:23.45	Patricia Tullman 61
Jorge Gomez 25	Jeff Krongaard 44	Roger Hawkins 50	Norman Garsoe 74
200 M. FREE REL MIXED 120+	James Bly 52	Vicki Serianni 47	200 M. FREE REL MIXED 280+
ST.PETE 1:45.78 96	Jennifer Jones 32	Brenda Jarmakani 51	OJAI S BARBARA 2:35.36 95
LISA SUMMERS	Brenda Creswell 36	Roy Lee 52	FRANK PIEMME
WILLIAM SPECHT	GOLD 1:58.05	ELMWOOD SHARKS 2:27.50	GRACE ALTUS
MCKEITHEN-BUSSEY	Chuck Reller 47	Shelley Schuback 48	RUTH BAAR
STUART BARTON	Debbie Cavanaugh 40	Cecile Many 44	JURGEN SCHMIDT
SPM 1:48.77	Jean Spinelli 42	Phil Gibbs 54	SAN DIEGO SWIM 2:40.50
Cathy Shonkwiler 38	John Spire 46	Bob Reimers 55	Ken Kimball 68
William Specht 40	LOCH 1:59.26	GEORGIA MASTERS 2:28.00	Diana Silva 76
Stuart Barton 30	Carol-Ann Hudson 41	Lisa Watson 44	Ann Dallam 68
Charlott Petersen 34	David Marshall 43	Bill McClung 59	William Phillips 70
GARDEN STATE MA 1:51.45	Linda Felton 48	David Wilshin 57	OJAI-SANTA BARB 2:44.26
A Luallen-Scholz 33	Andy Braun 40	F Williamson 50	Jurgen Schmidt 75
Pete Rahko 32	MACO 2:02.38	O*H*I*O MASTERS 2:28.90	Frank Piemme 73
Bridget Coll 28	Robert Maestre 48	Prudy Hall 59	Malchia Olshan 67
Benn Doyle 40	Dan Knauer 38	Steve Hamilton 62	Gay Collins 68
NEM 1:54.87	Becky Oblatz 39	Bruce Allen 50	SAN DIEGO SWIM 2:48.81
John Bobbin 32	Ginger Pierson 52	Kathy Hutchinson 37	Jordan Wolle 70
Stephanie Wriede 28	ARIZONA MASTERS 2:03.26	200 M. FREE REL MIXED 240+	Marian Wolle 70
Jennifer Gold 29	Robert Lewis 55	SAN DIEGO 2:06.22 98	Lynne Lund 58
	Charles Sparr 51		Jim Eubank 83
	Teri Lhost 33		LOWER BUCKS YMC 2:55.46

1998 SHORT-COURSE METERS - TOP-TEN RELAYS

Van Reymerdsdal	69	Kelvin Ng	21	Andrea Milano	31	John Sylvester	41
Van Reymerdsdal	71	UCLA BRUIN MAST	2:17.32	PNA	2:11.42	200 M. MEDLEY R MIXED 200+	
Jane Dougherty	77	Steve Kim	22	Bob Fish	35		
Norm Garsoe	74	Matthew Buffleben	29	Linda Hegeberg	28		
SPCO	2:59.95	Suzanne Porush	29	Jim Williams	42	TAMALPAIS	2:09.56 98
Angie Sinacore	68	K Robertson	22	Carolyn Mathews	36	RICHARD BURNS	
Bunny Cederlund	76	VENICE BEACH CI	2:18.39	COLONIALS 1776	2:12.05	GARY PARLAPIANO	
Robert Sigersmith	74	C Smits Van Oyen	27	Warren Fisher	42	LAURA VAL	
Phil Lindsley	65	Mark Toyooka	32	Laurie Hug	30	NANCY RIDOUT	
OJAI-SANTA BARB	3:03.34	Chappie De Haven	29	Terri Natali	38	TAMALPAIS MASTE	2:09.56
Peggy Sanborn	71	Maggie Pantonin	30	Mark Lefevre	44	Richard Burns	55
Boyd Ford	73	NEM	2:19.57	TEAM GREENVILLE	2:18.37	Gary Parlapiano	51
Tom Mitchell	65	David Koconis	33	Terry Palma	49	Laura Val	47
Grace Altus	74	Merideth Cox	23	Beth Scheimann	36	Nancy Ridout	56
COAST MASTERS	3:12.48	S Brostrup-Jense	31	Alan Robinson	39	GOLD	2:24.48
Donald Mc Intosh	62	Rami Zaki	26	Ronda Reynolds	33	John Spire	46
Emile Achee	71	NEM	2:21.39	PENNYPACK AFC	2:19.72	Debbie Cavanaugh	40
Maurine Kornfeld	77	Emilie Ellis	24	Thomas Vokes	45	Cav Cavanaugh	62
Maxine Merlino	86	Rebec Kupcinkas	24	Betsey Collins	29	June Krauser	72
OJAI-SANTA BARB	3:19.08	Mark Goldman	27	Brian Jackson	35	ARIZONA MASTERS	2:29.70
Maggie Mors	72	Jonathan Banville	28	M Campbell	34	Nancy Macbeth	69
Jack Spracklin	68	DELAWARE OLD DA	2:27.54			Bob Liotta	47
Ruth Farnham	68	Vicki Ashworth	24	200 M. MEDLEY R MIXED 160+		Lisa Sartori	33
John Stern	74	Carrie Loehr	23	S CAL AQUATIC	2:01.04 97	Hop Bailey	51
OJAI-SANTA BARB	3:52.07	Dave Roach	43	CLAY EVANS		SWIM	2:29.85
Jennie Taylor	81	Jorge Gomez	25	PAUL HENNE		Dren Geer	64
John Melville	79	NEM	2:29.38	SHIRLEY KIM		Deb Walker	47
Eleanor Brown	72	Amanda Telford	29	BONNIE ADAIR		James Redic	52
Richard Weirick	70	Mark Parquette	24	SAN DIEGO SWIM	2:03.62	Gail Kolbe	45
		Kristen Oconnor	26	K Pipes-Neilsen	36	OREG	2:30.36
200 M. FREE REL MIXED 320+		Michael Rydeen	28	Caroline Krattli	36	Robert Bruce	50
SAN MATEO	3:33.37 97	WIS MASTERS	2:31.25	Chris Dixon	40	George Thayer	62
AUDREY ETIENNE		Mike Kramp	25	Thomas Green	51	Barbara Harris	38
RAY TAFT		Laurie Schroeder	33	ARIZONA MASTERS	2:13.49	Pamela Himstreet	55
ZADA TAFT		Jay Buckmaster	27	Jeff Krongaard	44	LOWER BUCKS Y	2:41.00
JOE KAUFMAN		Jennifer Boehm	21	Jennifer Jones	32	J Bond	32
NO RELAYS		OJAI-SANTA BARB	2:32.36	James Bly	52	Van Reymerdsdal	71
		Corey Welles	35	Brenda Creswell	36	M Fitch	47
200 M. MEDLEY R MIXED 76+		Kelly Gleason	22	PALMETTO MASTER	2:15.42	Jim Kremzier	52
		Brandy Hudnett	24	Jan Pesavento	47	CONN	2:41.11
		Jeffrey Bogda	24	David Parler	42	Dorothy Donnelly	76
DAVIS AQUATIC	2:03.64 95	200 M. MEDLEY R MIXED 120+		Joe Shake	40	Rae Ann Rutkowski	36
ANDY SLAKOFF		LAKESIDE	1:58.28 89	Dara Wilber	38	Brian Quinn	43
WENDY CERRUTI		WILLIAM TINGLEY		PARRIS ISLAND	2:17.22	Daniel Davis	56
BRAD WINSOR		GINA GATTI		Jane Springer	28	NEM	2:44.70
TATE BIRNIE		MICHAEL HIGGS		Leslie Ochs	34	Constance Sasser	52
NEM	2:16.88	MELINDA SCHMITT		Michael Burley	45	Samuel James	50
Leslie Allen	23	SPM	2:00.78	David Painter	60	Susan Purcell	48
Elizabeth Boehm	24	William Specht	40	PNA	2:20.26	Joseph Hibbard	51
Charlie Weisman	23	Maud Orlando	36	Pinky Walker	55	INLAND MASTERS	2:48.78
Raymond Kan	25	Stuart Barton	30	Veronica Bowman	27	Stephanie Avant	49
UCLA BRUIN MAST	2:17.51	Cathy Shonkwiler	38	Paul Monohon	52	George Bruggeman	63
Tom Richner	23	OREG	2:04.29	Bart Christie	41	Bob Best	66
Lura Hess	22	Steve George	39	GOST	2:20.34	Pat Maglasang	47
Marc Lewis	20	Pat Allender	40	Ann Guins	45	LAKESIDE MASTER	2:48.90
Kim Goldthorpe	23	Shauna Simpson	27	Robert Burns	46	Thomas Finnegan	52
UCLA BRUIN MAST	2:23.37	Lisa Hjerpe	30	Dale Thompson	48	Larry Keaton	55
Amira Jarmakani	24	GARDEN STATE MA	2:04.82	Marcia Haver	43	Debbie Utz	45
Cammy Chen	23	A Luallen-Scholz	33	MACO	2:20.79	M Blaske-Hull	49
Patrick Wen	26	Benn Doyle	40	Ginger Pierson	52	200 M. MEDLEY R MIXED 240+	
William Krauss	23	Bridget Coll	28	Becky Oblatz	39	SAN DIEGO	2:25.26 98
		Ed Tsuzuki	39	Robert Maestre	48	BETSY JORDAN	
200 M. MEDLEY R MIXED 100+		SAN DIEGO SWIM	2:08.71	Dan Knauer	38	MIKE FRESHLEY	
		Eric Bonney	29	NEM	2:21.22	JACKIE MARR	
EL SEGUNDO	1:52.80 97	Caroline Krattli	36	Tracy Grilli	41	DONALD BAKER	
D GRANER GALLAS		Eric Neilsen	32	Michael Hirst	38	SAN DIEGO SWIM	2:25.26
DAVE HUSTON		Nancy North	30	Chris French	36	Betsy Jordan	61
DEREK ROBINSON		ORLM	2:08.91	Evelyn Hausberger	54	Mike Freshley	57
HEIDI HANNENIAN		Frederick Ehmke	43	NORTH CAROLINA	2:21.52	Jackie Marr	55
NORTH CAROLINA	2:09.37	Linda Visser	28	Beverly Amick	44	Donald Baker	67
Christine Vess	33	Susan Kominowski	39	Steve Weatherman	42	GOLD COAST	2:38.47
Eric Vess	27	Andrew Farrell	27	Jonathan Klein	41	Cav Cavanaugh	62
Jeff Murray	29	OREG	2:09.48	Karen Tallmadge	36	Herb Kern	66
Heather Hageman	28	Matthew Roth	31	PNA	2:23.91	Debbie Cavanaugh	40
OJAI-SANTA BARB	2:12.46	Wendy Dixon	20	Mike McColly	52	June Krauser	72
Jane Cairns	28	Chris Roth	39	Lani Doely	41	NORTH CAROLINA	2:44.49
Wenke Hansen	29			Debbie Glassman	44		
Stuart Sato	41						

1998 SHORT-COURSE METERS - TOP-TEN RELAYS

Ceil Blackwell	58	Margot Lenigk	86	Julie Bickel	37	Marc Scheele	52
Sally Newell	61	Audrey Etienne	82	Gail Jacobs	31	Michael McAfee	37
Clarke Mitchell	66	Don Stupfel	70	Randy Crutchfield	40	Deborah Edin	36
Dick Webber	69	Dick Peterson	61	Clay Merritt	35	Sandy Woodcock	42
SPM	3:04.70	NORTH CAROLINA	5:43.44	HEARTLAND SWIM	4:53.83	HEARTLAND SWIM	5:55.11
Pam Geiger	45	Buz Catlin	84	Shawna Milner	29	James Patzoid	49
Abrasha Brainin	75	Bette Hoffman	79	Llew Munter	40	Edward Menzies	48
Elaine Bromwich	55	Harold Hoffman	90	Glenn Leeks	32	Debbie Schwinn	38
Charles Kohnken	67	Norman MacArtney	60	Tamy Johniken	35	Betty Courtney	45
OSB A	3:07.50			COLONIALS 1776	5:02.14		
Tom Mitchell	65	200 M. MEDLEY R MIXED 320+		Steve Kelly	40	400 M. FREE REL MIXED 200+	
John Bleck	65			Regina Gluchowski	23		
Kitty Johnston	56	COAST MASTERS	3:54.19 98	Dawn Carlson	26	SAN DIEGO	4:23.85 98
Carole Borland	55	MADELEINE MILLER		Daniel Allen	36	MIKE FRESHLEY	
COLONIALS 1776	3:20.10	MAXINE MERLINO		SIMI VALLEY MAS	5:16.07	BILL EARLEY	
Norman Garsoe	74	BOB MERRICK		A Bergstrom	24	BARBARA DUNBAR	
Janet Moeller	63	WOODROW BOWERSOCK		Lynne Eigler	46	K PIPES-NEILSEN	
Patricia Tullman	61	COAST MASTERS	3:54.19	Neal Oyama	32	SAN DIEGO SWIM	4:23.85
Ernest Moore	70	Madeleine Miller	88	Brian Villacorta	25	Mike Freshley	57
LOWER BUCKS YMC	3:26.44	Maxine Merlino	86	WHITE PLAINS MA	5:19.94	Bill Earley	62
Van Reymersdal	69	Bob Merrick	78	Carolyn Reuter	25	Barbara Dunbar	49
C Rodgers	46	Woodrow Bowersock	85	Ryuichi Sagara	46	K Pipes-Neilsen	36
Norm Garsoe	74			Geneve Hendricks	29	MICH	5:15.72
Sam Hossain	56	400 M. FREE REL MIXED 76+		Donald Kluge	42	Donald Kroeger	54
GREATER N.O. MA	4:24.04			VENICE BEACH CI	5:45.24	Joyce Kowalski	56
Carol Lairmore	65	SANTA CLARA	4:08.78 94	Mark Toyooka	32	Beverly Myers	63
Patricia Arnold	59	JOANNE MILLARD		James Kono	46	Frank Thompson	46
Robert Rodrigue	64	MIKE MOORE		Corby Arthur	40	HEARTLAND SWIM	5:24.13
Maurice Stern	82	ANNE WATKINS		Emine Sarikaya	25	Andy Pizskin	39
COAST MASTERS	4:28.60	B.LICHTENWALTER				Douglas Selby	53
Maurine Kornfeld	77	NO RELAYS		400 M. FREE REL MIXED 160+		Marlee Valderhaug	56
Margo Bouer	63					Marilyn Ramey	57
Donald Mc Intosh	62	400 M. FREE REL MIXED 100+		SAN DIEGO	3:57.64 96		
Emile Achee	71			K.PIPES-NEILSEN		400 M. FREE REL MIXED 240+	
200 M. MEDLEY R MIXED 280+		SAN DIEGO	3:55.65 97	BETH KNIGHT			
		ROBERT RODEE		LARRY CARTWRIGHT		SAN DIEGO	5:03.72 97
OJAI S BARBARA	2:55.31 95	NANCY NORTH		LEE MENCH		BILL EARLEY	
GAY COLLINS		ALISON TERRY		NEM	4:42.55	BETSY JORDAN	
FRANK PIEMME		ALAN VOISARD		Chris French	36	JACKIE MARR	
JURGEN SCHMIDT		TEAM ORACLE	4:24.61	Michael Hirst	38	DONALD BAKER	
RUTH BAAR		Mark Welsh	26	Evelyn Hausberger	54	SAN DIEGO SWIM	5:04.46
SAN DIEGO SWIM	3:04.62	Gayle Blumenfeld	31	Tracy Grilli	41	Jackie Marr	55
Lynne Lund	58	Erika Leetmae	27	NEM	4:44.91	Betsy Jordan	61
Marian Wolle	70	Greg Ishii	27	Warren Wise	43	Mike Freshley	57
Donald Hubbard	71	NEM	4:26.82	Ann Fredette	53	Donald Baker	67
Jim Eubank	83	Rami Zaki	26	Mary Ellen Powers	32	SPM	6:13.89
SAN DIEGO SWIM	3:12.05	David Koconis	33	David Bright	45	Sandy Steer	59
Ken Kimball	68	S Brostrup-Jense	31	COLONIALS 1776	4:48.20	Jayne Lambke	59
Ann Dallam	68	Merideth Cox	23	Michael Slenker	52	Charles Kohnken	66
Diana Silva	76	NEM	5:03.55	Kim Kryzan	29	Harold Ferris	67
Richard Labahn	70	Michael Rydeen	28	Kathy Frazier	38		
SPCO	3:18.43	Mark Parquette	24	Mark Lefevre	44	400 M. FREE REL MIXED 280+	
Bunny Cederlund	76	Kristen Oconnor	26	SPM	4:51.26		
Richard Robecki	68	Kendra Garrow	24	Michael Milligan	41	OJAI S BARBARA	5:49.30 95
Angie Sinacore	68			Maud Orlando	35	FRANK PIEMME	
Robert Sigersmith	74	400 M. FREE REL MIXED 120+		Gary Bastie	48	RUTH BAAR	
OJAI-SANTA BARB	3:20.49			Cathy Shonkwiler	38	GRACE ALTUS	
Jack Spracklin	68	SAN DIEGO	3:54.42 96	SAN MATEO MARL	4:57.78	JURGEN SCHMIDT	
Maggie Mors	72	ALAN VOISARD		Mark Sanchez	43	SAN DIEGO SWIM	6:17.53
Grace Altus	74	STEPHEN SEGRETO		Dick Peterson	61	Diana Silva	76
Woody Gair	68	K PIPES-NEILSEN		Dana Hunter	34	Ann Shenck Dallam	68
OJAI-SANTA BARB	3:22.51	VICKY DAVIDSON		Heidi Hagler	39	William Phillips	70
Gay Collins	68	SAN DIEGO SWIM	4:18.37	NEM	5:12.44	Jordan Wolle	70
Frank Piemme	73	Nancy North	30	Jennie Marshall	38		
Malchia Olshan	67	Lee Mench	46	Byron Siegal	51	400 M. FREE REL MIXED 320+	
Jurgen Schmidt	75	Mary Ellen Anders	38	Carol Prescott	29		
FMM	3:49.99	Michael Given	34	Chuck Doleac	51	ST PETE	8:18.35 97
Frank Tillotson	83	NEM	4:36.69	NEM	5:15.16	JOHN JOHNSTON	
Gladys Olsen	72	Edmund Gendreau	36	Pam O'Neill	48	KAY SCHIMPF	
Joseph Kurtzman	72	Connie Hallett	39	Peter Buerhaus	44	FRED WALBOLT	
Margie Hutinger	58	Amanda Telford	29	H Paris Burstyn	46	JUNE REYNOLDS	
OJAI-SANTA BARB	4:04.01	Thomas Mack	40	Linda Carstens	46	NO RELAYS	
Jennie Taylor	81	SAN DIEGO SWIM	4:38.88	GOST	5:35.66		
Eleanor Brown	72	K Pipes-Neilsen	36	Leti Griefenstine	24	400 M. MEDLEY R MIXED 76+	
Robert Smith	55	Diane Hirakawa	49	Ann Guins	45		
Boyd Ford	73	Eric Neilsen	32	Tom Moon	43	DAVIS AQUATIC	4:33.44 95
SAN MATEO MARL	4:37.40	Eric Bonney	29	Dale Thompson	48	JOHN KEPPELER	
		GRIN	4:48.89	NEM	5:43.90	TIM LYNCH	

1998 SHORT-COURSE METERS - TOP-TEN RELAYS

CHRISTINE SCHULTZ	UCLA BRUIN MAST	MICHIGAN	Susanne Schumann
TATE BIRNIE	Steve Kim	Thomas Moyer	Sandi Rousseau
NEM 5:45.20	Kacy Magedman	Donald Kroeger	Gilbert Young
Leslie Allen 23	Scott Begin	Beverly Myers	SAN MATEO MARL 7:57.80
Elizabeth Boehm 24	Susan Begin	Victoria Webber	Zada Taft 79
Mark Goldman 27	MENLO PARK M 5:15.05	GRIN 6:10.19	Roy Taft 51
Charlie Weisman 23	John Moore 34	Randy Crutchfield	Lynne DeVictoria 56
400 M. MEDLEY R MIXED 100+	Dariusz Paczuski 32	Gail Jacobs 31	Ray Taft 79
SAN DIEGO 4:29.74 93	Frances Reneau 39	Diane Sidner 38	NEM 9:44.19
ALAN VOISARD	Andi Smith 31	Doug Church 54	Elinor Wright 74
LUKE SALERNO	MENLO PARK M 5:29.86	HEARTLAND SWIM 6:11.26	Ellen Knudsen 47
KARLYN PIPES	Bill Nighan 36	Betty Courtney 45	James Christopher 71
DIANE GLEASON	Sherman Hall 35	Edward Menzies 48	Robert Wright 78
NEM 4:49.29	Judy Strauss 44	Shawna Milner 29	400 M. MEDLEY R MIXED 280+
David Koconis 33	Sue Forbes 34	James Patzoid 49	ST PETE 6:54.87 95
Robert Sczupak 29	NEM 5:33.31	400 M. MEDLEY R MIXED 200+	PAUL HUTINGER
Bridget Samuel 30	Diane Hughes 36	TAMALPAIS 4:50.08 98	ROBERT MACDONALD
Merideth Cox 23	Mark Parquette 24	RICH BURNS	FLORENCE CARR
NEM 4:50.92	Carol Prescott 29	GARY PAMPLAPIANO	KAY SCHIMPF
Rebec Kupcinkas 24	Patrick Stevens 45	LAURA VAL	OJAI-SANTA BARB 11:14.36
Jonathan Banville 28	NEM 5:39.34	NANCY RIDOUT	Jennie Taylor 81
Rob Berry 30	Stuart Cromarty 34	TAMALPAIS AQU 4:50.08	Boyd Ford 73
Emilie Ellis 24	Brian Casey 35	Rich Burns 55	Eleanor Brown 72
MENLO PARK MA 4:55.52	Emilie Ellis 24	Gary Parlapiano 51	John Melville 79
Anna Malsch 24	Karen Gleason 38	Laura Val 46	400 M. MEDLEY R MIXED 320+
Tracey McLachlan 26	WHITE PLAINS MA 5:46.39	Nancy Ridout 56	SAN MATEO 9:07.66 94
Stewart Reid 26	Caroyn Reuter 25	SAN DIEGO SWIM 5:12.02	JOE KAUFMAN
Ed Owen 27	Andrew Spangler 28	Bill Earley 62	HELEN ROUMASSET
OJAI-SANTA BARB 4:59.63	Geneve Hendricks 29	Mike Freshley 57	RAY TAFT
Jane Cairns 28	William Homan 50	Nancy North 30	AUDREY ETIENNE
Kelvin Ng 21	VENICE BEACH CI 5:53.54	Jackie Marr 55	COAST MASTERS 11:14.66
Stuart Sato 41	Carole Shigaki 43	MENLO PARK MA 5:41.27	Maxine Merlino 86
Robin Dotson 20	James Kono 46	Katherine Bass 46	Madeleine Miller 88
NEM 5:08.20	Mark Toyooka 32	Carl Mortensen 54	Walt Pfeiffer 85
Katherine Veazey 25	Emine Sarikaya 25	Ginny Langmuir 45	Woodrow Bowersock 85
Ted Mack 30	400 M. MEDLEY R MIXED 160+	Murray McLachlan 57	800 M. FREE REL MIXED 76+
Mark Murphy 33	OLYMPIC CLUB 4:32.89 95	SPM 6:13.78	DAVIS AQUATIC 9:03.90 95
William Riddell 30	FRED FERROGGIARO	Mark Powell 55	TATE BIRNIE
DE SWIM TEAM OL 5:08.38	ROBERT STRAND	Jacquelyn Piper 61	CHRISTINE SCHULTZ
C Colburn 26	LYNN JOLLY	Kim Stott 39	TODD GREENE
Nicole Mott 25	DANIELLE OGIER	Bruce Day 48	TIM LYNCH
Craig Dewing 28	SAN DIEGO SWIM 4:53.58	CONN 6:28.86	NO RELAYS
Carrie Loehr 23	K Pipes-Neilsen 36	Raymond Thornberg 59	800 M. FREE REL MIXED 100+
NEM 5:13.28	Caroline Krattli 36	Rae Ann Rutkowski 36	RUBA 8:41.15 97
Mark Seasholes 31	Alan Voisard 38	Brian Quinn 43	SCOTT YEOMANS
Jessica Berger 26	Jerry O'Mara 51	Dorothy Donnelly 76	BRIDGET COLL
Henry Baker 31	OREG 5:04.71	SAN MATEO MARL 7:09.65	LOUISE APPLETON
Stephanie Wriede 28	Robert Smith 55	Mike Millman 64	RICHARD TOOTHILL
MENLO PARK M 5:47.71	Mary Jackson 42	Dale Finch 48	OREG 9:03.67
Maia Dehlinger 27	Tom Coffey 47	Dennis Frank 48	Matthew Roth 31
Lisa Goodrich 29	Sarah Hoagland 36	Gloria Stupfel 76	Bill Zolna 29
Jocel Charbonneau 30	NEM 5:41.77	MICHIGAN 7:25.36	Lisa Hjerpe 30
Adam Wilburn 29	K Nisley-Black 43	Mary Williams 66	Shauna Simpson 27
400 M. MEDLEY R MIXED 120+	Christoph Landry 42	Thomas Moyer 50	DE SWIM TEAM OL 10:17.96
SAN DIEGO 4:25.35 98	Michael Hirst 38	Donald Kroeger 55	Scott Wasseerman 28
K PIPES-NEILSEN	Evelyn Hausberger 54	Kathy Beckley 51	Vicki Ashworth 24
CAROLINE KRATTLI	NEM 5:43.66	O*H*I*O MASTERS 7:43.84	Carrie Loehr 23
ERIC NEILSEN	H Paris Burstyn 46	Julio Aponte 53	C Colburn 26
LEE MENCH	Linda Carstens 46	Prudy Hall 60	NEM 11:47.81
SAN DIEGO SWIM 4:25.35	Paula Lessard 35	Maureen Koss 55	Mark Parquette 24
K Pipes-Neilsen 36	Frank Grillo 36	Dave Quiggin 54	Carol Prescott 29
Caroline Krattli 36	GOST 5:46.93	400 M. MEDLEY R MIXED 240+	Meg Maloney 29
Eric Neilsen 32	Ann Guins 45	SAN DIEGO 5:41.38 98	Edmund Gendreau 36
Lee Mench 46	Melinda Smith 46	BETSY JORDAN	800 M. FREE REL MIXED 120+
ROLLING HILLS 4:54.66	Robert Burns 46	MIKE FRESHLEY	CRESENT HILL 8:52.75 97
Joshua Scott 42	Dale Thompson 48	JACKIE MARR	BRAD SCHMIED
Cokie Lepinski 39	OREG 5:58.63	DON BAKER	GINA GATTI
Debbie Schultz 30	Lois Goodman 51	SAN DIEGO SWIM 5:41.38	DONNA JOHNSON
Eric Van Boer 43	Linda Swader 40	Betsy Jordan 61	
C1776 5:08.18	Robert Lobdell 43	Mike Freshley 57	
Dan McLeod 33	John David 40	Jackie Marr 55	
Jill Burke 34	NEM 5:59.43	Donald Baker 67	
James Harper 30	Susan Maguire 49	OREG 6:02.41	
Michele Pollio 34	Aagje Caron 57	Robert Smith 55	
	Thomas Garrity 40		
	Darrell Martin 51		

1998 SHORT-COURSE METERS - TOP-TEN RELAYS

MIKE NEAL		WILLIAM EARLEY	
OREG	10:02.58	MIKE FRESHLEY	
Chris Roth	39	LYNNE LUND	
Sandi Rousseau	51	K PIPES-NEILSON	
Lisa Gorsline	23	OREG	11:34.56
Phillip King	32	Pamela Himstreet	55
NEM	10:08.90	George Thayer	62
Laurie Ellis	35	Robert Bruce	50
Karen Gleason	38	Barbara Harris	38
Fred Schlicher	50	HEARTLAND SWIM	12:10.00
Rob Berry	30	Andy Piszkin	39
NEM	10:15.90	Douglas Selby	53
Robert Sczupak	29	Marilyn Ramey	57
Paula Lessard	35	Marlee Valderhaug	56
Jeff Goldman	37	NEM	13:01.99
Merideth Cox	23	Patrick Stevens	45
HEARTLAND SWIM	10:22.76	Ann Fredette	53
James Patzoid	49	Barbara Boley	73
Glenn Leeks	32	Byron Siegal	51
Shawna Milner	29	O*H*I*O MASTERS	13:28.66
Vicki Hoffman	36	Prudy Hall	60
MINN	10:28.87	Phil Williamson	65
Nicki Phillips	28	Laura Kessler	38
Wayde Mulhern	39	Julio Aponte	53
Tina Neill	32	LAKESIDE MASTER	13:38.76
Rick Dushaw	34	Randall Dufour	52
WHITE PLAINS MA	11:10.81	Woody Turrentine	50
Geneve Hendricks	29	M Blaske-Hull	49
Daniel Machado	29	Mary Jane Mullins	67
Nancy Surdoval	45	LAKESIDE MASTER	14:12.96
Alan Romaner	36	Michael Roberts	38
VENICE BEACH CI	11:26.37	Frank Diebold	50
Carole Shigaki	43	Joyce Voit	64
James Kono	46	Linda Hubbuch	53
Emine Sarikaya	25		
Mark Toyooka	32	800 M. FREE REL MIXED 240+	
UCLA BRUIN MAST	11:51.56	SAN DIEGO	11:16.08 97
L Vandenberghe	34	BETSY JORDAN	
Robert Dettmer	33	BILL EARLEY	
Susan Begin	31	KENNETH KIMBALL	
Sheron Johnston	39	JACKIE MARR	
800 M. FREE REL MIXED 160+		SAN DIEGO SWIM	11:21.58
SAN DIEGO	8:53.46 97	Jackie Marr	55
JIM BOSWELL		Betsy Jordan	61
K PIPES-NEILSEN		Mike Freshley	57
BARBARA DUNBAR		Donald Baker	67
LEE MENCH		MICH	14:07.84
COLONIALS 1776	10:17.56	Edith Glusac	79
Daniel Allen	36	Beverly Myers	62
Nancy Puckett	49	Thomas Moyer	50
Kathy Frazier	38	Donald Kroeger	54
Michael Slenker	52	800 M. FREE REL MIXED 280+	
OREG	11:07.98	ST PETE	13:32.79 95
Tom Coffey	47	ALAN MALONEY	
Sarah Hoagland	36	KAY SCHIMPF	
Diane Tucker	41	FLORENCE CARR	
Carl Trabant	37	ROBERT MACDONALD	
HEARTLAND SWIM	11:44.40	SAN DIEGO SWIM	13:48.34
Llew Munter	40	Diana Silva	76
Edward Menzies	48	Ann Shenck Dallam	68
Stephanie Clark	39	William Phillips	70
Tamy Johniken	35	Jordan Wolle	70
GOST	11:46.50	800 M. FREE REL MIXED 320+	
Dale Thompson	48	SAN MATEO	17:11.69 94
Marcia Haver	43	JOE KAUFMAN	
Robert Burns	46	HELEN ROUMASSET	
Leti Griefenstine	24	RAY TAFT	
UCLA BRUIN MAST	12:52.72	AUDREY ETIENNE	
Vicki Serianni	47	COAST MASTERS	20:15.22
Paul Rekoff	40	Madeleine Miller	88
Christie Ciraulo	45	Woodrow Bowersock	85
Bryan Plank	51	Margo Bouer	63
800 M. FREE REL MIXED 200+		Walt Pfeiffer	85
SAN DIEGO	10:20.32 96		

ERRATA FOR 1998 TOP-TEN LONG-COURSE METERS

WOMEN 55-59		9:18.05 Luke Hardy	28	2:45.47 Keith Bell	49
=====		9:19.54 Darren Dutto	29	2:48.27 Marvin Schwartz	49
400 M. FREESTYLE		9:28.80 William Smith	26	2:50.55 John McCall	46
5:44.56 Nancy Ridout	56	9:36.20 Stephen Stoneham	27	MEN 75-79	
5:52.99 Jackie Marr	55	10:03.77 Craig Dewing	28	=====	
6:12.25 Jayne Lambke	59	10:06.13 Dalibor Vavra	25	400 M. INDIVIDUAL MEDLEY	
6:14.82 Barbara Frid	56	10:12.26 Benjamin Morse	26	8:08.05 Raymond Taft	79
6:33.07 S Calnek-Lillestr	55	10:14.83 Erik Crankshaw	26	9:00.99 Dan Miles	77
6:40.20 Aagje Caron	57	10:17.65 Chappie De Haven	29	9:03.26 Richard Smith	78
6:46.17 Joann Leilich	59	MEN 35-39		10:18.50 Bob Acker	77
6:46.51 Lynne Lund	57	=====		10:30.35 William Johnston	79
6:47.46 Sally Bolar	59	50 M. BACKSTROKE		14:15.30 Dan McNeil	75
6:47.85 Susan Livingston	59	29.01 David Lundberg	38	15:59.71 T R Johnson	76
WOMEN 65-69		29.09 Michael Fell	36		
=====		29.20 Jay Yarid	35		
100 M. BACKSTROKE		29.33 Curt La Count	39		
1:36.58 Lavelle Stoinoff	65	29.48 James Lilley	38		
1:43.16 Barbara Jackson	68	30.35 Fritz Lehman	39		
1:49.00 Nancy Macbeth	69	30.39 Brian Pakkala	36		
1:50.39 Ann M Hirsch	67	30.42 Kelley Allen	35		
1:53.96 Mary Mullins	67	30.47 Joe Reinhardt	37		
1:54.60 Jill Coleman	68	30.55 Patrick Herrera	39		
1:55.45 Nancy Durstein	68	MEN 45-49			
1:56.19 Edie Gruender	69	=====			
1:58.30 Barbara Allen	65	200 M. FREESTYLE			
1:58.39 Jacqueline Dunlop	67	2:08.49 Todd Bryan	47		
100 M. BUTTERFLY		2:10.58 Richard Garrett	45		
1:50.31 Ann Hirsch	67	2:10.84 Lee Mench	45		
2:01.36 Nancy Macbeth	69	2:11.62 Craig Burns	45		
2:02.13 Barbara Callison	65	2:12.31 John Spire	46		
2:07.09 Jill Coleman	68	2:14.63 Mike Sherrill	48		
2:11.47 Malchia Olshan	67	2:15.03 Frank Thompson	46		
2:13.99 Joan Campbell	68	2:15.37 Keith Bell	49		
2:31.19 M Hagan	69	2:17.52 Rick Walker	47		
2:33.97 Nancy Meissner	65	2:18.39 Casey Claflin	45		
2:43.19 Mary Williams	66	400 M. FREESTYLE			
WOMEN 65-69		4:30.29 Todd Bryan	47		
=====		4:37.88 Keith Bell	49		
200 M. BREASTSTROKE		4:38.97 Eddie Riach	45		
3:47.24 Ann Hirsch	67	4:42.42 Lee Mench	45		
3:51.10 Lavelle Stoinoff	65	4:46.83 Richard S Garrett	45		
4:00.41 Lilly Kron	66	4:47.80 Rick Walker	47		
4:20.80 Joyce Bahler	68	4:48.41 Frank Thompson	46		
4:25.01 Carol Ferguson	66	4:50.00 Larry Krauser	45		
4:25.28 Barbara Callison	65	4:53.72 Fred Schlicher	49		
4:30.04 Joan Campbell	68	4:56.48 Marvin Schwartz	49		
4:41.07 Hannelore Snyder	68	800 M. FREESTYLE			
4:44.00 Ruth Aaron	69	9:13.29 Todd Bryan	47		
4:54.24 Nancy Durstein	68	9:36.85 Eddie Riach	45		
MEN 25-29		9:52.02 Lee Mench	45		
=====		9:52.16 Keith Bell	49		
200 M. FREESTYLE		9:59.02 Frank Thompson	46		
1:58.55 Jeff Murray	28	9:59.61 Rick Walker	47		
2:01.36 Richard Drewelow	29	10:10.35 Larry Krauser	45		
2:03.94 Dimitar Petrov	27	10:20.95 Peter Brunson	46		
2:04.04 Craig Crawford	28	10:27.01 Marvin Schwartz	49		
2:04.09 Bram Tester	29	10:31.43 Robert Strauss	46		
2:04.66 Luke Hardy	28	1500 M. FREESTYLE			
2:04.76 Andrew Farrell	27	17:31.23 Todd Bryan	47		
2:05.33 Darren Dutto	29	18:05.68 Randy B Williams	47		
2:06.58 Carlos Ochoa	26	18:51.03 Keith Bell	49		
2:07.45 Eric Mix	26	18:51.31 Mike Sherrill	48		
400 M. FREESTYLE		19:06.74 Rick Walker	47		
4:19.83 Dimitar Petrov	27	19:10.36 Paul Feters	45		
4:23.04 William Zolna	29	19:10.98 Dick Stone	46		
4:28.38 Carlos Ochoa	26	19:27.41 Frank Thompson	46		
4:28.75 Luke Hardy	28	19:43.19 David Owen	46		
4:31.52 Eric Mix	26	19:44.28 Joel R Wilson	49		
4:35.42 Carlton Devooght	26	200 M. BUTTERFLY			
4:36.48 Brandon J Carter	27	2:29.28 David Tanner	48		
4:37.32 Jack Thomas	26	2:30.23 Fred Schlicher	49		
4:37.69 James L Taschek	27	2:31.79 Randy B Williams	46		
4:38.26 William Smith	26	2:32.15 Keith Bell	49		
800 M. FREESTYLE		2:37.08 Will Reeves	45		
8:49.44 Dimitar Petrov	27	2:40.38 David Levinson	48		
		2:44.78 Gary Bastie	48		

FINA MASTERS WORLD RECORDS LONG-COURSE METERS

(as of 11-1-98)

***** M E N *****				***** 25-29 *****				***** W O M E N *****			
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	
2:26.01	03-08-98	JPN	EITA TSUMURA	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 *****				***** 30-34 *****				***** W O M E N *****			
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 *****				***** 35-39 *****				***** W O M E N *****			
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	PASCALE VERBAUWEN	BEL	08-09-98	31.71	
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 *****				***** 40-44 *****				***** W O M E N *****			
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 SCHAFFER	100	M.	BRST	DAGMAR HILBIG	GER	06-21-98	1:18.34	
2:29.77	08-23-98	USA	RON SCHAFFER	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 LONG-COURSE METERS

(as of 11-1-98)

***** M E N *****			(as of 11-1-98)			***** W O M E N *****			
***** 45-49 *****			***** 45-49 *****			***** 45-49 *****			
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
30.30	08-25-96	USA	RICHARD BOBER	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
1:14.72	08-28-94	USA	YOSHI OYAKAWA	100	M. BACK	BETSY JORDAN	USA	06-29-97	1:24.45
2:45.93	08-22-93	USA	DONALD BROWN	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.				
2:46.41	08-14-98	USA	JEFF FARRELL	200	M. I.M.	YOSHIKO OSAKI	JPN	09-27-98	3:07.19
6:04.99	08-18-91	USA	GRAHAM JOHNSTON	400	M. I.M.	FLORA CONNOLLY	GBR	07-09-94	6:57.33

FINA MASTERS WORLD RECORDS LONG-COURSE METERS

(as of 11-1-98)

***** 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 SANGUILY	50 M.	BRST	EDITH BOEHM	GER	07-09-94	43.42
1:24.16	08-23-98	USA	MANUEL SANGUILY	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
42.58	- -90	JPN	HIROMU YOSHIMOTO	50 M.	BRST	REGAN KENNER	USA	08-23-98	52.03
1:37.55	09-05-93	ITA	AUGUSTO ROMANO	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

(as of 11-1-98)

***** 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.	MAXINE MERLINO	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 *****		
56.51	08-23-98	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			
				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			
				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.			
***** 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

(as of 11-1-98)

***** RELAY 200 M. FREE - WOMEN *****			***** RELAY 200 M. MEDLEY - WOMEN *****		
100-119 HOLMES-USA	08-28-88	1:53.20	100-119 HOLMES - USA	08-28-88	2:06.67
MARY HOLMES	SUSAN HALFACRE		BETH MAUER	DEB WALKER	
BETH MAUER	TISH BUCHER		TISH BUCHER	MARY HOLMES	
120-159 LONE STAR-USA	08-24-87	1:53.05	120-159 GOLD-USA	08-23-98	2:04.19
MONICA BURK	BRIGITTE HEUER		MARY GARDNER	SUSIE GEYER	
L. MORRISON-CASEY	JACKI HIRSTY		TRACIE MOLL	JAMIE HERRINGTON	
160-199 REGATAS-PER	11-12-95	1:59.32	160-199 LOS ALTOS-USA	05-29-94	2:12.91
C CHANGANAQUI	F CHANGANAQUI		CHRIS BREEDY	SUSAN ROY	
ROSARIO VIVANCO	SANDRA CROUSSE		LAURA VAL	CAROLYN BOAK	
200-239 LOS ALTOS-USA	05-29-94	2:08.96	200-239 SAN DIEGO-USA	05-31-98	2:23.07
LAURA VAL	SUSAN ROY		BETSY JORDAN	CAROLINE KRATTLI	
DELLA SEHORN	CAROLYN BOAK		BARBARA DUNBAR	JACKIE MARR	
240-279 DC MASTERS-USA	08-23-98	2:18.70	240-279 DC MASTERS-USA	08-23-98	2:37.68
BARBARA FRID	JOANN LEILICH		BARBARA FRID	JOANN LEILICH	
BARBARA ZAREMSKI	JAYNE BRUNER		JAYNE BRUNER	BARBARA ZAREMSKI	
280-319 NEW ENGLAND-USA	08-11-96	2:38.52	280-319 KAWASAKI-JPN	07-20-98	3:19.17
CLARA WLAKER	BILLIE BURRILL		MIDORI KINJO	AKIKO HATTORI	
PETEY SMITH	DIANE REED		KIYOKO KOZU	MIEKO KAMOSHITA	
320-359 WALNUT CRK-USA	08-13-98	3:49.73	320-359 WALNUT CRK-USA	08-10-98	4:19.11
SALLY JOY	JAE HOWELL		SALLY JOY	JAE HOWELL	
JEAN DURSTON	MARY JANE REEVE		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	100-119 POWERS-AUS	04-07-90	1:49.84
JANNE VIRTANEN	ARI JAACKOLA		BRAD COOPER	NEIL GYNTHOR	
JAANE VIRTANEN	TOMMY RUNDGREN		ANKER BRODERSEN	ANGUS WADDELL	
120-159 LONE STAR-USA	07-16-86	1:37.43	120-159 RED FISH-SUI	07-09-94	1:48.75
DAVID HAGUE	JAMES MONTGOMERY		PATRICK FERLAND	ETIENNE DAGON	
TRIP HEDRICK	BUCK SMITH		THEOPHILE DAVID	STEFAN VOLERY	
160-199 HOLMES - USA	08-11-90	1:39.27	160-199 BAYLOR/LSTR-USA	07-09-94	1:53.79
JAMES LILLEY	C. MILTENBERGER		MEL WASH	BERRY HAMILTON	
RICHARD ABRAHAMS	TIMOTHY GARTON		TRIPP HEDRICK	DAVID HAGUE	
200-239 OLYMPIC CLB-USA	06-29-97	1:45.19	200-239 OLYMPIC CLB-USA	07-09-94	1:58.50
STEVE CLARK	ROBERT STRAND		TIM BIRNIE	ROBERT STRAND	
TIM BIRNIE	JAMES ELDER		RICHARD BASSI	JAMES ELDER	
240-279 OLYMPIC CLUB	06-29-97	1:54.45	240-279 GOLD - USA	08-23-98	2:15.93
RICHARD BASSI	JAMES KRUEGER		DAVID MCINTYRE	HERB KERN	
BILL VAN HORN	PHILLIP CHAPMAN		JOEL BURNS	CAV CAVANAUGH	
280-319 SHUEI-JPN	09-15-92	2:10.18	280-319 MAVERICK - USA	08-18-97	2:33.50
SHUICHI MURAYAMA	JUZO TSUBOTA		PAUL HUTINGER	ROBERT MACDONALD	
ISAMU TAMURA	KEIJIRO NAKAMURA		JOSEPH KURTZMAN	ALAN MALONEY	
320-359 COAST - USA	08-11-96	2:35.13	320-359 COAST - USA	08-13-95	3:06.15
LOUIS GIBERSON	WOODROW BOWERSOCK		BRION WINSHIP	WALTER PFEIFFER	
WALTER PFEIFFER	R CHRISTIANS		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	120-159 GOLD-USA	08-23-98	1:57.30
TODD PACE	TRACIE MOLL		CRAIG CRAWFORD	SETH VAN NEERDEN	
JAMIE HERRINGTON	KURT WIENANTS		TRACIE MOLL	JAMIE HERRINGTON	
160-199 ROCKY MT.-USA	08-23-98	1:45.83	160-199 TTEX-USA	08-23-98	2:01.22
KATHY GARNIER	LAUREEN WELTING		SHARON WENCEL	DAVID GUTHRIE	
RICHARD ABRAHAMS	JAMES LILLEY		BRUCE WENCEL	S NEILSON-BELL	
200-239 LOS ALTOS - USA	07-09-94	1:55.50	200-239 TAM - USA	08-23-98	2:08.56
EDWARD CAZALET	LAURA VAL		RICHARD BURNS	KENNETH FROST	
ARLENE PROEBSTING	ROBERT PROEBSTING		LAURA VAL	NANCY RIDOUT	
240-279 SAN DIEGO-USA	06-29-97	2:07.26	240-279 OLYMPIC CLUB	06-29-97	2:27.14
DONALD BAKER	JEANNE LITTLE		MARGERY MEYER	DANIELLE OGIER	
JACKIE MARR	BILL EARLEY		STEVE CLARK	PHILLIP CHAPMAN	
280-319 SOLK HELLAS-SWE	06-23-98	2:27.21	280-319 HOLMES - USA	- -88	2:37.98
BRITT GRILLI	NILS FERM				
PETER BERGENGREN	KERSTIN GJORES				
320-359 DC MASTERS-USA	08-01-93	3:03.15	320-359 RIO MASTERS-BRA	11-26-95	3:54.87
NANCY CLARK	ANNE WALKER		ALBERTO MIBIELLI	LUZIA CARACCILOLO	
KELLEY LEMMON	DAVID MCAFFEE		MARIA LENK	GASTAO FIGUEIREDO	

FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

(as of 11-1-98)

***** M E N *****			***** 25-29 *****			***** W O M E N *****			
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	DIANE GRANER	USA	10-15-89	30.63
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	RIA WILLEMSE	NED	- -90	1:13.60
2:20.43	12-14-96	USA	ABRAHAM SOLANO	200 M.	BRST	HELEN GORMAN	GBR	10-26-97	2:39.98
25.20	03-16-97	SWE	JONAS AKESSON	50 M.	FLY	SHEILA TAORMINA	USA	03-31-96	28.68
56.11	10-15-95	USA	MARTIN HERRMANN	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.	MONIQUE RODAHL	NZL	06-04-89	1:06.84
2:05.93	12-10-95	USA	JOHN KEPPELER	200 M.	I.M.	BIRGIT DEURING	GER	11-03-96	2:23.47
4:26.79	12-10-95	USA	JOHN KEPPELER	400 M.	I.M.	BIRGIT DEURING	GER	11-03-96	5:04.56
***** M E N *****			***** 30-34 *****			***** W O M E N *****			
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
2:24.52	05-22-95	CAN	SERGE SCORE	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
***** M E N *****			***** 35-39 *****			***** W O M E N *****			
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
8:44.90	03-31-96	SUI	JAMES FURRER	800 M.	FREE	LYNN MARSHALL	CAN	10-05-96	9:21.94
16:47.00	09-13-97	ARG	ALEJANDRO LECOT	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
2:10.01	10-10-93	USA	WILLIAM SPECHT	200 M.	BACK	K PIPES-NEILSEN	USA	12-14-97	2:14.10
28.82	04-04-98	USA	WALLY DICKS	50 M.	BRST	LESLIE OSBORNE	USA	10-15-89	34.63
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	DAGMAR HILBIG	GER	04-23-95	2:44.81
25.89	10-10-93	USA	WILLIAM SPECHT	50 M.	FLY	BARBRA GELLRICH	GER	08-15-98	29.81
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	06-15-97	1:06.57
2:10.84	10-26-97	GBR	ROBIN BREW	200 M.	I.M.	K PIPES-NEILSEN	USA	06-15-97	2:23.15
4:40.84	10-26-97	GBR	ROBIN BREW	400 M.	I.M.	K PIPES-NEILSEN	USA	12-14-97	4:52.85
***** M E N *****			***** 40-44 *****			***** W O M E N *****			
24.37	04-29-98	JPN	BRENT BARNES	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	JENNY WHITELEY	AUS	01-24-98	2:13.85
4:09.31	06-25-95	USA	HESS YNTEMA	400 M.	FREE	LAURA VAL	USA	12-10-95	4:42.94
8:49.83	06-25-95	USA	HESS YNTEMA	800 M.	FREE	JENNY WHITELEY	AUS	04-26-98	10:03.79
16:51.71	06-25-95	USA	HESS YNTEMA	1500 M.	FREE	KATHERINE BRANCH	USA	11-02-97	18:59.45
28.77	03-18-95	GER	LACI PERENYI	50 M.	BACK	LAURA VAL	USA	11-14-93	31.55
1:03.16	12-10-95	USA	CLAY EVANS	100 M.	BACK	LAURA VAL	USA	10-15-95	1:10.45
2:16.72	05-22-95	CAN	JOHN MARCH	200 M.	BACK	LAURA VAL	USA	12-10-95	2:34.04
29.86	09-28-97	SWE	GLEN CHRISTIANSEN	50 M.	BRST	NAOMI HEIMBACH	JPN	05-19-96	36.22
1:06.50	12-14-97	USA	RON SCHAFFER	100 M.	BRST	JUDY WOODWARD	CAN	04-04-98	1:18.85
2:25.58	12-14-97	USA	RON SCHAFFER	200 M.	BRST	HIROKO ISHII	JPN	05-24-98	2:51.73
26.35	12-11-95	USA	RICK ABBOTT	50 M.	FLY	LAURA VAL	USA	10-15-95	30.17
58.61	12-14-97	USA	JAMES BELARDI	100 M.	FLY	LAURA VAL	USA	11-14-93	1:06.86
2:08.46	12-14-97	USA	JAMES BELARDI	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
2:15.07	10-13-96	USA	SPENCER ELDRED	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

FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

(as of 11-1-98)

***** 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	10-13-97	4:51.77
8:56.08	10-13-96	USA	TIM BRODERICK	800	M. FREE	DANIELLE OGIER	USA	11-23-97	10:08.72
17:24.70	12-14-97	USA	JIM MCCONICA	1500	M. FREE	BARBARA DUNBAR	USA	10-27-96	19:14.97
29.33	03-12-89	USA	ROBERT SMITH	50	M. BACK	LAURA VAL	USA	10-13-96	32.39
1:04.94	12-10-95	USA	PETER O'KEEFFE	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	02-06-98	2:57.70
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
2:22.79	10-19-97	USA	TIM BRODERICK	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	10-19-97	5:43.48
***** M E N *****			50-54 *****			***** W O M E N *****			
25.72	12-07-97	USA	DANIEL ROGACKI	50	M. FREE	SUSANA BARKLEY	ESP	05-14-95	30.30
56.63	10-13-96	USA	KEEFE LOOWIG	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	01-25-98	2:27.70
4:36.29	05-24-96	BAR	ANGUS EDGHILL	400	M. FREE	DIANNE FOSTER	CAN	01-25-98	5:07.78
9:28.84	05-24-96	BAR	ANGUS EDGHILL	800	M. FREE	CAROLYN BOAK	USA	10-13-96	11:07.78
18:18.50	05-03-98	NED	D UYTENBOGAART	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
2:24.18	12-14-97	USA	TIM BIRNIE	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	ERNA LOSKAMP	NED	- -92	1:25.73
2:34.71	12-15-96	USA	ROBERT STRAND	200	M. BRST	DIANE FORD	GBR	10-17-93	3:06.63
28.35	05-11-97	GER	BERND SCHRODER	50	M. FLY	DIANA TODD	USA	12-11-94	33.85
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
5:18.19	12-14-97	USA	ANDREW MCPHERSON	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 GALLETLY	400	M. FREE	ARDETH MUELLER	USA	11-03-96	5:15.91
9:47.45	10-26-97	GBR	SANDY GALLETLY	800	M. FREE	JEN THOMASSON	AUS	08-29-98	11:04.01
19:18.99	11-02-97	USA	JACK GEOGHEGAN	1500	M. FREE	JEN THOMASSON	AUS	08-29-98	20:49.11
31.92	03-15-98	HUN	JOSZEF CSIKANY	50	M. BACK	SATOKO TAKEUJI	JPN	05-18-97	35.88
1:10.88	10-23-94	NZL	BARRY YOUNG	100	M. BACK	SATOKO TAKEUJI	JPN	05-18-97	1:19.61
2:33.21	10-23-94	NZL	BARRY YOUNG	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
2:49.96	12-10-95	USA	DRURY GALLAGHER	200	M. BRST	BONNIE PRONK	CAN	11-22-97	3:08.87
29.10	03-07-98	GER	BERND SCHRODER	50	M. FLY	ARDETH MUELLER	USA	11-02-97	33.66
1:06.66	03-15-98	GER	BERND SCHRODER	100	M. FLY	ARDETH MUELLER	USA	11-02-97	1:18.75
2:36.72	03-15-98	JPN	KOJI IWAMOTO	200	M. FLY	ARDETH MUELLER	USA	11-03-96	2:55.05
1:09.59	05-09-98	GER	BERND SCHRODER	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 GALLETLY	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 STOINOFF	USA	03-14-93	5:38.06
10:27.62	06-25-95	USA	GRAHAM JOHNSTON	800	M. FREE	LAVELLE STOINOFF	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	FLORA CONNOLLY	GBR	04-23-94	3:19.67
30.34	11-05-95	USA	BOB BAILIE	50	M. FLY	YOSHIKO OSAKI	JPN	05-10-98	36.05
1:14.21	10-26-97	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.	JUDIE OLIVER	CAN	05-25-92	6:50.55

FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

(as of 11-1-98)

***** M E N *****		85-89 *****		***** W O M E N *****	
38.82	03-15-97	GER	R REINSTADTLER	50 M. FREE	JULIA DOLCE USA 10-08-95 51.99
1:36.18	03-16-97	GER	R REINSTADTLER	100 M. FREE	JULIA DOLCE USA 10-08-95 2:05.74
3:44.09	03-14-97	GER	R REINSTADTLER	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	JULIA DOLCE USA 10-08-95 22:22.74
32:20.20	12-11-88	USA	GUS LANGNER	1500 M. FREE	JULIA DOLCE USA 10-08-95 42:10.95
47.17	03-01-97	GER	R REINSTADTLER	50 M. BACK	DOROTHY WESTON GBR 03-29-98 1:10.95
1:52.03	03-16-97	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	RINA DAVOGLIO ITA 02-09-97 5:23.00
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
4:46.64	10-18-98	USA	WALTER PFEIFFER	200 M. BRST	MARTI GOGNIAT USA 12-14-97 5:59.36
52.84	06-14-98	USA	WALTER PFEIFFER	50 M. FLY	JEWEL COOKE USA 02-04-96 1:24.22
2:05.50	06-14-98	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.	DOROTHY WESTON GBR 03-29-98 2:32.68
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	VERA FERNANCE AUS - -89 1:55.07
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	YOSHI KUCHIBA JPN 05-10-98 1:37.50
3:01.95	12-17-93	USA	GUS LANGNER	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	
				100 M. FLY	
				200 M. FLY	
2:51.05	02-22-98	USA	JIM PENFIELD	100 M. I.M.	
				200 M. I.M.	
				400 M. I.M.	
***** M E N *****		95-99 *****		***** W O M E N *****	
				50 M. FREE	MARGE ANDERSON CAN 04-04-98 2:13.55
				100 M. FREE	
				200 M. FREE	
				400 M. FREE	
23:32.20	07-16-98	USA	GUS LANGNER	800 M. FREE	
				1500 M. FREE	
				50 M. BACK	MARGE ANDERSON CAN 04-04-98 2:16.48
				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.	
***** 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.	

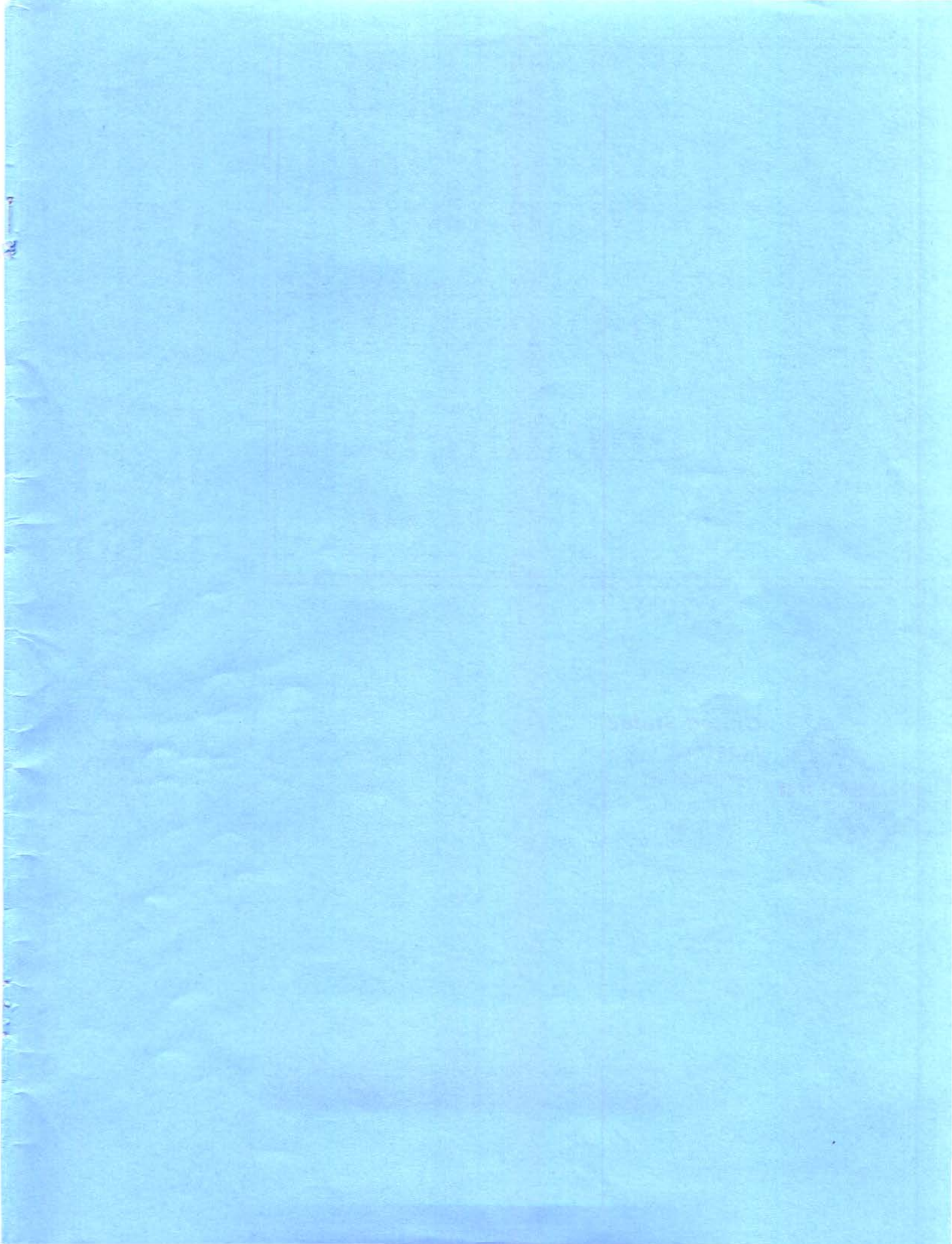
FINA MASTERS WORLD RECORDS SHORT-COURSE METERS

(as of 11-1-98)

***** RELAY 200 M. FREE - WOMEN *****	***** RELAY 200 M. MEDLEY - WOMEN *****
100-119 MICHIGAN-USA DYNE BURRELL MARY MUETING	100-119 SPENCER-GBR HELEN JAMESON SIOBHAN HARTLEY
120-159 SAN DIEGO-USA K.PIPES-NEILSEN MATHILDE BOUWMA	120-159 SAN DIEGO-USA VICKY DAVIDSON KARLYN PIPES
160-199 SAN DIEGO-USA BARBARA DUNBAR SALLY KARRASCH	160-199 SAN DIEGO MARILYN FINK BARBARA DUNBAR
200-239 SG NEUHOLLN-GER MARGA SCHULZE BRIGITTE MERTEN	200-239 SG NEUHOLLN-GER BRIGITTE MERTEN ELKE SCHARP
240-279 NEW ENGLAND-USA CLARA WALKER BILLIE A BURRILL	240-279 SOLK HELLAS-SWE KERSTIN GJORES HARRIET DEGIORGIO
280-319 KAWASAKI-JPN MIEKO KAMOSHITA MIDORI KINJO	280-319 KAWASAKIITO-JPN MIDORI KINJO KIYOKO KOZU
320-359 ST PETE - USA MARIAN MCKECHNIE FRANCES CICHANSKI	320-359 SAN MATEO-USA HELEN ROUMASSET ZADA TAFT

***** RELAY 200 M. FREE - M E N *****	***** RELAY 200 M. MEDLEY - M E N *****
100-119 EL SEGUNDO-USA FRANK WATTLES MARCEL RINZLER	100-119 EL SEGUNDO-USA DEREK ROBINSON MARCEL RINZLER
120-159 BAYLOR/STAR-USA RICHARD HESS M.RHODENBAUGH	120-159 BAYLOR/STAR-USA JAY YARID BOBBY PATTEN
160-199 COLONIALS-USA CHARLES NORELLI MICHAEL SLENKER	160-199 MINNESOTA-USA SCOTT TRIPPS RAY ELLIS
200-239 S CAL AQUAT-USA FRED HUBBELL FRANS NELSON	200-239 OLYMPIC CLB-USA TIM BIRNIE RICHARD BASSI
240-279 BUCKEYE-USA SID HALL THOMAS OLANDER	240-279 GOLD COAST-USA DAVID MCINTYRE JOEL BURNS
280-319 SHUEI-JPN KEIJIRO NAKAMURA ISAMU TAMURA	280-319 FL MAVERICK-USA PAUL HUTINGER JOSEPH KURTZMAN
320-359 COAST - USA LOUIS GIBERSON BOB CHRISTIANS	320-359 YOKYO SS-JPN KISABURO WADA Y MIYAMOTO

***** RELAY 200 M. FREE - MIXED *****	***** RELAY 200 M. MEDLEY - MIXED *****
100-119 EL SEGUNDO-USA BERT BERGEN MARCEL RINZLER	100-119 EL SEGUNDO-USA D GRANER GALLAS DEREK ROBINSON
120-159 ST.PETE-USA LISA SUMMERS MCKEITHEN-BUSSEY	120-159 LAKESIDE-USA WILLIAM TINGLEY MICHAEL HIGGS
160-199 SAN DIEGO-USA BETH KNIGHT LARRY CARTWRIGHT	160-199 W HOLLYWOOD-USA ANDREA DEVUONO MICHAEL MEALIFFE
200-239 LINCOLN-USA PAUL HUTINGER COLLEEN MALMEN	200-239 S CAL AQUAT-USA BONNIE ADAIR GARY LANGENDOEN
240-279 SAN DIEGO-USA DONALD BAKER BILL EARLEY	240-279 N.CAROLINA-USA JEANNIE MITCHELL JOHN KORTHEUER
280-319 OJAI S BAR-USA FRANK PIEMME RUTH BAAR	280-319 100NOKAI-JPN KAZUKO TAGUCHI AKIRA ITO
320-359 IBARAGI SC-JPN KENJIRO KAKEI RITSUKO HAYASHIDA	320-359 RIO MASTERS-BRA ALBERTO MIBIELLI MARIA LENK





**United States
Masters
Swimming**
Betsy Durrant
211 Sixty-Sixth St.
Virginia Beach, VA 23451-2040

UNITED STATES MASTERS SWIMMING 1998 TOP TEN SHORT COURSE METERS

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