

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

**1991
Top Ten
Short Course Meters
and
World Records
Short Course Meters
Long Course Meters**





TOP TEN SHORT COURSE METERS

2:50.04 SANDY GOLDING 27	2:54.68 MARCIA CLEVELAND 27	2:21.90 GRACIE GODDARD 31	2:35.25 KIMBERLY ARATA 31
2:50.07 JENNIFER UEBELE 26	2:54.70 KAREN HEANEY 27	2:24.11 JUDITH MURPHY 32	2:37.70 NANCY MITCHELL 30
50 M. BRST WOMEN 25-29	3:11.56 P.HAEBERLIN 28	2:24.29 AMY POPE 31	2:39.74 BETH O'CONNOR 30
34.36 TRACY MCFARLANE 91	3:21.34 JONI SAITO 27	2:27.14 KATHY GARNIER 30	2:57.18 SUSAN ROESCH 33
34.36 TRACEY MC FARLANE 25	100 M. I.M. WOMEN 25-29	2:27.14 JEAN DYER 31	2:59.20 KAREN BUNCH 34
36.41 TRISH POWELL 25	1:08.16 BETH O'CONNOR 88	2:29.31 COLLEEN DRISCOLL 33	3:04.60 LESLIE ENANDER 30
37.63 VANESSA RICHEY 25	1:08.98 VANESSA RICHEY 25	400 M. FREE WOMEN 30-34	3:12.99 JULIE M PAQUE 33
37.88 J.EDMUNDSON 27	1:09.54 TRACEY MC FARLANE 25	4:31.88 BETH KNIGHT 90	3:13.90 E.SHANULIN 34
37.98 ELLEN ATKINSON 27	1:09.71 DIANE GRANER 27	4:53.36 AMY POPE 31	50 M. BRST WOMEN 30-34
38.35 BETH SCHEIMANN 29	1:10.69 JUNE FORD 29	4:56.34 KIMBERLY ARATA 31	35.25 VAL KERR-HAUGE 91
38.74 KAREN HEANEY 27	1:11.47 TRISH POWELL 25	4:58.79 LESLIE J HENSHAW 31	35.25 VAL KERR-HAGUE 30
39.06 LISA FLANAGAN 28	1:11.77 KAREN BURTON 29	4:59.14 BETH O'CONNOR 30	36.55 LISA BENNETT 34
39.92 ANDREA DEVIUONO 29	1:12.49 ANDREA DEVIUONO 29	5:13.23 COLLEEN DRISCOLL 33	36.99 KAREN MELICK 34
39.93 LORI SCHMIDT 28	1:12.83 JUDY HUPP 27	5:14.14 Nanci SIROIS 32	37.75 LESLIE COOPER 31
100 M. BRST WOMEN 25-29	1:12.99 J.EDMUNDSON 27	5:14.35 LINDA A LIPINSKI 32	38.20 JEANNE MESSINA 31
1:14.82 TRACY MCFARLANE 91	1:13.24 ANNA PLANTIER 28	5:22.33 KATHY PRIDE 31	38.87 ROBIN DAVIS 31
1:14.82 TRACEY MC FARLANE 25	200 M. I.M. WOMEN 25-29	5:25.46 BARBARA WITTE 30	39.09 PAULA HAMP 31
1:18.11 TRISH POWELL 25	2:24.07 DIANE GRANER 89	5:27.08 LIBBY NEUFELD 34	39.10 PAM DRAFTS 34
1:19.23 GINA GATTI 28	2:25.97 DIANE GRANER 27	800 M. FREE WOMEN 30-34	39.42 MICHELLE HILL 30
1:21.06 J.EDMUNDSON 27	2:29.47 TRACEY MC FARLANE 25	9:17.55 BETH KNIGHT 90	39.48 JUDITH MURPHY 32
1:22.89 LISA FLANAGAN 28	2:30.49 KAREN BURTON 29	9:51.60 AMY POPE 31	100 M. BRST WOMEN 30-34
1:23.04 KARYN HEANEY 27	2:32.02 VANESSA RICHEY 25	10:04.50 DIANA DOLAN-EVANS 33	1:18.13 LISA BENNETT 89
1:25.06 ELLEN ATKINSON 27	2:35.01 TRISH POWELL 25	10:07.81 MARGUERITE MEYER 32	1:20.03 NANCY MITCHELL 30
1:25.08 SUSAN STOHRER 28	2:35.37 GINA GATTI 28	10:11.32 BETH O'CONNOR 30	1:20.50 BONNIE RHODES 31
1:25.12 JANA ZAMBONI 25	2:37.60 ANDREA J. DEVIUONO 29	10:36.98 M.CHARLAP 31	1:20.62 LISA BENNETT 34
1:25.63 BETH SCHEIMANN 29	2:38.52 VICKY DAVIDSON 26	10:50.90 MELINDA SCHMITT 33	1:20.72 KAREN MELICK 34
200 M. BRST WOMEN 25-29	2:38.94 J.EDMUNDSON 27	10:57.00 COLLEEN DRISCOLL 33	1:22.73 LESLIE COOPER 31
2:47.08 GINA GATTI 89	2:42.12 ANNA PLANTIER 28	11:03.08 SUSAN D NOLTE 30	1:22.81 JANN GIRARD 31
2:48.68 JUNE FORD 29	400 M. I.M. WOMEN 25-29	11:18.39 JULIE M PAQUE 33	1:25.54 COKIE LEPINSKI 32
2:51.45 GINA GATTI 28	5:18.02 KAREN BURTON 91	11:22.43 BARBARA WITTE 30	1:27.05 PAM DRAFTS 34
2:55.66 KARYN HEANEY 27	5:18.02 KAREN BURTON 29	1500 M. FREE WOMEN 30-34	1:27.23 PAULA HAMP 31
2:57.20 LISA FLANAGAN 28	5:28.86 ANDREA DEVIUONO 29	18:24.43 BONNIE DURDY 89	1:27.63 DARBY M ELLEMAN 31
2:59.90 JENNIFER UEBELE 26	5:32.12 ANNA PLANTIER 28	18:30.13 AMY POPE 31	200 M. BRST WOMEN 30-34
3:05.29 ANNA PLANTIER 28	5:37.20 J.EDMUNDSON 27	18:59.99 MARGUERITE MEYER 32	2:50.96 KAREN MELICK 91
3:05.46 JANA ZAMBONI 25	5:37.27 EILEEN LOVELESS 25	19:11.54 DIANA DOLAN-EVANS 33	2:50.96 KAREN MELICK 34
3:06.96 GLORIA NEMET 27	5:45.07 KAREN HEANEY 27	19:56.66 LESLIE J HENSHAW 31	2:51.75 BONNIE RHODES 31
3:08.53 BETH SCHEIMANN 29	5:47.60 JENNIFER UEBELE 26	20:09.68 M.CHARLAP 31	2:54.93 LESLIE COOPER 31
3:12.14 JONI SAITO 27	5:51.70 LISA FLANAGAN 28	20:19.64 MELINDA SCHMITT 33	2:56.94 LISA BENNETT 34
50 M. FLY WOMEN 25-29	5:56.24 GLORIA NEMET 27	20:47.27 COLLEEN DRISCOLL 33	3:07.07 JUDITH MURPHY 32
29.13 BETH O'CONNOR 88	5:57.21 CHERYL KUPAN 27	20:56.80 SUSAN D NOLTE 30	3:09.77 KATHLEEN PEARSON 33
30.39 VANESSA RICHEY 25	50 M. FREE WOMEN 30-34	21:34.06 JULIE M PAQUE 33	3:10.63 KATHY PRIDE 31
30.84 JUNE FORD 29	26.55 SANDY NEILSON 87	21:45.06 CATHY COPELAND 32	3:11.02 PAULA HAMP 31
31.41 MARGARET MORTELL 27	27.56 KRISTIN HENDERSON 30	50 M. BACK WOMEN 30-34	3:13.66 VICKY SANDBERG 34
31.63 TRACEY MC FARLANE 25	27.71 BETH KNIGHT 31	32.24 L. HASSELQUIST 89	3:17.50 Nanci SIROIS 32
31.85 JUDY HUPP 27	28.15 JENNY CAINE 30	32.83 LINDLE DOUGHTY 32	50 M. FLY WOMEN 30-34
31.97 KAREN PETERSON 27	28.81 KIMBERLY ARATA 31	33.33 ZENA HERRMANN 32	30.20 S. NEILSON-BELL 88
32.51 VICKI MARSH 28	28.88 PAM DRAFTS 34	33.92 KIMBERLY ARATA 31	30.33 KRISTIN HENDERSON 30
32.81 ELLEN ATKINSON 27	28.93 KATHY GARNIER 30	35.33 JANN BUTLER 31	31.48 JENNIFER BARRY 30
32.89 ANDREA DEVIUONO 29	28.96 GRACIE GODDARD 31	36.34 PATRICIA LYNCH 30	31.51 VAL KERR-HAGUE 30
32.92 NANCY SAWYER 25	29.03 JUDITH MURPHY 32	36.51 LESLIE A RAFOTH 34	31.72 GRACIE GODDARD 31
100 M. FLY WOMEN 25-29	29.40 MARY HUBER 30	36.59 J.BOURGUIGNON 32	32.19 LINDLE DOUGHTY 32
1:06.31 DIANE GRANER 89	29.45 JANN GIRARD 31	36.92 JANICE LOPEZ 31	32.21 KIMBERLY ARATA 31
1:06.57 VANESSA RICHEY 25	100 M. FREE WOMEN 30-34	37.08 ROBIN KALMAN 32	32.41 NANCY MITCHELL 30
1:06.70 DIANE GRANER 27	57.35 S. NEILSON-BELL 88	37.26 GRACIE GODDARD 31	32.45 LIBBY NEUFELD 34
1:07.26 JUNE FORD 29	59.95 BETH KNIGHT 31	100 M. BACK WOMEN 30-34	32.99 PAULA HAMP 31
1:09.97 VICKY DAVIDSON 26	1:00.85 JENNY CAINE 30	1:10.41 LINDLEY DOUGHTY 91	33.57 PATRICIA THOMAS 32
1:10.36 TRISH POWELL 25	1:02.66 KIMBERLY ARATA 31	1:10.41 LINDLE DOUGHTY 32	100 M. FLY WOMEN 30-34
1:10.72 TRACEY MC FARLANE 25	1:02.67 GRACIE GODDARD 31	1:10.68 ZENA HERRMANN 32	1:07.34 TAMMY BENNETT 88
1:10.81 ANDREA J. DEVIUONO 29	1:04.07 BETH O'CONNOR 30	1:11.47 KIMBERLY ARATA 31	1:07.81 BONNIE RHODES 31
1:10.92 KAREN BURTON 29	1:04.16 KATHY GARNIER 30	1:18.75 BARBARA NATHAN 31	1:09.12 BETH O'CONNOR 30
1:13.00 KAREN PETERSON 27	1:04.68 MARY HUBER 30	1:20.51 SUSAN ROESCH 33	1:10.08 KIMBERLY ARATA 31
1:13.72 ANNA PLANTIER 28	1:05.50 ZENA HERRMANN 32	1:20.92 LESLIE A RAFOTH 34	1:10.32 NANCY MITCHELL 30
200 M. FLY WOMEN 25-29	1:05.67 DARBY M ELLEMAN 31	1:21.30 ROBIN KALMAN 32	1:11.98 LINDLE DOUGHTY 32
2:28.67 KAREN BURTON 91	1:06.16 JEANNE MESSINA 31	1:21.72 J.BOURGUIGNON 32	1:16.27 LESLIE J HENSHAW 31
2:24.44 JUNE FORD 29NV	200 M. FREE WOMEN 30-34	1:21.87 SUSAN BLATTNER 34	1:16.42 KAREN LODGE 31
2:28.67 KAREN BURTON 29	2:06.83 SANDY NEILSON 87	1:21.91 VICKY SANDBERG 34	1:18.43 DIANA TATE 30
2:39.83 DIANE MUNTZER 28	2:11.47 BONNIE RHODES 31	200 M. BACK WOMEN 30-34	1:18.73 ELIZABETH SILVER 31
2:44.09 JENNIFER UEBELE 26	2:18.48 KIMBERLY ARATA 31	2:32.32 ZENA HERRMANN 91	1:19.60 BARBARA WITTE 30
2:44.15 EILEEN LOVELESS 25	2:20.06 ZENA HERRMANN 32	2:32.32 ZENA HERRMANN 32	200 M. FLY WOMEN 30-34
2:48.44 ANN SCHWERZLER 25	2:21.21 MARGUERITE MEYER 32	2:32.96 LINDLE DOUGHTY 32	2:26.98 NANCY MITCHELL 91

TOP TEN SHORT COURSE METERS

2:26.98 NANCY MITCHELL 30	2:14.26 LAURA B VAL 39	200 M. BACK WOMEN 35-39	1:38.11 GLORIA BRITTON 38
2:56.09 LINDLE DOUGHTY 32	2:19.69 DANIELLE OGIER 38	2:35.03 KAREN FARNSWORTH 91	1:42.18 DARLENE DRUMM 38
3:00.78 BARBARA WITTE 30	2:25.23 JEAN SPINELLI 35	2:35.03 KAREN FARNSWORTH 35	200 M. FLY WOMEN 35-39
3:08.19 VICKY SANDBERG 34	2:25.29 K.TREBESINER 38	2:36.72 LAURA B VAL 39	2:28.96 LAURA VAL 91
3:08.48 ANITA M WALKER 34	2:29.88 JOANNE BOWSER 39	2:41.10 MARY ANN STEVENS 38	2:28.96 LAURA B VAL 39
3:13.08 KAREN FORTOUL 30	2:30.98 JANE SCHAPPERT 36	2:50.74 JOANNE BOWSER 37	2:40.26 KAREN FARNSWORTH 35
3:46.14 KATHY TRITSCHLER 31	2:34.26 MELISSA HANSON 39	2:52.73 JEAN SPINELLI 35	3:08.10 S.LEE-SHERIDAN 39
4:24.15 MARGARET MEEHAN 34	2:34.26 KATIE MCNAMARA 36	2:56.62 K.TREBESINER 38	3:10.66 WENDY CARR 36
100 M. I.M. WOMEN 30-34	2:35.73 LESLIE MOLONY 38	2:58.50 CYNTHIA MALTRY 36	3:12.92 REBECCA PYLE 35
1:07.78 S. NEILSON-BELL 88	2:37.48 DIANA STEWART 36	3:03.11 MARY DOWLEN 36	3:23.85 MARGARET HAIR 35
1:10.26 BONNIE RHODES 31	400 M. FREE WOMEN 35-39	3:07.89 SUZY REIERSON 39	3:47.69 PAT BAYERS 37
1:12.41 NANCY MITCHELL 30	4:51.04 DANIELLE OGIER 90	3:09.18 NANCY BAUER 35	3:48.53 MARY DOWLEN 36
1:13.78 LISA BENNETT 34	4:52.16 KAREN FARNSWORTH 35	50 M. BRST WOMEN 35-39	3:56.74 LAURA MELDRUM 38
1:13.91 KIMBERLY ARATA 31	5:00.24 DANIELLE OGIER 38	34.63 LESLIE OSBORNE 89	3:58.05 ANITA CHATIGNY 36
1:14.01 JANN GIRARD 31	5:16.36 K.TREBESINER 38	38.18 KATIE MCNAMARA 36	100 M. I.M. WOMEN 35-39
1:14.96 MARY CURL 34	5:19.71 JOANNE BOWSER 37	38.73 DANIELLE OGIER 38	1:11.55 JACKI HIRSTY 89
1:16.72 JENNIFER BARRY 30	5:30.09 KATIE MCNAMARA 36	39.19 GINNY BROWN 36	1:11.81 LAURA B VAL 39
1:17.74 KAREN LODGE 31	5:38.10 ANITA ALLEN 37	39.57 C.SHIGAKI-IWAMOTO 36	1:13.62 KAREN FARNSWORTH 35
1:18.61 LESLIE J HENSHAW 31	5:44.05 MARGARET HAIR 36	39.66 MANDY MC CLELLAN 36	1:13.81 DONNA NEARY 36
1:18.70 PAM DRAFTS 34	5:48.20 ELIN ZANDER 36	40.50 MELISSA HANSON 39	1:16.19 DANIELLE OGIER 38
200 M. I.M. WOMEN 30-34	5:50.76 DEBBIE STEPHEN 39	40.64 MARLA MICHELSEN 36	1:16.29 C.SHIGAKI-IWAMOTO 36
2:27.11 SANDY NEILSON 87	5:51.12 J.SANTILLANO 38	41.10 CATHERINE KOHN 38	1:16.32 MARY HAMILTON 37
2:27.61 BONNIE RHODES 31	800 M. FREE WOMEN 35-39	41.57 KIM CROUNSE 35	1:17.62 KATIE MCNAMARA 36
2:34.55 KIMBERLY ARATA 31	9:46.95 LAURA VAL 87	41.61 MARY HAMILTON 37	1:18.21 CYNTHIA MALTRY 36
2:35.65 NANCY MITCHELL 30	11:03.59 MARCIA S DUGGER 35	100 M. BRST WOMEN 35-39	1:18.55 CATHERINE KOHN 38
2:38.94 JANN GIRARD 31	11:09.30 GAYLE BENTY 39	1:16.70 LESLIE OSBORNE 89	1:19.45 MARILYN AS FINK 36
2:40.80 MARY CURL 34	11:15.69 K.TREBESINER 38	1:24.29 DONNA NEARY 36	200 M. I.M. WOMEN 35-39
2:41.71 BETH KNIGHT 31	11:37.78 J.SANTILLANO 38	1:24.48 KATIE MCNAMARA 36	2:35.52 CATHERINE KOHN 89
2:43.60 LISA BENNETT 34	11:41.20 ANITA ALLEN 37	1:27.97 C.SHIGAKI-IWAMOTO 36	2:38.86 DONNA NEARY 36
2:43.61 LESLIE COOPER 31	12:03.33 MARTHA GALGANSKI 36	1:29.59 LINDA BUSCH 39	2:39.59 KAREN FARNSWORTH 35
2:47.36 KAREN LODGE 31	12:15.15 K.KINKADE-SCHALL 35	1:29.96 CATHERINE KOHN 38	2:40.76 DANIELLE OGIER 38
2:49.44 NANJI SIROIS 33	12:36.90 LAURA SKOTNICKI 37	1:31.11 MARLA MICHELSEN 36	2:40.97 MARY ANN STEVENS 38
400 M. I.M. WOMEN 30-34	12:39.53 NANCY MILNER 39	1:32.23 KIM CROUNSE 35	2:53.19 KATIE MCNAMARA 36
5:13.84 BONNIE RHODES 91	13:20.01 SUSAN MURRAY 35	1:32.50 DANI WHEELER 35	2:53.25 CATHERINE KOHN 38
5:13.84 BONNIE RHODES 31	1500 M. FREE WOMEN 35-39	1:32.54 MELISSA HANSON 39	2:54.93 MARILYN A S FINK 36
5:36.95 CATHY NEVILLE 33	18:27.71 LAURA VAL 87	1:33.13 JEAN SPINELLI 35	2:57.77 JOANNE BOWSER 37
5:41.45 MARY CURL 34	19:20.09 KAREN FARNSWORTH 35	200 M. BRST WOMEN 35-39	3:00.48 REBECCA KOLAR 35
5:47.11 MARGUERITE MEYER 32	20:42.66 MARCIA S DUGGER 35	2:50.93 LESLIE OSBORNE 89	3:00.85 MELISSA HANSON 39
6:13.84 BARBARA WITTE 30	21:00.37 K.TREBESINER 38	3:03.99 GAYLE BENTY 39	400 M. I.M. WOMEN 35-39
6:26.38 NANJI SIROIS 33	21:02.25 GAYLE BENTY 39	3:07.01 KAREN FARNSWORTH 35	5:30.35 KAREN FARNSWORTH 91
6:31.52 LIBBY NEUFELD 34	21:28.67 SHERRY KITTRELL 39	3:09.45 KATIE MCNAMARA 36	5:30.35 KAREN FARNSWORTH 35
6:47.07 KAREN FORTOUL 30	22:03.48 ANITA ALLEN 37	3:10.40 C.SHIGAKI-IWAMOTO 36	6:28.05 REBECCA KOLAR 35
6:58.43 KATHY TRITSCHLER 31	22:11.31 J.SANTILLANO 38	3:19.17 PATRICIA TIMMONS 37	6:36.80 MARGARET HAIR 36
7:09.57 CATHY SCHUSTER 33	22:14.62 MARGARET HAIR 35	3:20.36 MARCIA S DUGGER 35	6:59.92 MARY DOWLEN 36
50 M. FREE WOMEN 35-39	22:28.82 JUDY LANEY 38	3:23.92 KIM CROUNSE 35	7:18.96 SUSAN MURRAY 35
27.66 JACKI HIRSTY 89	23:20.79 ELIN ZANDER 36	3:27.23 ELIN ZANDER 36	7:28.72 JENNIFER JEANES 35
28.07 LYNN CASEY 37	50 M. BACK WOMEN 35-39	3:32.87 KAREN MICKUNAS 36	7:28.76 PAT BAYERS 37
28.69 BONNIE ADAIR 39	32.50 LAURA VAL 91	3:35.30 JESSICA SEATON 38	7:40.90 LAURA MELDRUM 38
30.02 K.TREBESINER 38	32.50 LAURA B VAL 39	50 M. FLY WOMEN 35-39	7:50.18 CHERYL ALEXANDER 35
30.19 MARILYN A S FINK 37	34.60 C.SHIGAKI-IWAMOTO 36	30.05 LAURA VAL 91	7:52.66 ANITA CHATIGNY 36
30.30 MARY HAMILTON 37	35.47 MARY HAMILTON 37	30.05 LAURA B VAL 39	50 M. FREE WOMEN 40-44
30.57 JEAN SPINELLI 35	36.59 JEAN SPINELLI 35	31.15 LYNN CASEY 37	29.38 ARDETH MUELLER 85
30.81 PATRICIA MCKAY 35	37.15 GINNY BROWN 36	31.78 MARY ANN STEVENS 38	30.14 SHARON WISE 44
31.07 TERESA WEYDERT 37	37.16 JANIS WIKANDER 39	33.05 MARY HAMILTON 37	30.81 BARBARA G DUNBAR 42
31.44 MELISSA HANSON 39	37.35 MARILYN AS FINK 36	33.26 K.TREBESINER 38	31.93 KATHRINE CASEY 43
31.77 KATIE MCNAMARA 36	37.38 CYNTHIA MALTRY 36	33.65 WENDI H SCHIELD 36	32.05 SUE TENDY 42
100 M. FREE WOMEN 35-39	38.10 KAREN JOHNSON 35	34.11 CYNTHIA MALTRY 36	32.08 JERIANNE DONNELLY 42
1:00.75 JACKI HIRSTY 89	38.29 PATRICIA MCKAY 35	34.44 C.SHIGAKI-IWAMOTO 36	32.35 ANN LYTTLE 43
1:04.79 MARY ANN STEVENS 38	100 M. BACK WOMEN 35-39	34.84 REBECCA BENSON 38	32.69 CHRISTINE ZIMMET 43
1:05.23 JEAN SPINELLI 35	1:12.14 LAURA VAL 91	35.09 MELISSA HANSON 39	33.02 MARCIA BARRY 43
1:05.97 WENDI H SCHIELD 36	1:12.14 LAURA B VAL 39	100 M. FLY WOMEN 35-39	33.65 SALLY BRUCE 40
1:06.38 MARY HAMILTON 37	1:16.28 BONNIE ADAIR 39	1:07.42 LAURA VAL 91	34.17 B.EDELMAIER 44
1:06.65 K.TREBESINER 38	1:16.77 MARY ANN STEVENS 38	1:07.42 LAURA B VAL 39	100 M. FREE WOMEN 40-44
1:06.94 MARILYN A S FINK 36	1:18.06 C.SHIGAKI-IWAMOTO 36	1:18.50 K.TREBESINER 38	1:05.27 C. IANACONE 88
1:07.96 PATRICIA MCKAY 35	1:18.65 JEAN SPINELLI 35	1:20.95 KATHY LYNCH 36	1:07.24 SHARON WISE 44
1:09.29 REBECCA BENSON 38	1:19.82 CYNTHIA MALTRY 36	1:23.44 WENDY CARR 36	1:07.33 BARBARA G DUNBAR 42
1:10.16 MELISSA HANSON 39	1:20.69 MARILYN A S FINK 37	1:25.35 S.LEE-SHERIDAN 39	1:09.64 JONELLE SCHMIDT 40
1:10.93 TERESA WEYDERT 37	1:20.72 JOANNE BOWSER 39	1:30.50 ANITA ALLEN 37	1:11.01 JAN PESAVENTO 40
200 M. FREE WOMEN 35-39	1:21.77 REBECCA BENSON 38	1:31.36 CATHY HOELSCHER 35	1:11.44 KATHRINE CASEY 43
2:12.69 JACKI HIRSTY 89	1:23.11 K.TREBESINER 38	1:34.01 MARGARET HAIR 36	1:11.49 ANN LYTTLE 43

TOP TEN SHORT COURSE METERS

1:11.91	MARCIA BARRY	43	1:24.96	JEANNIE MITCHEL	44	1:18.35	JANET GETTLING	43	1:12.08	JUDY REED	46
1:12.11	JERIANNE DONNELLY	42	1:25.88	GWEN DEELY	41	1:22.50	LUCY JOHNSON	44	1:13.76	MARGE BURLEY	46
1:12.69	GWEN DEELY	41	1:26.44	CHRISTINE ZIMMET	43	1:24.82	CHRISTINE ZIMMET	43	1:16.23	SUZANNE DILLS	45
1:13.72	CHRISTINE ZIMMET	43	1:26.51	LUCY JOHNSON	44	1:24.97	JAMIE STEWART	43	1:16.94	CAROLYN KENT	46
200 M. FREE WOMEN 40-44			1:27.41	SUSAN C. CHAPIN	40	1:26.18	CATHY MANCINO	41	1:20.85	VICKI BUCCINO	45
2:21.22	BARBARA DUNBAR	91	1:27.45	LINDA MARIZ	43	1:26.21	SUSAN SCHAFFER	43	1:22.74	JUDY DECKER	48
2:21.22	BARBARA G DUNBAR	42	200 M. BACK WOMEN 40-44			1:28.42	KRISTINA V KING	43	1:24.43	FREDERICKA RAPP	47
2:28.35	JONELLE SCHMIDT	40	2:43.32	JAN PESAVENTO	91	1:30.04	COLLEEN MOORE	41	1:26.97	NANCY KRANPITZ	46
2:32.50	KATHRINE CASEY	42	2:43.32	JAN PESAVENTO	40	200 M. FLY WOMEN 40-44			1:28.09	PATRICIA RICHARD	46
2:35.21	MARCIA BARRY	43	3:00.41	CHRISTINE ZIMMET	43	.2:32.19	BARBARA DUNBAR	89	1:29.93	OPAL OLSON	46
2:35.25	GWEN DEELY	41	3:06.11	JEANNIE MITCHEL	44	2:34.34	BARBARA DUNBAR	42	200 M. FREE WOMEN 45-49		
2:38.01	ANN LYTLE	43	3:06.12	ANDREA HAINES	43	2:47.53	SUSI CHANDLER	40	2:28.69	ARDETH MUELLER	87
2:38.84	LUCY JOHNSON	44	3:12.18	LINDA MARIZ	43	2:54.10	JANET GETTLING	43	2:38.43	ANN SVANSON	45
2:39.43	CHRISTINE ZIMMET	43	3:12.48	CATHY BROOKS	43	3:05.84	DARLENE STALEY	41	2:44.52	SUZANNE DILLS	45
2:41.79	KATHLEEN BUCK	40	3:13.09	H.CARLING-SMITH	41	3:07.59	GINGER PIERSON	44	2:46.61	GINGER PIERSON	45
2:44.38	H.CARLING-SMITH	40	3:14.08	BARBARA H LARSEN	43	3:10.79	CATHY MANCINO	41	2:46.76	MARGE BURLEY	46
400 M. FREE WOMEN 40-44			3:15.89	MARSHA HEINIG	44	3:19.11	BARBARA H LARSEN	43	2:50.25	BARBARA FRID	48
4:53.28	BARBARA DUNBAR	90	3:19.24	MONIKA HUNSCHER	43	3:19.33	CHRISTINE ZIMMET	43	2:52.25	VICKI BUCCINO	45
4:54.78	BARBARA G DUNBAR	42	50 M. BRST WOMEN 40-44			3:19.75	JAMIE STEWART	43	3:08.22	FREDERICKA RAPP	47
5:16.58	SUSI CHANDLER	40	38.36	GINGER PIERSON	87	3:19.85	EDITH JACOBSEN	44	3:11.21	OPAL OLSON	46
5:25.42	KATHRINE CASEY	43	38.38	A.WRIGHT-BELKNAP	41	100 M. I.M. WOMEN 40-44			3:13.60	PATRICIA RICHARD	46
5:29.06	MARCIA BARRY	43	39.89	JAN PESAVENTO	40	1:16.24	BARBARA DUNBAR	89	3:14.17	BARBARA KLAUS	49
5:30.41	GWEN DEELY	41	40.00	KATHRINE CASEY	43	1:17.27	JAN PESAVENTO	40	400 M. FREE WOMEN 45-49		
5:38.84	LUCY JOHNSON	44	40.20	GINGER PIERSON	44	1:18.52	JONELLE SCHMIDT	40	5:08.62	ARDETH MUELLER	90
5:40.63	CHRISTINE ZIMMET	43	40.99	JANET GETTLING	43	1:18.67	BARBARA G DUNBAR	42	5:23.41	CAROLYN F BOAK	46
5:41.73	ANN LYTLE	43	41.73	SUZANNE COOPER	41	1:24.05	H.CARLING-SMITH	41	5:28.87	JANE KATZ	48
5:50.25	H.CARLING-SMITH	40	41.83	SUSI CHANDLER	40	1:24.95	GWEN DEELY	41	5:35.06	ANN SVANSON	45
5:55.56	M.MARCANTONIO	41	42.35	SALLY BRUNSON	42	1:24.99	LINDA MARIZ	43	5:57.23	PAT MALEY	48
800 M. FREE WOMEN 40-44			42.36	BARBARA G DUNBAR	42	1:25.53	SUZANNE COOPER	41	5:57.96	VICKI BUCCINO	45
10:04.16	BARBARA DUNBAR	91	42.55	KATHLEEN LOMA	42	1:25.60	SALLY BRUNSON	42	6:02.49	CAROLYN KENT	45
10:04.16	BARBARA G DUNBAR	42	100 M. BRST WOMEN 40-44			1:25.89	JOAN KOSAVEACH	44	6:04.78	MARY POHLMANN	46
11:23.90	GWEN DEELY	41	1:23.81	GINGER PIERSON	88	1:26.10	ANDREA HAINES	43	6:10.97	JUDY DECKER	48
11:41.07	DARLENE STALEY	41	1:24.52	A.WRIGHT-BELKNAP	41	200 M. I.M. WOMEN 40-44			6:14.19	CAROL GRISSE	47
11:58.35	KRISTINA V KING	43	1:26.38	GINGER PIERSON	44	2:42.81	BARBARA DUNBAR	91	6:20.26	PINKY WALKER	49
12:11.39	ANDREA HAINES	43	1:28.26	SUSI CHANDLER	40	2:42.81	BARBARA G DUNBAR	42	800 M. FREE WOMEN 45-49		
12:12.52	CHRISTINE ZIMMET	43	1:28.63	KATHRINE CASEY	42	2:47.21	SUSI CHANDLER	40	11:04.43	JANE KATZ	91
12:16.93	COLLEEN MOORE	41	1:31.32	STEPHANIE WALSH	42	2:56.68	GINGER PIERSON	44	11:04.43	JANE KATZ	48
12:45.42	JACKLYN N LITMAN	41	1:31.40	KATHLEEN LOMA	42	2:59.41	KATHRINE CASEY	43	11:30.15	ANN SVANSON	45
12:47.68	SANDRA CATHEY	42	1:33.70	LINDA MARIZ	43	3:05.65	CATHY MANCINO	41	12:00.78	PAT MALEY	48
12:47.72	N. VANAST	40	1:33.95	SALLY BRUNSON	42	3:05.82	H.CARLING-SMITH	40	12:16.46	CAROLYN KENT	46
1500 M. FREE WOMEN 40-44			1:35.39	SUSAN ZAVALKO	41	3:06.96	LINDA MARIZ	43	12:41.36	VICKI BUCCINO	45
19:00.81	BARBARA DUNBAR	90	1:37.56	KATHLEEN BUCK	40	3:08.43	CATHY BROOKS	43	12:46.88	ELAINE BROMWICH	48
19:25.74	BARBARA G DUNBAR	42	200 M. BRST WOMEN 40-44			3:12.84	MARCIA BARRY	43	13:16.77	MIMI CLARK	48
20:43.42	SUSI CHANDLER	40	3:01.86	GINGER PIERSON	87	3:15.10	BARBARA H LARSEN	43	13:41.54	OPAL OLSON	46
21:43.00	MARCIA BARRY	43	3:09.68	GINGER PIERSON	44	400 M. I.M. WOMEN 40-44			14:19.30	CAROL SING	49
22:31.11	CATHY MANCINO	41	3:11.03	SUSI CHANDLER	40	5:42.95	BARBARA DUNBAR	90	15:00.70	BARBARA KLAUS	49
22:40.69	KRISTINA V KING	43	3:16.85	KATHRINE CASEY	42	5:37.05	BARBARA DUNBAR	42NV	1500 M. FREE WOMEN 45-49		
23:04.74	SUZANNE RAGUE	41	3:22.50	KATHLEEN LOMA	42	5:55.09	SUSI CHANDLER	40	22:06.73	ANN SVANSON	91
23:18.93	M.MARCANTONIO	41	3:24.20	CATHY BROOKS	43	6:18.13	GINGER PIERSON	44	22:06.73	ANN SVANSON	45
23:54.21	PHYLLIS SPRINGER	42	3:26.61	SUSAN LEVICKAS	44	6:41.97	JAMIE STEWART	43	22:51.32	VICKI BUCCINO	45
24:19.18	JACKLYN N LITMAN	41	3:28.99	SUSAN CASE	42	6:42.60	EDITH JACOBSEN	44	22:52.27	PAT MALEY	47
24:24.06	SANDRA CATHEY	42	3:29.89	KATHLEEN BUCK	40	6:49.65	SUZANNE RAGUE	41	23:28.13	CAROLYN KENT	45
50 M. BACK WOMEN 40-44			3:31.13	CATHY MANCINO	41	6:51.08	SANDRA CATHEY	42	25:01.84	JUDY DECKER	48
35.26	DALE STRICKLAND	88	3:34.39	LUCY JOHNSON	44	7:49.80	KATHERINE WATSON	43	27:56.86	CAROL SING	49
35.44	JAN PESAVENTO	40	50 M. FLY WOMEN 40-44			7:59.79	JANE MOORE	40	28:09.93	MARY MEAD	49
38.33	JERIANNE DONNELLY	42	32.11	BARBARA DUNBAR	89	8:34.16	CHRISTINE BIBY	44	28:39.22	MAUREEN KOSS	48
39.09	BARBARA G DUNBAR	42	32.51	BARBARA G DUNBAR	42	50 M. FREE WOMEN 45-49			34:03.04	CECILY MC NEIL	46
39.15	JEANNIE MITCHEL	44	33.41	SUSI CHANDLER	40	30.05	NANCY RIDOUT	89	35:14.82	KAREN FADY	49
39.18	STEPHANIE WALSH	42	33.45	SHARON WISE	44	31.75	JUDY REED	46	50 M. BACK WOMEN 45-49		
40.02	MARCIA BARRY	43	35.02	STEPHANIE WALSH	42	32.66	GINGER PIERSON	45	37.29	BETTY BENNETT	89
40.21	JAMIE STEWART	43	35.03	JANET GETTLING	43	33.69	CAROL GRISSE	47	38.17	GINGER PIERSON	45
40.30	ANDREA HAINES	43	35.21	JAMIE STEWART	43	35.69	JANE KATZ	48	40.99	MARY POHLMANN	46
40.63	SUZANNE COOPER	41	36.55	H.CARLING-SMITH	40	35.91	PINKY WALKER	49	41.22	BARBARA FRID	48
40.82	B.EDELMAIER	44	37.54	SUZANNE COOPER	41	36.13	VICKI BUCCINO	45	41.48	B.EDELMAIER	45
100 M. BACK WOMEN 40-44			37.64	B.EDELMAIER	44	36.41	BARBARA KLAUS	49	41.84	JUDY REED	46
1:14.46	JAN PESAVENTO	91	38.25	SANDI ROUSSEAU	44	39.06	NANCY LOWDEN	49	41.94	PINKY WALKER	49
1:14.46	JAN PESAVENTO	40	100 M. FLY WOMEN 40-44			39.11	LINDA ELY	46	42.28	CAROLYN KENT	46
1:20.98	JONELLE SCHMIDT	40	1:10.56	BARBARA DUNBAR	89	39.29	MARY LAPOS	49	43.26	CAROL GRISSE	47
1:23.81	STEPHANIE WALSH	42	1:11.08	BARBARA G DUNBAR	42	100 M. FREE WOMEN 45-49			43.39	BETSY DURRANT	49
1:24.16	JERIANNE DONNELLY	42	1:14.26	SUSI CHANDLER	40	1:07.90	NANCY RIDOUT	89	44.61	JANE HOLT	46

TOP TEN SHORT COURSE METERS

100 M. BACK WOMEN 45-49	50.07 LEE BENJAMIN	45	1:25.57 CEIL BLACKWELL	50	1:39.77 ROBERTA BOBERSKI	51
1:21.06 BETTY BENNETT	52.07 MARY MEAD	49	1:26.45 MARY PUDIM	51	1:40.25 SUSAN RITTENHOUSE	53
1:23.73 GINGER PIERSON	100 M. FLY WOMEN 45-49		1:27.24 ALICE JONES	53	1:42.24 ANN MCDONNELL	53
1:26.25 MARY POHLMANN	1:18.79 NANCY RIDOUT	89	1:27.53 SUSAN BRADLEY-COX	54	1:43.50 MARYLOU SCHULZ	51
1:26.26 SARAH L BROUGHER	1:25.17 GINGER PIERSON	45	1:27.80 ROBERTA BOBERSKI	51	1:43.60 SUSAN SPRINGER	53
1:28.69 JANE KATZ	1:28.12 CAROLYN KENT	45	200 M. FREE WOMEN 50-54		1:47.38 PATRICIA TULLMAN	54
1:30.11 CAROLYN KENT	1:28.92 MARGE BURLEY	46	2:28.85 ARDETH MUELLER	91	1:49.90 MARILYN RAMEY	51
1:32.99 PINKY WALKER	1:39.90 VICKI BUCCINO	45	2:28.85 ARDETH MUELLER	50	200 M. BACK WOMEN 50-54	
1:33.26 ANN SVANSON	1:44.95 NANCY KRANPITZ	46	2:41.78 JAYNE LAMBKE	52	2:48.88 ARDETH MUELLER	91
1:35.32 BETSY DURRANT	2:03.73 MARY MEAD	49	2:47.42 BETSY JORDAN	54	2:48.88 ARDETH MUELLER	50
1:37.67 CAROL GRISSO	200 M. FLY WOMEN 45-49		3:00.78 SUSAN BRADLEY-COX	54	2:56.70 BETSY JORDAN	54
1:39.58 ELAINE BROMWICH	2:37.88 ARDETH MUELLER	87	3:11.89 PATRICIA TULLMAN	54	3:27.99 CEIL BLACKWELL	50
200 M. BACK WOMEN 45-49	3:02.40 GINGER PIERSON	45	3:13.26 MARYLOU SCHULZ	51	3:30.58 MARYLOU SCHULZ	51
2:56.06 BETTY BENNETT	3:23.14 ELAINE BROMWICH	48	3:15.40 ANN MCDONNELL	53	3:39.44 SUSAN SPRINGER	53
2:59.52 GINGER PIERSON	3:42.69 VICKI BUCCINO	45	3:15.43 SUSAN SPRINGER	53	3:46.98 PATRICIA TULLMAN	54
3:00.99 JANE KATZ	3:58.00 PAT MALEY	48	3:16.14 MARY PUDIM	51	3:50.27 SYLVIA GLENN	53
3:05.56 MARY POHLMANN	4:29.88 MARY MEAD	49	3:20.50 SYLVIA GLENN	53	3:57.85 INGRID STINE	52
3:11.94 J.MURPHY-SHERMAN	100 M. I.M. WOMEN 45-49		400 M. FREE WOMEN 50-54		4:00.40 MARILYN RAMEY	51
3:12.57 CAROLYN KENT	1:14.41 ARDETH MUELLER	87	5:12.43 ARDETH MUELLER	91	4:26.54 LILLIE THOMPSON	50
3:19.23 JEAN VICKERY	1:19.87 GINGER PIERSON	45	5:12.43 ARDETH MUELLER	50	50 M. BRST WOMEN 50-54	
3:27.20 PINKY WALKER	1:23.73 SARAH L BROUGHER	49	5:45.28 JAYNE LAMBKE	52	40.51 JOANN LEILICH	90
3:30.53 ELAINE BROMWICH	1:26.67 ELAINE BROMWICH	48	5:53.51 BETSY JORDAN	54	41.23 JOANN LEILICH	52
3:32.97 JANE HOLT	1:26.78 CAROLYN KENT	45	6:07.87 SUSAN BRADLEY-COX	54	44.65 MARGIT JEBE	53
3:36.52 PAT MALEY	1:27.43 J.MURPHY-SHERMAN	46	6:32.71 ANN MCDONNELL	53	47.46 BETSY JORDAN	54
50 M. BRST WOMEN 45-49	1:27.52 CAROL GRISSO	47	6:37.37 MARYLOU SCHULZ	51	47.62 ALICE JONES	53
38.67 ELAINE BROMWICH	1:29.91 JUDY DECKER	48	6:42.89 CAROL SING	50	47.68 CEIL BLACKWELL	50
39.25 GINGER PIERSON	1:31.07 JANE KATZ	48	6:46.46 CEIL BLACKWELL	50	47.68 FRANCESCA DRUM	50
39.96 ELAINE BROMWICH	1:31.18 B.EDELMAIER	45	7:04.92 DAWN STROUPE	52	48.02 JACQUELYN PIPER	54
43.82 JUDY DECKER	1:33.57 MARY POHLMANN	46	7:06.00 SYLVIA GLENN	53	48.64 ANNEMARIE BELLEM	52
44.54 BETSY DURRANT	200 M. I.M. WOMEN 45-49		800 M. FREE WOMEN 50-54		50.56 MARILYN RAMEY	51
44.63 BEA HACKETT	2:42.88 ARDETH MUELLER	87	11:35.78 LAVELLE STOINOFF	87	50.87 SUSAN BLAKE	53
46.08 CAROLYN KENT	2:55.15 GINGER PIERSON	45	11:57.71 JAYNE LAMBKE	52	100 M. BRST WOMEN 50-54	
46.48 FRANCESCA DRUM	2:59.22 SARAH L BROUGHER	49	12:20.49 SUSAN BRADLEY-COX	54	1:28.51 JOANN LEILICH	89
46.76 MARILYN J BLISS	3:07.89 SUZANNE DILLS	45	13:15.53 LUISE EASTON	52	1:29.29 JOANN LEILICH	52
47.06 BARBARA KLAUS	3:08.78 ELAINE BROMWICH	48	13:28.50 ANN MCDONNELL	53	1:38.09 MARGIT JEBE	53
47.92 VICKI BUCCINO	3:15.08 MARY POHLMANN	46	13:42.87 ROBERTA BOBERSKI	51	1:44.80 FRANCESCA DRUM	50
100 M. BRST WOMEN 45-49	3:17.42 JUDY DECKER	48	14:41.58 SYLVIA GLENN	53	1:45.34 MARILYN RAMEY	51
1:25.20 ELAINE BROMWICH	3:30.27 PAT MALEY	48	15:14.76 JEANNINE OLSON	52	1:46.91 JACQUELYN PIPER	54
1:25.34 GINGER PIERSON	3:36.17 VICKI BUCCINO	45	15:21.45 PATRICIA SCHEAFER	51	1:46.99 ANNEMARIE BELLEM	52
1:25.84 CAROLYN F BOAK	3:38.25 FRANCESCA DRUM	49	15:47.02 MARILYN RAMEY	51	1:47.53 DAWN STROUPE	52
1:28.35 ELAINE BROMWICH	3:39.88 NANCY KRANPITZ	46	16:39.82 SANDY STEER	52	1:52.25 CAROL SING	50
1:35.31 J.MURPHY-SHERMAN	400 M. I.M. WOMEN 45-49		1500 M. FREE WOMEN 50-54		1:54.26 SANDY STEER	52
1:36.50 BARBARA FRID	5:55.35 ARDETH MUELLER	87	21:44.35 LAVELLE STOINOFF	87	1:55.04 ROBERTA BOBERSKI	51
1:37.54 BETSY DURRANT	6:26.67 GINGER PIERSON	45	20:31.44 ARDETH MUELLER	50NV	200 M. BRST WOMEN 50-54	
1:38.40 JUDY DECKER	6:34.77 CAROLYN KENT	45	23:01.01 SUSAN BRADLEY-COX	54	3:11.20 JOANN LEILICH	89
1:39.46 CAROLYN KENT	6:41.60 ELAINE BROMWICH	48	23:39.54 BETSY JORDAN	53	3:14.94 JOANN LEILICH	52
1:40.72 BEA HACKETT	6:46.68 ANN SVANSON	45	25:50.80 ROBERTA BOBERSKI	51	3:36.26 FRANCESCA DRUM	50
1:42.10 FRANCESCA DRUM	6:48.20 JANE KATZ	48	27:06.78 CAROL SING	50	3:44.24 BETSY JORDAN	54
200 M. BRST WOMEN 45-49	6:58.86 MARY POHLMANN	46	27:39.37 SYLVIA GLENN	53	3:48.61 ALICE JONES	53
3:04.75 GINGER PIERSON	7:18.60 PAT MALEY	48	28:23.62 DAWN STROUPE	52	3:50.18 DAWN STROUPE	52
3:04.75 GINGER PIERSON	7:34.54 VICKI BUCCINO	45	28:45.69 JEANNINE OLSON	52	3:50.23 JACQUELYN PIPER	54
3:11.22 ELAINE BROMWICH	50 M. FREE WOMEN 50-54		31:37.63 LILLIE THOMPSON	50	3:50.65 ANNEMARIE BELLEM	52
3:21.93 MARGE BURLEY	32.30 JAYNE BRUNER	89	31:57.14 LUISE EASTON	52	3:54.41 MARILYN RAMEY	51
3:29.49 CAROLYN KENT	30.12 ARDETH MUELLER	50NV	50 M. BACK WOMEN 50-54		3:59.64 CAROL SING	50
3:33.29 JUDY DECKER	33.92 JAYNE LAMBKE	52	37.59 BETSY JORDAN	91	4:08.13 SYLVIA GLENN	53
3:36.76 FRANCESCA DRUM	36.15 JEANNE LITTLE	54	37.59 BETSY JORDAN	54	50 M. FLY WOMEN 50-54	
3:44.60 BEA HACKETT	36.22 BETSY JORDAN	54	39.78 ARDETH MUELLER	50	36.43 JAYNE LAMBKE	89
3:53.22 PATRICIA RICHARD	36.87 CEIL BLACKWELL	50	43.16 SUSAN BLAKE	53	32.50 ARDETH MUELLER	50NV
4:00.79 VICKI BUCCINO	37.64 MARDELLE SHAGOOL	54	43.64 CEIL BLACKWELL	50	38.51 BETSY JORDAN	54
4:04.93 MARY MEAD	38.32 FRANCESCA DRUM	50	43.85 JAYNE LAMBKE	52	42.12 SUSAN BLAKE	53
50 M. FLY WOMEN 45-49	39.21 ANN MCDONNELL	53	44.20 SUSAN RITTENHOUSE	53	43.67 MARY PUDIM	51
33.93 BARBARA HOELLEN	39.32 JACQUELYN PIPER	54	47.69 ANN MCDONNELL	53	44.60 CEIL BLACKWELL	50
33.55 SARAH L BROUGHER	40.44 SYLVIA GLENN	53	48.41 PATRICIA TULLMAN	54	45.90 MARGIT JEBE	53
35.58 GINGER PIERSON	100 M. FREE WOMEN 50-54		51.23 SYLVIA GLENN	53	47.67 ALICE JONES	53
36.07 JUDY REED	1:06.41 ARDETH MUELLER	91	51.75 MARILYN RAMEY	51	48.56 SYLVIA GLENN	53
37.27 CAROLYN KENT	1:06.41 ARDETH MUELLER	50	100 M. BACK WOMEN 50-54		49.31 MARY ANN MC CLAIN	50
39.03 B.EDELMAIER	1:11.93 JAYNE LAMBKE	52	1:20.50 ARDETH MUELLER	91	53.04 JEANNINE OLSON	52
44.86 VICKI BUCCINO	1:17.01 BETSY JORDAN	54	1:20.50 ARDETH MUELLER	50	100 M. FLY WOMEN 50-54	
46.97 FREDERICKA RAPP	1:23.62 ANN MCDONNELL	53	1:21.57 BETSY JORDAN	54	1:12.66 ARDETH MUELLER	91
48.99 CAROLE BORLAND	1:25.54 MARY ANN MC CLAIN	50	1:36.86 CEIL BLACKWELL	50	1:12.66 ARDETH MUELLER	50

TOP TEN SHORT COURSE METERS

1:27.67	BETSY JORDAN	54	1:38.12	PATRICIA MOYNAHAN	57	1:52.78	H. BERNING	58	200 M. FLY WOMEN 55-59		
1:31.69	JAYNE LAMBKE	52	1:42.33	BARBARA ALLEN	58	1:57.70	PAT PETERSEN	56	3:20.43	GAIL ROPER	86
1:43.62	MARGIT JEBE	53	1:42.42	CHERYL CORBETT	59	200 M. BACK WOMEN 55-59			3:27.28	JAYNE BRUNER	57
1:49.15	MARYLOU SCHULZ	51	1:42.48	BARBARA ANDERSON	57	3:11.13	LAVELLE STOINOFF	89	3:31.37	ANNE MCGUIRE	57
1:50.17	DAWN STROUPE	52	200 M. FREE WOMEN 55-59			3:21.54	ANN CHAMP	56	3:41.94	RONNIE KAMPHAUSEN	57
1:50.83	ROBERTA BOBERSKI	51	2:40.27	LAVELLE STOINOFF	89	3:42.73	BARBARA CALLISON	58	100 M. I.M. WOMEN 55-59		
1:51.89	MARY ANN MC CLAIN	50	2:48.30	RONNIE KAMPHAUSEN	57	3:46.27	MARIA YUNGEL	59	1:24.19	JAYNE BRUNER	89
1:52.44	MARY PUDIM	51	2:49.51	NANCY BROWN	55	3:56.99	KATHIE THEIS	59	1:29.70	NANCY BROWN	55
1:56.66	SUSAN SPRINGER	53	3:19.61	JAN K. RAINS	57	3:58.02	H. BERNING	58	1:36.58	ANNE MCGUIRE	57
200 M. FLY WOMEN 50-54			3:23.60	E. MOORE	57	4:03.75	BARBARA ALLEN	58	1:38.01	BARBARA CALLISON	58
3:11.83	SPERRY RADEMAKER	89	3:25.88	BEVERLY MYERS	56	4:18.81	PEGGY BUCHANNAH	58	1:47.98	MARTI VILLARREAL	55
2:45.99	ARDETH MUELLER	50NV	3:34.04	MARY ANN STONE	58	4:22.14	JANET KAVADAS	59	1:49.92	SHIRLEY BEHELER	57
4:04.56	DAWN STROUPE	52	3:45.38	MARIANNE BROGAN	56	4:41.22	MARIAN KURTZ	55	1:51.48	E. MOORE	57
4:08.55	SUSAN SPRINGER	53	3:45.65	BARBARA ALLEN	58	50 M. BRST WOMEN 55-59			1:54.92	JAN RAINS	57
4:08.60	INGRID STINE	52	3:59.21	PEGGY BUCHANNAH	58	40.69	JAYNE BRUNER	91	1:56.69	PEGGY BUCHANNAH	58
5:18.00	EDNA SPRING	53	3:59.40	J. MOIR	59	40.69	JAYNE BRUNER	57	1:58.62	JOYCE VOIT	56
100 M. I.M. WOMEN 50-54			400 M. FREE WOMEN 55-59			45.01	ANNE MCGUIRE	57	1:58.93	PATRICIA MOYNAHAN	56
1:18.05	ARDETH MUELLER	91	5:34.32	LAVELLE STOINOFF	89	46.01	BEVERLY MYERS	56	200 M. I.M. WOMEN 55-59		
1:18.05	ARDETH MUELLER	50	5:52.75	RONNIE KAMPHAUSEN	57	47.99	LILLY KRON	59	3:13.18	JAYNE BRUNER	89
1:26.97	BETSY JORDAN	54	6:22.94	ANNE MCGUIRE	57	50.40	DORA COFFELT	56	3:19.68	RONNIE KAMPHAUSEN	57
1:31.57	JAYNE LAMBKE	52	6:33.61	JAYNE BRUNER	57	51.11	YOLANDE H HOSS	58	3:25.13	ANNE MCGUIRE	57
1:34.26	CEIL BLACKWELL	50	6:51.93	DONNA MONROE	57	53.95	JAN K. RAINS	57	3:30.42	BARBARA CALLISON	58
1:35.78	MARGIT JEBE	53	6:56.19	MARY ANN STONE	58	55.22	SUZANNE E ROBBINS	57	3:58.11	DONNA MONROE	57
1:41.34	MARY PUDIM	51	7:06.77	ELIZABETH MOORE	57	56.54	ELIZABETH MOORE	57	4:00.10	SHIRLEY A BEHELER	57
1:42.08	MARYLOU SCHULZ	51	7:29.24	PATRICIA MOYNAHAN	56	57.31	ELFRIEDE LEHTO	58	4:01.85	ELIZABETH MOORE	57
1:43.39	SYLVIA GLENN	53	7:38.58	CAROLYN BALDWIN	56	100 M. BRST WOMEN 55-59			4:07.54	DONNA EDELBAUM	58
1:46.37	ANNEMARIE BELLEM	51	7:57.25	JUDY PULESTON	56	1:30.31	JAYNE BRUNER	91	4:19.79	CAROLYN BALDWIN	56
1:46.77	MARY ANN MC CLAIN	50	7:59.83	BARBARA ALLEN	58	1:30.31	JAYNE BRUNER	57	4:20.42	PAT PETERSEN	56
200 M. I.M. WOMEN 50-54			800 M. FREE WOMEN 55-59			1:38.97	ANNE MCGUIRE	57	4:22.02	JOYCE VOIT	56
3:04.97	BETSY JORDAN	91	11:29.99	LAVELLE STOINOFF	89	1:44.68	LILLY KRON	59	400 M. I.M. WOMEN 55-59		
2:46.44	ARDETH MUELLER	50NV	12:09.60	RONNIE KAMPHAUSEN	57	1:46.83	BARBARA CALLISON	58	7:00.44	RONNIE KAMPHAUSEN91	
3:04.97	BETSY JORDAN	54	12:58.56	ANNE MCGUIRE	57	1:47.64	YOLANDE H HOSS	58	7:00.44	RONNIE KAMPHAUSEN	57
3:18.44	SUSAN BLAKE	53	14:07.22	E. MOORE	57	1:54.32	DORA COFFELT	56	7:14.65	ANNE MCGUIRE	57
3:35.23	ROBERTA BOBERSKI	51	14:11.69	BARBARA CALLISON	58	1:57.06	JAN RAINS	58	7:45.50	BARBARA CALLISON	58
3:38.59	MARY PUDIM	51	14:30.34	JUDY PARKER	55	1:59.61	CAROLYN BALDWIN	56	9:18.79	JOYCE VOIT	56
3:39.16	FRANCESCA DRUM	50	14:50.93	MARY ANN STONE	58	2:00.30	JOY ROSS	57	<u>50 M. FREE WOMEN 60-64</u>		
3:44.21	MARYLOU SCHULZ	51	15:58.37	LILLY KRON	59	2:03.91	E. MOORE	57	35.33	ANNE ADAMS	89
3:44.73	DAWN STROUPE	52	16:05.81	JUDY PULESTON	56	200 M. BRST WOMEN 55-59			37.33	JEAN TROY	64
3:46.14	SYLVIA GLENN	53	16:24.94	BARBARA ALLEN	58	3:23.08	JAYNE BRUNER	91	37.85	ANNE ADAMS	63
3:47.49	CAROL SING	50	1500 M. FREE WOMEN 55-59			3:23.08	JAYNE BRUNER	57	38.50	NANCY MACBETH	62
400 M. I.M. WOMEN 50-54			21:35.84	LAVELLE STOINOFF	89	3:31.02	ANNE MCGUIRE	57	38.67	BERNA M BENNETT	64
5:56.24	ARDETH MUELLER	91	24:29.28	ANNE MCGUIRE	57	3:36.32	LILLY KRON	59	39.03	JACQUELINE DUNLOP	60
5:56.24	ARDETH MUELLER	50	26:57.08	BARBARA CALLISON	58	4:00.20	MARY ANN STONE	58	39.26	DELLA M SEHORN	64
6:41.79	BETSY JORDAN	53	27:49.41	MARY ANN STONE	58	4:00.53	BARBARA CALLISON	58	39.75	EDIE GRUENDER	63
7:30.14	ROBERTA BOBERSKI	51	29:15.68	JUDY PULESTON	56	4:05.31	DORA COFFELT	56	40.11	CAROL FERGUSON	60
7:41.64	MARYLOU SCHULZ	51	30:03.80	LILLY KRON	59	4:07.67	JOY ROSS	57	40.71	GAY COLLINS	61
7:49.47	DAWN STROUPE	52	32:46.70	BARBARA ALLEN	58	4:17.28	CAROLYN BALDWIN	56	41.75	ANN DALLAM	61
7:56.64	CAROL SING	50	34:33.45	JUDY TILARO	56	4:20.39	JAN K. RAINS	57	100 M. FREE WOMEN 60-64		
7:58.84	SUSAN SPRINGER	53	50 M. BACK WOMEN 55-59			4:21.59	ELIZABETH MOORE	57	1:17.99	CLARA WALKER	89
8:05.91	INGRID STINE	52	41.20	ROXANNE MOTTER	90	50 M. FLY WOMEN 55-59			1:22.32	JEAN TROY	64
<u>50 M. FREE WOMEN 55-59</u>			41.34	NANCY BROWN	55	38.04	GAIL ROPER	86	1:22.99	ANNE ADAMS	63
31.83	JAYNE BRUNER	89	44.55	ANN CHAMP	56	42.10	ANNE MCGUIRE	57	1:27.66	ANN M PISCIOTTA	60
37.13	BEVERLY MYERS	56	45.33	SUZANNE E ROBBINS	57	42.28	BARBARA CALLISON	58	1:31.42	BERNA M BENNETT	64
39.86	JAN RAINS	57	48.39	MARIA YUNGEL	59	44.31	ADRIENNE PIPES	57	1:32.19	BERNIECE GREETHAM	64
40.40	ADRIENNE PIPES	57	49.28	H. BERNING	58	51.56	SHIRLEY BEHELER	57	1:33.18	PAT DOTSON	63
40.80	MOLLIE M HUFF	58	50.02	KATHIE THEIS	59	51.73	DONNA MONROE	57	1:33.22	CAROLYN DERR	63
40.90	DONNA MONROE	57	50.95	MOLLIE M HUFF	58	52.52	DONNA EDELBAUM	58	1:35.43	JACQUELINE DUNLOP	60
41.23	MARTI VILLARREAL	55	51.65	MARTI VILLARREAL	55	53.21	MARIA YUNGEL	59	1:39.12	ANN SHENCK DALLAM	61
43.14	DORA COFFELT	56	51.85	PATRICIA MOYNAHAN	56	56.26	E. MOORE	57	1:39.65	DORTHEA SCRAK	61
43.22	J. MOIR	59	52.40	PAT PETERSEN	56	57.81	PAT PETERSEN	56	200 M. FREE WOMEN 60-64		
43.44	H. BERNING	58	100 M. BACK WOMEN 55-59			58.33	JOYCE VOIT	56	2:50.94	CLARA WALKER	89
43.89	JUDY TILARO	56	1:28.79	NANCY BROWN	91	100 M. FLY WOMEN 55-59			3:03.03	JEAN TROY	64
100 M. FREE WOMEN 55-59			1:28.79	NANCY BROWN	55	1:30.53	JAYNE BRUNER	89	3:04.88	ANNE ADAMS	63
1:11.63	JAYNE BRUNER	89	1:34.79	ANN CHAMP	56	1:35.95	ANNE MCGUIRE	57	3:17.61	BERNIECE GREETHAM	64
1:21.39	BEVERLY MYERS	56	1:42.11	SUZANNE E ROBBINS	57	1:45.52	BARBARA CALLISON	58	3:20.64	ANN M PISCIOTTA	60
1:25.73	NANCY BROWN	55	1:46.95	MARIA YUNGEL	59	1:47.44	ADRIENNE PIPES	57	3:23.37	EDIE GRUENDER	63
1:29.12	MARY ANN STONE	58	1:47.69	LILLY KRON	59	1:58.45	LILLY KRON	59	3:35.40	ANN DALLAM	61
1:30.43	ADRIENNE PIPES	57	1:51.86	BARBARA ANDERSON	57	2:00.84	SHIRLEY BEHELER	57	3:35.44	BOBBI TURCOTTE	64
1:30.73	JAN RAINS	57	1:52.65	KATHIE THEIS	59	2:17.03	JOYCE VOIT	56	3:40.01	DORTHEA SCRAK	61
1:31.76	DONNA MONROE	57	1:52.72	SHIRLEY BEHELER	57	2:39.02	V. HANSEN	59	3:49.56	NANCY REED	64

TOP TEN

SHORT COURSE METERS

3:53.37 RUTH FARNHAM 61	45.64 ANN M PISCIOTTA 60	3:35.34 NANCY MACBETH 62	13:25.24 PETEY SMITH 66
400 M. FREE WOMEN 60-64	48.16 CAROL TAYLOR 62	3:38.91 DELLA M SEHORN 64	14:27.73 GRACE ALTUS 67
6:02.43 CLARA WALKER 87	48.70 CAROL FERGUSON 60	3:43.32 BERNIECE GREETHAM 64	15:43.00 DIANA SILVA 68
7:00.93 PAT DOTSON 63	50.70 JACQUELINE DUNLOP 60	3:47.43 JACQUELINE DUNLOP 60	16:23.04 CLARA SOTAK 67
7:13.02 BARBARA OWENS 62	51.63 NANCY MACBETH 62	4:01.33 GAY COLLINS 61	16:45.18 DORIS PETERS 68
7:20.12 CAROLYN DERR 63	53.46 ANN DALLAM 61	4:07.53 JOAN CAMPBELL 61	16:55.57 MARJORIE NEWMAN 67
7:20.89 EDIE GRUENDER 63	54.64 PAT DOTSON 63	4:10.48 MARIAN WOLLE 63	17:27.60 JEAN BEERS 69
7:23.59 PEGGY KNOWLES 62	55.48 HEDY ESPOSITO 62	4:13.07 BOBBI TURCOTTE 64	18:22.50 ELINOR WRIGHT 66
7:26.35 ANN DALLAM 61	56.13 GAY COLLINS 61	4:19.67 MARIANNA HAGAN 62	1500 M. FREE WOMEN 65-69
7:34.09 BOBBI TURCOTTE 64	59.07 MARIAN WOLLE 63	400 M. I.M. WOMEN 60-64	23:48.62 CLARA WALKER 91
7:50.81 DORTHEA SCRAK 61	100 M. BRST WOMEN 60-64	6:58.97 CLARA WALKER 91	23:48.62 CLARA WALKER 65
7:54.27 JOAN CAMPBELL 61	1:39.26 ANN PISCIOTTA 91	6:58.97 CLARA WALKER 64	24:41.83 JUNE KRAUSER 65
7:55.94 MATHILDE HUBER 63	1:39.26 ANN M PISCIOTTA 60	7:31.44 ANN M PISCIOTTA 60	27:02.57 GRACE ALTUS 67
800 M. FREE WOMEN 60-64	1:46.48 CAROL TAYLOR 62	7:52.69 NANCY MACBETH 62	32:37.99 MARJORIE NEWMAN 67
12:21.67 CLARA WALKER 90	1:48.64 CAROL FERGUSON 60	8:04.68 CAROL TAYLOR 62	33:59.41 GLADYS OLSEN 65
13:54.00 ANN M PISCIOTTA 60	1:51.15 NANCY MACBETH 62	8:09.63 JACQUELINE DUNLOP 60	34:20.49 ELINOR WRIGHT 66
15:08.88 EDIE GRUENDER 63	1:52.25 JACQUELINE DUNLOP 60	8:17.15 BARBARA OWENS 62	35:01.00 A.HOTTINGER 69
17:11.96 ELOISE DANTO 63	1:58.91 JOAN CAMPBELL 61	9:04.82 MARY J MULLINS 60	37:41.87 MARION CHADWICK 69
17:20.95 NANCY REED 64	2:00.43 BARBARA OWENS 62	50 M. FREE WOMEN 65-69	60:05.08 FRANCES GRAY 65
17:25.52 RUTH FARNHAM 61	2:04.39 MARIANNA HAGAN 62	35.76 CLARA WALKER 91	50 M. BACK WOMEN 65-69
19:49.40 MARY BOAZ 62	2:07.67 MARIAN WOLLE 63	35.76 CLARA WALKER 65	40.48 DORIS STEADMAN 89
22:39.80 FRANCES HOLMES 63	2:12.71 MATHILDE HUBER 63	37.10 DOROTHY DONNELLY 69	48.11 REGAN KENNER 67
1500 M. FREE WOMEN 60-64	200 M. BRST WOMEN 60-64	37.61 PETEY SMITH 66	49.01 JEANNE MERRYMAN 68
23:28.15 CLARA WALKER 90	3:36.01 ANN PISCIOTTA 91	39.04 JEAN SCHNORBUS 65	49.25 JEAN SCHNORBUS 65
26:21.14 ANN M PISCIOTTA 60	3:36.01 ANN M PISCIOTTA 60	40.33 JUNE KRAUSER 65	49.38 JUNE KRAUSER 65
28:57.55 EDIE GRUENDER 63	3:49.95 CAROL FERGUSON 60	40.44 JEANNE MERRYMAN 68	50.86 PETEY MH. SMITH 67
30:41.08 MARIAN WOLLE 63	4:25.79 MARIAN WOLLE 63	40.70 SUZANNE GRAHAM 65	50.99 M.J. AMSBARY 66
31:25.21 SR. MADONNA BUDER 60	4:43.65 SR. MADONNA BUDER 60	40.88 RUTH BAAR 68	51.27 MARGE BOWDON 67
32:06.44 NANCY REED 64	5:08.66 ANN MARTIN 62	41.89 S.HASSELBACHER 65	51.47 DOT DONNELLY 69
32:39.00 ELOISE DANTO 63	50 M. FLY WOMEN 60-64	42.64 LOIS NOCHMAN 66	51.87 S. DARROW 67
37:35.39 MARY BOAZ 62	39.64 ANNE ADAMS 89	100 M. FREE WOMEN 65-69	52.09 ALICIA COLEMAN 65
50 M. BACK WOMEN 60-64	41.13 ANNE ADAMS 63	1:20.80 CLARA WALKER 91	100 M. BACK WOMEN 65-69
39.60 CLARA WALKER 89	45.02 NANCY MACBETH 62	1:20.80 CLARA WALKER 65	1:30.41 DORIS STEADMAN 89
40.81 CLARA WALKER 64	47.17 ANN DALLAM 61	1:23.28 PETEY SMITH 66	1:43.97 REGAN KENNER 67
46.10 BERNIECE GREETHAM 64	50.63 JACQUELINE DUNLOP 60	1:27.68 JUNE KRAUSER 65	1:46.47 JUNE KRAUSER 65
46.49 NANCY MACBETH 62	53.17 GAY COLLINS 61	1:32.53 DOROTHY DONNELLY 69	1:49.94 M.J. AMSBARY 66
47.42 DELLA M SEHORN 64	54.89 ROBERTA TURCOTTE 63	1:34.18 JEAN SCHNORBUS 65	1:50.65 JEANNE MERRYMAN 68
48.01 JACQUELINE DUNLOP 60	55.57 CAROLYN DERR 63	1:35.03 RUTH BAAR 68	1:53.00 ALICIA COLEMAN 66
48.48 PEGGY KNOWLES 62	55.77 BETTY KAKOS 60	1:35.77 SUZANNE GRAHAM 65	1:53.07 NANCY PHILLIPS 69
50.48 BERNA M BENNETT 64	56.37 BARBARA OWENS 62	1:36.53 GRACE ALTUS 67	1:57.12 JEAN SCHNORBUS 65
51.06 GAY COLLINS 61	57.10 JOAN CAMPBELL 61	1:38.03 LOIS NOCHMAN 66	1:57.68 DIANA SILVA 69
51.39 ROBERTA TURCOTTE 63	100 M. FLY WOMEN 60-64	1:38.78 NANCY PHILLIPS 69	2:04.79 H.HUGGINS 69
51.66 MARGARET JUENKE 63	1:36.95 PAT DOTSON 87	200 M. FREE WOMEN 65-69	2:05.18 RUTH BAAR 68
51.66 BARBARA OWENS 62	1:45.55 ANN M PISCIOTTA 60	3:03.63 PETEY SMITH 91	200 M. BACK WOMEN 65-69
100 M. BACK WOMEN 60-64	1:47.67 NANCY MACBETH 62	3:03.63 PETEY SMITH 66	3:15.72 DORIS STEADMAN 89
1:29.13 CLARA WALKER 89	1:55.73 ANN SHENCK DALLAM 61	3:04.70 CLARA WALKER 65	3:38.79 JUNE KRAUSER 65
1:39.88 NANCY MACBETH 62	2:04.49 GAY COLLINS 61	3:06.30 JUNE KRAUSER 65	3:46.26 REGAN KENNER 67
1:43.17 BERNIECE GREETHAM 64	2:05.55 MARY J MULLINS 60	3:20.27 DOROTHY DONNELLY 69	3:57.35 ALICIA COLEMAN 66
1:45.10 DELLA M SEHORN 64	2:09.27 MARIANNA HAGAN 62	3:20.40 GRACE ALTUS 67	4:02.90 NANCY PHILLIPS 69
1:45.80 JACQUELINE DUNLOP 60	2:12.62 MARIAN WOLLE 63	3:28.48 RUTH BAAR 68	4:03.75 M.J. AMSBARY 66
1:46.48 PEGGY KNOWLES 62	200 M. FLY WOMEN 60-64	3:36.65 RUTH MANFREDI 67	4:11.54 DIANA SILVA 69
1:48.98 MARY J MULLINS 60	3:32.29 JUNE KRAUSER 90	3:37.56 NANCY PHILLIPS 69	4:12.41 LOIS NOCHMAN 67
1:56.65 JOAN CAMPBELL 61	3:52.41 ANN M PISCIOTTA 60	3:45.86 MAURINE KORNFELD 69	4:24.57 JAE HOWELL 68
1:57.49 MARGARET JUENKE 63	4:18.91 ANN SHENCK DALLAM 61	3:55.89 FAY BECK 65	4:29.17 ELSIE STEVENS 69
2:00.20 MARIANNA HAGAN 62	5:17.61 ANN MARTIN 62	400 M. FREE WOMEN 65-69	4:37.07 MAURINE KORNFELD 69
2:01.56 PEGGY SANBORN 64	100 M. I.M. WOMEN 60-64	6:16.83 CLARA WALKER 91	50 M. BRST WOMEN 65-69
200 M. BACK WOMEN 60-64	1:27.50 CLARA WALKER 89	6:16.83 CLARA WALKER 65	47.39 BETTY CHRISTIAN 89
3:16.14 DORIS STEADMAN 88	1:28.62 CLARA WALKER 64	6:25.20 JUNE KRAUSER 65	50.08 M.J. AMSBARY 66
3:39.37 NANCY MACBETH 62	1:37.49 NANCY MACBETH 62	6:32.70 PETEY SMITH 66	50.31 ALICIA COLEMAN 65
3:43.31 BERNIECE GREETHAM 64	1:37.52 ANN M PISCIOTTA 60	7:25.97 GRACE ALTUS 67	50.39 REGAN KENNER 67
3:46.36 MARY J MULLINS 60	1:40.53 JEAN TROY 64	7:34.80 RUTH MANFREDI 67	50.63 BETH Blichfeldt 65
3:52.88 PEGGY KNOWLES 62	1:42.99 JACQUELINE DUNLOP 60	7:37.73 RUTH BAAR 68	50.69 JUNE KRAUSER 65
3:55.02 JACQUELINE DUNLOP 60	1:43.47 DELLA M SEHORN 64	8:00.95 CLARA SOTAK 67	53.82 SUZANNE GRAHAM 65
4:04.17 GAY COLLINS 61	1:46.44 PAT DOTSON 63	8:01.77 FAY BECK 65	54.52 S.HASSELBACHER 65
4:10.94 MARIAN WOLLE 63	1:50.62 ANN DALLAM 61	8:48.89 GLADYS OLSEN 65	55.75 MURIEL FLYNN 67
4:12.19 BOBBI TURCOTTE 64	1:50.71 ROBERTA TURCOTTE 63	9:06.05 ELINOR WRIGHT 66	56.74 JAE HOWELL 68
4:12.70 PEGGY SANBORN 64	1:52.76 GAY COLLINS 61	800 M. FREE WOMEN 65-69	57.31 MARGE BOWDON 67
4:26.12 BARBARA PETERS 62	200 M. I.M. WOMEN 60-64	12:38.09 CLARA WALKER 91	100 M. BRST WOMEN 65-69
50 M. BRST WOMEN 60-64	3:14.28 CLARA WALKER 90	12:38.09 CLARA WALKER 65	1:46.82 REGAN KENNER 90
45.39 CAROL TAYLOR 89	3:16.58 CLARA WALKER 64	13:01.17 JUNE KRAUSER 65	1:48.51 JUNE KRAUSER 65

TOP TEN SHORT COURSE METERS

1:50.10 REGAN KENNER	67	4:00.39 DOROTHY DONNELLY	69	16:58.51 NANCY PHILLIPS	70	2:37.15 JUDY MELCHER	71
1:52.99 BETH BLICHFELDT	65	4:15.04 NANCY PHILLIPS	69	17:41.41 KAY SCHIMPF	74	2:46.24 DOROTHEA WOODSIDE	73
1:53.48 ALICIA COLEMAN	65	4:19.94 MURIEL FLYNN	67	18:05.39 GERTRUDE ZINT	74	3:27.03 MAUREEN SCHMAHL	70
1:54.86 M.J. AMSBARY	66	4:27.72 MARY WIXTED	69	20:54.58 RUTH WUNDERLICH	73	200 M. BRST WOMEN 70-74	
2:01.21 MURIEL FLYNN	67	4:28.32 GLADYS OLSEN	65	1500 M. FREE WOMEN 70-74		4:11.18 GERTRUD ZINT	87
2:03.57 JAE HOWELL	68	4:30.14 DORIS PETERS	68	28:29.85 RITA SIMONTON	90	4:30.36 GERTRUDE ZINT	74
2:13.45 JEAN BEERS	69	400 M. I.M. WOMEN 65-69		28:54.91 RITA SIMONTON	73	4:48.03 AGOTA FROHS	70
2:14.10 LOIS NOCHMAN	66	7:19.42 JUNE KRAUSER	91	30:53.95 BILLIE BURRILL	70	4:48.34 PAULINE STANGEL	70
2:14.62 DORIS PETERS	68	7:19.42 JUNE KRAUSER	65	32:10.42 Y.FRISCHHERTZ	74	4:51.09 KAY SCHIMPF	74
200 M. BRST WOMEN 65-69		8:14.36 ALICIA COLEMAN	65	34:59.12 GERTRUDE ZINT	74	5:23.74 SALLY JOY	74
3:48.71 REGAN KENNER	90	8:26.97 PETEY MH. SMITH	67	37:28.19 MARION CHADWICK	70	5:27.73 LIBBY POOLE	71
3:52.60 JUNE KRAUSER	65	9:08.39 JAE HOWELL	68	38:28.66 RACHEL ERWIN	72	5:35.81 MARGARET SAMSON	74
3:54.97 REGAN KENNER	67	9:10.91 GRACE ALTUS	67	39:38.15 RUTH WUNDERLICH	73	6:54.79 RACHEL ERWIN	72
4:03.66 BETH BLICHFELDT	65	9:28.39 JUNE REYNOLDS	69	50 M. BACK WOMEN 70-74		7:02.45 MARION CHADWICK	70
4:04.60 M.J. AMSBARY	66	10:24.48 RENEE LANDAUER	68	49.00 NANCY PHILLIPS	91	50 M. FLY WOMEN 70-74	
4:21.50 MURIEL FLYNN	68	10:42.92 MARJORIE NEWMAN	67	49.00 NANCY PHILLIPS	70	51.96 GERTRUD ZINT	89
4:23.15 GLADYS OLSEN	65	12:51.36 ELFIE STEVENIN	69	51.92 Y.FRISCHHERTZ	74	54.38 NANCY PHILLIPS	70
4:33.32 JAE HOWELL	68	50 M. FREE WOMEN 70-74		54.29 JOSEPHINE PALLIN	71	59.36 ZADA W TAFT	72
4:39.43 LOIS NOCHMAN	67	40.42 LOUISE DONOVAN	89	54.53 GERTRUDE ZINT	74	1:00.04 GERTRUDE ZINT	74
4:48.77 JEAN BEERS	69	43.70 NANCY PHILLIPS	70	54.76 ANNALOU CARRIER	71	1:00.37 DOROTHY KIMMEL	70
4:50.15 MAUDENE SCHULZE	67	44.08 B.ANN BURRILL	70	56.08 IRENE SANDAHL	70	1:02.09 HELEN HUMMER	72
50 M. FLY WOMEN 65-69		46.46 Y.FRISCHHERTZ	74	1:00.18 M. STEINBLISS	71	1:03.63 KAY SCHIMPF	74
43.93 FLORENCE CARR	90	47.20 IRENE SANDAHL	70	1:01.26 EDITH GLUSAC	72	1:07.24 VIOLA THOMPSON	73
44.58 JUNE KRAUSER	65	47.45 MARGARET NAGLE	74	1:01.98 MARGARET NAGLE	74	1:07.39 FRAN ZEUMER	71
49.91 JEANNE MERRYMAN	68	47.93 HELEN HUMMER	72	1:04.67 KAY SCHIMPF	74	1:08.29 LIBBY POOLE	71
50.93 LOIS NOCHMAN	67	48.24 JOSEPHINE PALLIN	71	100 M. BACK WOMEN 70-74		1:09.42 ROSEMARY KARIKER	72
51.79 DOT DONNELLY	69	49.41 ANNALOU CARRIER	71	1:51.64 Y. FRISCHHERTZ	90	100 M. FLY WOMEN 70-74	
52.14 DIANA SILVA	68	49.75 GERTRUDE ZINT	74	1:55.76 NANCY PHILLIPS	70	2:04.25 GERTRUD ZINT	88
53.37 ALICIA COLEMAN	66	51.13 AGOTA FROHS	70	1:57.02 Y.FRISCHHERTZ	74	2:12.35 GERTRUDE ZINT	74
57.23 S.HASSELBACHER	65	100 M. FREE WOMEN 70-74		2:03.38 ANNALOU CARRIER	71	2:15.20 ZADA W TAFT	72
57.28 RUTH MANFREDI	67	1:31.84 LOUISE DONOVAN	88	2:06.20 ZADA W TAFT	72	2:22.24 HELEN HUMMER	72
57.78 GRACE ALTUS	67	1:38.77 B.ANN BURRILL	70	2:06.91 JOSEPHINE PALLIN	71	2:23.48 KAY SCHIMPF	74
58.29 JAE HOWELL	68	1:41.29 NANCY PHILLIPS	70	2:07.06 GERTRUDE ZINT	74	2:36.65 ROSEMARY KARIKER	72
100 M. FLY WOMEN 65-69		1:47.83 Y.FRISCHHERTZ	74	2:13.34 M. STEINBLISS	71	2:38.95 PAT MATTHIESEN	74
1:38.74 JUNE KRAUSER	91	1:50.43 IRENE SANDAHL	70	2:19.28 MAXINE CARLSON	71	2:49.59 DOROTHY KIMMEL	70
1:38.74 JUNE KRAUSER	65	1:51.57 ANNALOU CARRIER	71	2:21.83 KAY SCHIMPF	74	3:03.46 RUTH WUNDERLICH	73
1:56.53 LOIS NOCHMAN	66	1:51.58 GERTRUDE ZINT	74	2:24.24 VIOLA THOMPSON	73	3:14.68 ELFIE STEVENIN	70
1:57.90 ALICIA COLEMAN	66	1:54.10 MARGARET NAGLE	74	200 M. BACK WOMEN 70-74		4:38.32 MARION CHADWICK	70
2:04.73 DIANA SILVA	69	1:55.98 JOSEPHINE PALLIN	71	3:56.72 Y. FRISCHHERTZ	87	200 M. FLY WOMEN 70-74	
2:09.11 JAE HOWELL	68	2:03.88 LIBBY POOLE	71	4:04.86 NANCY PHILLIPS	70	4:36.96 MAXINE MERLINO	86
2:14.80 GLADYS OLSEN	65	2:04.59 KAY SCHIMPF	74	4:07.17 Y.FRISCHHERTZ	74	4:59.33 RITA SIMONTON	73
2:16.32 JUNE REYNOLDS	69	200 M. FREE WOMEN 70-74		4:22.89 GERTRUDE ZINT	74	5:20.53 KAY SCHIMPF	74
2:18.16 MARY WIXTED	69	3:28.41 LENORE WINGARD	84	4:42.06 M. STEINBLISS	71	5:25.14 GERTRUDE ZINT	74
2:19.58 SUE MCGAUGHEY	69	3:33.64 RITA SIMONTON	73	4:52.29 KAY SCHIMPF	74	5:41.91 PAT MATTHIESEN	74
3:07.66 ELFIE STEVENIN	69	3:41.89 B.ANN BURRILL	70	4:57.13 MAXINE CARLSON	71	5:49.72 ROSEMARY KARIKER	72
200 M. FLY WOMEN 65-69		3:42.10 NANCY PHILLIPS	70	5:00.36 SALLY JOY	74	5:54.12 HELEN HUMMER	72
3:36.03 JUNE KRAUSER	91	3:54.09 Y.FRISCHHERTZ	74	5:02.18 LUELLA HEATH	71	6:49.38 ELFIE STEVENIN	70
3:36.03 JUNE KRAUSER	65	4:00.61 GERTRUDE ZINT	74	5:23.09 MARGARET SAMSON	74	100 M. I.M. WOMEN 70-74	
4:34.38 JAE HOWELL	68	4:03.88 IRENE SANDAHL	70	6:13.45 ELFIE STEVENIN	70	1:50.32 GERTRUD ZINT	88
4:43.02 GLADYS OLSEN	65	4:05.08 ANNALOU CARRIER	71	50 M. BRST WOMEN 70-74		1:55.63 NANCY PHILLIPS	70
5:02.65 JUNE REYNOLDS	69	4:15.79 MARGARET NAGLE	74	50.95 GERTRUD ZINT	87	1:58.99 GERTRUDE ZINT	74
6:35.74 ELFIE STEVENIN	69	4:18.60 EDNA LAFLIN	73	54.82 GERTRUDE ZINT	74	2:02.49 IRENE SANDAHL	70
100 M. I.M. WOMEN 65-69		4:21.05 KAY SCHIMPF	74	1:02.06 IRENE SANDAHL	70	2:09.15 Y.FRISCHHERTZ	74
1:37.84 FLORENCE CARR	90	400 M. FREE WOMEN 70-74		1:02.36 PAULINE STANGEL	70	2:13.91 AGOTA FROHS	70
1:39.11 JUNE KRAUSER	65	7:17.22 RITA SIMONTON	88	1:03.20 AGOTA FROHS	70	2:15.08 KAY SCHIMPF	74
1:47.23 ALICIA COLEMAN	65	7:28.74 RITA SIMONTON	73	1:04.45 KAY SCHIMPF	74	2:17.09 PAULINE STANGEL	70
1:48.14 DOT DONNELLY	69	7:40.85 B.ANN BURRILL	70	1:05.41 BILLIE BURRILL	70	2:20.94 VIOLA THOMPSON	73
1:48.34 PETEY MH. SMITH	67	8:01.23 NANCY PHILLIPS	70	1:08.32 FRAN ZEUMER	71	2:22.00 FRAN ZEUMER	71
1:50.30 BETH BLICHFELDT	65	8:16.29 Y.FRISCHHERTZ	74	1:08.47 LIBBY POOLE	71	2:30.21 JEAN RUDOLPH	70
1:54.69 S.HASSELBACHER	65	8:24.05 ZADA W TAFT	72	1:09.63 DOROTHEA WOODSIDE	73	200 M. I.M. WOMEN 70-74	
1:59.48 DIANA SILVA	68	8:42.77 KAY SCHIMPF	74	1:10.61 VIOLA THOMPSON	73	4:04.81 RITA SIMONTON	88
1:59.59 MARGE BOWDON	67	8:49.93 GERTRUDE ZINT	74	100 M. BRST WOMEN 70-74		4:15.41 RITA SIMONTON	73
2:00.00 RUTH MANFREDI	67	8:51.10 EDNA LAFLIN	73	1:55.84 GERTRUD ZINT	87	4:22.33 NANCY PHILLIPS	70
2:04.63 GRACE ALTUS	67	8:58.02 MARGARET NAGLE	74	2:08.93 GERTRUDE ZINT	74	4:28.55 GERTRUDE ZINT	74
200 M. I.M. WOMEN 65-69		9:22.61 MARION CHADWICK	70	2:15.84 PAULINE STANGEL	70	4:47.11 ZADA W TAFT	72
3:18.77 CLARA WALKER	91	800 M. FREE WOMEN 70-74		2:24.07 KAY SCHIMPF	74	4:56.60 KAY SCHIMPF	74
3:18.77 CLARA WALKER	65	15:06.99 RITA SIMONTON	89	2:29.56 Y.FRISCHHERTZ	74	5:18.87 PAT MATTHIESEN	74
3:30.06 JUNE KRAUSER	65	15:13.49 RITA SIMONTON	73	2:32.17 LIBBY POOLE	71	5:19.96 ROSEMARY KARIKER	72
3:59.43 BETH BLICHFELDT	65	16:30.72 BILLIE BURRILL	70	2:32.36 EDITH GLUSAC	72	5:57.55 VIRGINIA ZYLSTRA	72
3:59.99 PETEY MH. SMITH	67	16:50.71 Y.FRISCHHERTZ	74	2:36.20 PAT MATTHIESEN	74	6:19.05 MARION CHADWICK	70

TOP TEN SHORT COURSE METERS

6:22.47 ELFIE STEVENIN 70	1:53.00 ANNE WALKER 91	200 M. I.M. WOMEN 75-79	200 M. I.M. WOMEN 80-84
400 M. I.M. WOMEN 70-74	1:53.00 ANNE WALKER 75	4:17.89 MAXINE MERLINO 88	5:23.78 ELSA MATTILA 91
8:34.79 RITA SIMONTON 88	1:58.66 MARIE WICKLUN 77	4:45.68 MAXINE MERLINO 78	5:23.78 ELSA MATTILA 80
8:47.01 GERTRUDE ZINT 74	2:23.15 PAT MATTHIESEN 75	5:17.97 PAT MATTHIESEN 75	9:30.44 HAZEL BRESSIE 82
8:55.12 RITA SIMONTON 73	2:30.55 MARY LATHRAM 75	5:54.10 ANNE WILDER 78	400 M. I.M. WOMEN 80-84
10:05.08 KAY SCHIMPF 74	2:34.54 LOIS ELLERT 76	6:32.32 RUTH RIDENOUR 77	11:19.93 ELSA MATTILA 91
11:50.37 RUTH WUNDERLICH 73	2:45.10 BUZ CATLIN 77	6:57.60 HELENA HOFFMAN 75	11:19.93 ELSA MATTILA 80
13:17.91 ELFIE STEVENIN 70	2:51.63 LEE HOLM 77	400 M. I.M. WOMEN 75-79	20:18.73 HAZEL BRESSIE 82
<u>50 M. FREE WOMEN 75-79</u>	3:15.42 MILLIE HUPP 75	9:07.66 MAXINE MERLINO 88	<u>50 M. FREE WOMEN 85-89</u>
43.98 MAXINE MERLINO 88	3:26.68 HOPE BROWNING 75	9:51.12 MAXINE MERLINO 79	1:03.78 MARIAN MCKECHNIE 89
49.26 ANNE WALKER 75	200 M. BACK WOMEN 75-79	13:48.59 HELENA HOFFMAN 75	NO SWIMMERS
50.83 MARGARET HUBBARD 76	4:01.89 MARIE WICKLUN 89	<u>50 M. FREE WOMEN 80-84</u>	100 M. FREE WOMEN 85-89
59.86 MARY LATHRAM 75	4:11.39 ANNE WALKER 75	48.76 JULIA DOLCE 89	3:01.15 ANNA BAUSCHER 89
1:02.30 ANNE WILDER 78	4:13.17 MARIE WICKLUN 77	56.17 SIGRID OLSON 80	NO SWIMMERS
1:05.43 GENEVA KAHRS 77	4:58.02 PAT MATTHIESEN 75	1:01.45 MADELINE MILLER 81	200 M. FREE WOMEN 85-89
1:06.67 BETH HANKS 75	5:05.96 MARY LATHRAM 75	1:04.92 GERALDINE TURNER 80	5:33.83 MARIAN MCKECHNIE 89
1:06.80 SALLY RYCKMAN 78	5:16.69 LOIS ELLERT 76	1:40.53 ELIZABETH DZIADUS 81	NO SWIMMERS
1:07.98 BUZ CATLIN 77	5:27.87 GENEVA KAHRS 77	100 M. FREE WOMEN 80-84	800 M. FREE WOMEN 85-89
1:08.92 LEE HOLM 77	5:51.50 LEE HOLM 77	1:54.23 JULIA DOLCE 89	24:05.34 MARIAN MCKECHNIE 89
1:10.40 HELEN OFFENHAUSER 79	6:28.87 MILLIE HUPP 75	2:13.62 SIGRID OLSON 80	NO SWIMMERS
100 M. FREE WOMEN 75-79	7:15.22 HOPE BROWNING 75	200 M. FREE WOMEN 80-84	50 M. BACK WOMEN 85-89
1:46.64 NANCY CLARK 90	50 M. BRST WOMEN 75-79	4:17.73 JULIA DOLCE 89	1:13.57 MARIAN MCKECHNIE 89
1:50.48 ANNE WALKER 75	58.91 MAXINE MERLINO 88	4:44.38 SIGRID OLSON 80	NO SWIMMERS
1:52.22 MARGARET HUBBARD 76	1:03.13 MARGARET HUBBARD 76	7:23.69 HAZEL BRESSIE 82	100 M. BACK WOMEN 85-89
1:56.61 MARIE WICKLUN 77	1:11.94 PAT MATTHIESEN 75	400 M. FREE WOMEN 80-84	2:52.17 ANNA BAUSCHER 89
2:17.63 GENEVA KAHRS 77	1:18.53 BUZ CATLIN 76	9:28.50 JULIA DOLCE 89	NO SWIMMERS
2:17.66 PAT MATTHIESEN 75	1:19.36 ANNE WILDER 78	11:39.08 EDITH HENDRY 80	200 M. BACK WOMEN 85-89
2:17.91 AGNES ROMAYKO 77	1:23.57 BETH HANKS 75	800 M. FREE WOMEN 80-84	6:00.16 MARIAN MCKECHNIE 89
2:25.32 ALICE TIGHE 76	1:26.87 ESTHER GRAFRATH 77	19:20.52 JULIA DOLCE 89	NO SWIMMERS
2:25.41 SALLY RYCKMAN 78	1:37.62 LOIS ELLERT 76	25:33.43 EDITH HENDRY 80	50 M. BRST WOMEN 85-89
2:25.85 LOIS ELLERT 76	1:41.37 ALICE TIGHE 76	1500 M. FREE WOMEN 80-84	1:37.05 KATHERINE PELTON 90
2:29.72 RUTH RIDENOUR 77	1:41.42 HELEN OFFENHAUSER 79	39:39.28 DOROTHY HOPKINS 89	NO SWIMMERS
200 M. FREE WOMEN 75-79	1:44.69 SALLY RYCKMAN 78	NO SWIMMERS	100 M. BRST WOMEN 85-89
3:57.19 MARIE WICKLUN 89	100 M. BRST WOMEN 75-79	50 M. BACK WOMEN 80-84	3:09.62 KATHERINE PELTON 90
4:15.36 JEAN D DURSTON 77	2:10.17 MAXINE MERLINO 88	1:06.51 JULIA DOLCE 89	3:49.94 KATHERINE PELTON 86
4:17.59 MARIE WICKLUN 77	2:20.76 MARGARET HUBBARD 76	1:08.93 EDITH HENDRY 80	50 M. FLY WOMEN 85-89
4:41.44 PAT MATTHIESEN 75	2:41.94 PAT MATTHIESEN 75	1:12.59 MADELINE MILLER 81	1:24.53 KATHERINE PELTON 90
5:01.44 GENEVA KAHRS 77	2:56.03 BUZ CATLIN 76	1:17.90 SIGRID OLSON 80	1:35.64 KATHERINE PELTON 86
5:05.74 AGNES ROMAYKO 77	2:57.82 ANNE WILDER 78	1:23.24 GERALDINE TURNER 80	100 M. FLY WOMEN 85-89
5:14.46 LEE HOLM 77	3:06.98 HELENA HOFFMAN 75	100 M. BACK WOMEN 80-84	3:29.58 KATHERINE PELTON 90
5:20.34 LOIS ELLERT 76	3:26.31 RUTH RIDENOUR 77	2:34.06 MEREDITH SCANLON 90	3:47.89 KATHERINE PELTON 86
5:21.68 RUTH RIDENOUR 77	200 M. BRST WOMEN 75-79	2:39.47 EDITH HENDRY 80	200 M. FLY WOMEN 85-89
5:57.73 MILLIE HUPP 75	4:35.24 MAXINE MERLINO 88	2:54.80 GERALDINE TURNER 80	7:15.07 KATHERINE PELTON 90
400 M. FREE WOMEN 75-79	5:15.49 JEAN D DURSTON 77	3:39.12 HAZEL BRESSIE 82	7:46.63 KATHERINE PELTON 86
8:11.07 MAXINE MERLINO 88	6:38.58 ANNE WILDER 78	200 M. BACK WOMEN 80-84	100 M. I.M. WOMEN 85-89
10:04.13 GENEVA KAHRS 77	6:42.02 HELENA HOFFMAN 75	5:18.44 SALLY SCOTT 88	3:00.23 KATHERINE PELTON 90
10:37.44 AGNES ROMAYKO 77	50 M. FLY WOMEN 75-79	6:18.04 EDITH HENDRY 80	3:37.69 KATHERINE PELTON 86
10:41.99 LEE HOLM 76	59.27 MAXINE MERLINO 88	6:28.74 GERALDINE TURNER 80	200 M. I.M. WOMEN 85-89
11:03.79 MARY LATHRAM 75	1:05.16 MAXINE MERLINO 78	50 M. BRST WOMEN 80-84	9:49.36 ANNA BAUSCHER 89
11:35.36 RUTH RIDENOUR 77	1:10.43 ANNE WILDER 78	1:13.55 MADELEINE MILLER 90	NO SWIMMERS
12:10.97 MILLIE HUPP 75	1:13.52 PAT MATTHIESEN 75	1:17.38 MADELINE MILLER 81	400 M. I.M. WOMEN 85-89
800 M. FREE WOMEN 75-79	1:31.99 ESTHER GRAFRATH 77	100 M. BRST WOMEN 80-84	15:34.06 KATHERINE PELTON 91
17:16.06 MAXINE MERLINO 88	100 M. FLY WOMEN 75-79	2:40.99 MADELEINE MILLER 90	15:34.06 KATHERINE PELTON 86
NO SWIMMERS	2:12.17 MAXINE MERLINO 88	NO SWIMMERS	
1500 M. FREE WOMEN 75-79	2:26.47 MAXINE MERLINO 78	200 M. BRST WOMEN 80-84	
33:53.33 MAXINE MERLINO 88	2:39.39 ANNE WILDER 78	5:33.05 ELSA MATTILA 91	
44:26.38 ANNE WILDER 78	2:43.37 PAT MATTHIESEN 75	5:33.05 ELSA MATTILA 80	
50 M. BACK WOMEN 75-79	200 M. FLY WOMEN 75-79	50 M. FLY WOMEN 80-84	
52.11 MARIE WICKLUN 89	4:48.50 MAXINE MERLINO 88	1:19.40 KATHERINE PELTON 87	
51.87 ANNE WALKER 75NV	5:17.21 MAXINE MERLINO 79	1:34.81 MADELINE MILLER 81	
52.89 MARIE WICKLUN 77	5:20.07 JEAN D DURSTON 77	2:54.25 HAZEL BRESSIE 82	
1:05.47 MARY LATHRAM 75	6:03.31 ANNE WILDER 78	100 M. FLY WOMEN 80-84	
1:05.90 PAT MATTHIESEN 75	7:54.46 HELENA HOFFMAN 75	3:09.18 KATHERINE PELTON 86	
1:11.77 GENEVA KAHRS 77	100 M. I.M. WOMEN 75-79	6:18.56 HAZEL BRESSIE 82	
1:11.79 LOIS ELLERT 76	2:00.07 MAXINE MERLINO 88	200 M. FLY WOMEN 80-84	
1:13.87 ESTHER GRAFRATH 77	2:10.08 MAXINE MERLINO 78	6:20.56 ELSA MATTILA 91	
1:14.62 BETH HANKS 75	2:28.52 PAT MATTHIESEN 75	6:20.56 ELSA MATTILA 80	
1:15.22 BUZ CATLIN 76	2:46.86 BUZ CATLIN 76	100 M. I.M. WOMEN 80-84	
1:17.15 HELEN OFFENHAUSER 79	2:49.36 ESTHER GRAFRATH 77	2:40.92 DOROTHY HOPKINS 89	
100 M. BACK WOMEN 75-79	3:07.91 RUTH RIDENOUR 77	2:46.20 MADELINE MILLER 81	

TOP TEN SHORT COURSE METERS

<u>50 M. FREE M E N 19-24</u>												
24.62 RANDY SPROUT	89		33.18 STUART BARTON	23		58.81 GREG MACKEM	91		58.27 RICHARD HADDAD	25		
24.98 ALBERT BERGEN	24		33.61 WILLIAM SCHWARTZ	23		58.81 GREGORY N MACKEM	23		58.27 SCOTT SOUTHRON	27		
25.55 KIRK CLEAR	24		34.37 ROBERT KING	23		1:01.76 DANIEL BEATTY	24		58.92 MICHAEL HARRISON	26		
25.74 WADE RIDDICK	22		34.49 JESSE RIDENOUR	20		1:05.00 JAMES BYNUM	23		59.10 GLEN HANSEN	25		
25.86 MICHAEL BELL	24		100 M. BACK M E N 19-24			1:06.37 MICHAEL BELL	24		59.63 JOHN ROCCO	27		
25.92 ANDREW REID	24		1:04.30 PATRICK KELLEY	88		1:06.53 ALBERT BERGEN	24		200 M. FREE M E N 25-29			
26.21 JOHN BELL III	24		1:10.55 DIRK BOUMA	23		1:08.52 WILLIAM SCHWARTZ	23		1:54.00 BRAD WELLS	89		
26.69 DONALD REID	24		1:10.58 KIRK CLEAR	24		1:09.83 KIRK CLEAR	24		2:02.14 STEVE FISHER	29		
27.31 THOM HALPIN	24		1:11.47 LJ SCHMITT	23		1:10.40 MIKE FALATI	23		2:03.39 MIKE ORN	29		
27.39 STUART BARTON	23		1:12.72 STUART BARTON	23		1:10.97 WADE RIDDICK	22		2:06.61 STEVE SCHMIDT	28		
27.45 GAVIN BLACK	23		1:12.85 MICHAEL MOORE	24		1:12.91 ANDREW REID	24		2:08.32 SCOTT SOUTHRON	27		
100 M. FREE M E N 19-24			1:14.95 MICHAEL MAHON	24		200 M. FLY M E N 19-24			2:08.51 JEFF NEUFELD	29		
54.21 GREG MACKEM	91		1:15.58 MIKE FALATI	23		2:13.68 RICHARD SHINNICK	90		2:11.71 DAVID HULTQUIST	28		
54.21 GREGORY N MACKEM	23		1:17.58 MICHAEL BRADY	22		2:18.63 GREGORY N MACKEM	23		2:12.56 JUSTIN KENNEY	28		
54.90 ALBERT BERGEN	24		1:20.25 ROBERT KING	23		2:27.30 JAMES BYNUM	23		2:14.29 MARC NEIGHBOR	29		
56.86 ANDREW REID	24		1:21.08 JESSE RIDENOUR	20		2:27.86 BRIAN ELLIS	23		2:16.84 M. HALL	28		
57.02 WADE RIDDICK	22		200 M. BACK M E N 19-24			100 M. I.M. M E N 19-24			2:18.21 JOHN ROCCO	27		
57.82 BRIAN ELLIS	23		2:19.68 JOE HOESS	89		1:00.93 GREG MACKEM	91		400 M. FREE M E N 25-29			
58.64 MICHAEL BELL	24		2:32.94 DIRK BOUMA	23		1:00.93 GREGORY N MACKEM	23		4:11.70 BRAD WELLS	89		
59.27 STEVE JONES	23		2:39.93 LJ SCHMITT	23		1:04.98 ALBERT BERGEN	24		4:13.62 STEVE FISHER	29		
59.54 KIRK CLEAR	23		2:44.25 ROBERT VALENTIN	21		1:05.25 STEVE JONES	23		4:29.23 STEVE SCHMIDT	29		
59.54 CARL DUFFY	24		2:46.25 KIRK CLEAR	24		1:05.98 BRIAN ELLIS	23		4:30.92 RANDALL EICKHOFF	26		
1:00.36 DONALD REID	24		2:59.66 JAMES LORIMER	22		1:07.43 MICHAEL MOORE	24		4:31.02 JUSTIN FARABEE	26		
200 M. FREE M E N 19-24			3:06.27 JOSEPH PENTA	20		1:08.36 ANDREW REID	24		4:38.80 SCOTT SOUTHRON	27		
2:01.20 MARK MACDONALD	91		3:07.76 ROBERT KING	23		1:08.55 ANDREW GEISZLER	22		4:43.03 DAVID HULTQUIST	28		
2:01.20 MARK MACDONALD	23		50 M. BRST M E N 19-24			1:08.97 JOHN BELL III	24		4:51.98 ROBERT GONZALES	29		
2:04.30 WADE RIDDICK	22		31.68 MIKE EWING	91		1:09.20 JAMES TURNER	22		4:53.73 PAUL IKIOKA	27		
2:05.31 ALBERT BERGEN	24		31.68 MIKE EWING	24		1:09.44 KIRK CLEAR	24		4:55.02 GLEN HANSEN	25		
2:05.86 JAMES ALLEN	24		33.70 ANDREW GEISZLER	22		200 M. I.M. M E N 19-24			4:55.12 M. HALL	28		
2:10.07 STEVE JONES	23		34.04 STEVE JONES	23		2:14.07 GREG MACKEM	91		800 M. FREE M E N 25-29			
2:12.40 THOMAS SPINO	24		34.34 WADE RIDDICK	22		2:14.07 GREGORY N MACKEM	23		8:46.19 STEVEN FISHER	91		
2:14.86 MICHAEL MOORE	24		35.26 KIRK CLEAR	23		2:22.24 ALBERT BERGEN	24		8:46.19 STEVE FISHER	29		
2:15.87 ROBERT VALENTIN	21		36.59 THOM HALPIN	24		2:23.59 DANIEL BEATTY	24		9:22.02 PATRICK DUGGAN	28		
2:16.78 JOHN BANBURY	23		36.67 JESSE RIDENOUR	20		2:24.64 STEVE JONES	23		9:44.76 HUNTR GRAHAM	28		
2:17.80 MICHAEL BRADY	22		36.72 KENNETH YOUNTS	24		2:33.87 WILLIAM SCHWARTZ	23		9:53.53 JUSTIN KENNEY	28		
400 M. FREE M E N 19-24			37.02 JAMES SEARCY	23		2:34.29 DIRK BOUMA	23		9:56.60 ROBERT GONZALES	29		
4:16.24 GREG MACKEM	91		37.04 DANIEL MCGOVERN	20		2:34.96 JAMES SEARCY	23		9:58.62 DONALD SKEOCH	28		
4:16.24 GREGORY N MACKEM	23		100 M. BRST M E N 19-24			2:36.51 ROBERT VALENTIN	21		10:19.22 DAVID CORAY	28		
4:27.48 WADE RIDDICK	22		1:09.79 PETER MCCLAFFERTY87			2:38.72 CHARLES TUJO	22		10:30.21 TODD R. HOLDER	26		
4:42.27 THOMAS SPINO	24		1:12.58 ANDREW GEISZLER	22		2:49.58 KEVIN KIMPLE	21		11:03.77 PATRICK RIORDAN	29		
4:49.82 DIRK BOUMA	23		1:13.00 DANIEL BEATTY	24		400 M. I.M. M E N 19-24			11:22.73 MICHAEL HAGEN	28		
4:51.34 ROBERT VALENTIN	21		1:14.51 STEVE JONES	23		4:45.83 GREG MACKEM	91		1500 M. FREE M E N 25-29			
4:57.07 JOHN BANBURY	23		1:15.38 TYSON SALAUN	24		4:45.83 GREGORY N MACKEM	23		16:59.90 STEVEN FISHER	91		
4:57.80 JAMES BYNUM	23		1:18.36 CHARLES TUJO	22		5:14.72 STEVE JONES	23		16:59.90 STEVE FISHER	29		
5:01.04 MICHAEL BRADY	22		1:20.48 KENNETH YOUNTS	24		5:28.04 DIRK BOUMA	23		18:50.37 ROBERT GONZALES	29		
5:01.53 WILLIAM SCHWARTZ	23		1:21.19 WILLIAM SCHWARTZ	23		5:29.44 ALBERT BERGEN	24		19:01.57 CHARLIE MATTHEWS	26		
5:02.13 C.DE GRANDA	23		1:21.91 JESSE RIDENOUR	20		5:33.57 WILLIAM SCHWARTZ	23		21:10.97 SCOTT HIROSE	25		
800 M. FREE M E N 19-24			1:22.39 DANIEL MCGOVERN	20		5:33.88 ROBERT VALENTIN	21		21:17.62 JOHN ROCCO	27		
8:52.70 MICHAEL COLLINS	89		1:23.24 ROBERT CAMBIAS	23		5:46.63 JAMES SEARCY	23		21:44.47 PAUL JACOBS	29		
9:43.58 WADE RIDDICK	22		200 M. BRST M E N 19-24			5:50.38 JAMES BYNUM	23		21:45.06 PATRICK RIORDAN	29		
10:02.78 DIRK BOUMA	23		2:36.23 MICHAEL COLLINS	89		6:34.08 LJ SCHMITT	23		21:53.70 NATHANIEL WARING	27		
10:08.46 ROBERT VALENTIN	21		2:41.05 STEVE JONES	23		<u>50 M. FREE M E N 25-29</u>			22:10.53 JOHN GRANT	28		
10:52.74 QUANAH RIDENOUR	21		2:52.54 KENNETH YOUNTS	24		23.16 ROBERT PEEL	91		22:30.21 BRIAN JEFFORDS	28		
13:16.17 MARK BECKER	24		2:53.24 CHARLES TUJO	22		23.16 ROBERT PEEL	26		50 M. BACK M E N 25-29			
1500 M. FREE M E N 19-24			3:11.52 JAMES LORIMER	22		23.98 ROBERT KILLEEN	29		27.25 CLAY BRITT	89		
17:03.17 MICHAEL COLLINS	89		3:24.99 GAVIN BLACK	23		24.40 CHUCK PONTHER	28		29.45 WILLIAM DOUPE	28		
18:22.04 JAMES ALLEN	24		4:03.91 LJ SCHMITT	23		25.11 STUART CROMARTY	27		30.18 ALLEN HIGHNOTE	26		
18:25.51 WADE RIDDICK	22		50 M. FLY M E N 19-24			25.36 WILLIAM KLUG	25		30.23 TOM NORTHCUTT	26		
19:10.49 DIRK BOUMA	23		27.37 PAUL CUTLER	88		25.49 RANDY R COX	29		30.25 GERRY RODRIGUES	28		
24:45.97 MARK BECKER	24		27.47 BRIAN ELLIS	23		25.61 MICHAEL HARRISON	26		30.57 PATRICK DIGGAN	28		
24:59.82 GEORGE KLAMO	23		27.62 DANIEL BEATTY	24		25.71 PATRICK DUGGAN	28		30.68 MIKE J BROWN	27		
50 M. BACK M E N 19-24			27.80 JAMES ALLEN	24		25.78 WILLIAM DOUPE	28		30.71 DAVID MALSBUY	29		
29.62 KIRK CLEAR	91		28.28 MICHAEL BELL	24		26.01 MATT CONNERY	27		31.03 EDUARDO ALTILIO	29		
29.62 KIRK CLEAR	24		28.46 ANDREW REID	24		100 M. FREE M E N 25-29			31.07 W.VOLCKENING	25		
30.83 JOHN BELL III	24		28.82 JOHN BELL III	24		52.29 MARK NOETZEL	90		31.07 ROBERT FUENTES	28		
30.94 ALBERT BERGEN	24		29.43 WADE RIDDICK	22		54.44 MIKE ORN	29		100 M. BACK M E N 25-29			
32.19 MIKE FALATI	23		29.50 KIRK CLEAR	23		54.98 STUART CROMARTY	27		58.42 CLAY BRITT	89		
32.52 LJ SCHMITT	23		29.50 JAMES BYNUM	23		56.02 RANDY R COX	29		1:05.39 WILLIAM DOUPE	28		
32.67 JAMES TURNER	22		29.60 JEFF RUSS	22		56.62 CHUCK PONTHER	28		1:06.57 TOM NORTHCUTT	26		
			100 M. FLY M E N 19-24			57.09 STEVE FISHER	29		1:06.74 GERRY RODRIGUES	28		

TOP TEN SHORT COURSE METERS

1:08.58 ROBERT FUENTES	28	1:00.69 GERRY RODRIGUES	28	51.86 JAMES MONTGOMERY	89	31.04 JONATHAN WASHBURN	33
1:08.74 ALLEN HIGHNOTE	26	1:01.13 STUART CROMARTY	27	53.89 BRYANT LUM	30	100 M. BACK M E N 30-34	
1:09.09 SCOTT ELMER	26	1:01.55 RANDALL EICKHOFF	25	54.39 KIRK MC GOWAN	32	58.12 J. CLAY BRITT	91
1:09.63 TODD BRIGGS	28	1:01.71 KEVIN ESKO	25	55.08 ALAN ARATA	30	58.12 CLAY BRITT	30
1:10.56 RICHARD O'CONNELL	28	1:03.05 PAUL MARBLE	27	56.10 MARK BERTZ	31	1:05.15 CHARLES GROEN	31
1:11.01 MARC NEIGHBOR	29	1:03.22 STEVE SCHMIDT	29	56.79 ROBERT EBERWINE	31	1:05.24 WAYNE MULHERN	31
1:11.37 PAUL IKIOKA	27	1:03.51 ROBERT FUENTES	28	56.82 GORDON ANDREWS	31	1:05.92 TIM CALLAHAN	30
200 M. BACK M E N 25-29		1:04.32 MATTHEW LOHSL	29	57.01 MARK APPLEBY	32	1:06.46 RUDI FRONK	32
2:09.12 BRAD WELLS	89	1:04.72 BRIAN L PAKKALA	28	57.16 TOM DUNDON	31	1:07.98 BRYANT LUM	30
2:22.05 PATRICK DUGGAN	28	200 M. FLY M E N 25-29		57.24 STEVE LOWE	33	1:09.69 STEVE LOWE	33
2:22.65 WILLIAM DOUPE	28	2:10.91 TOM O'BRIEN	88	57.72 JOHN BROSIUS	32	1:09.96 BOB KANNEGIESER	34
2:29.81 GERRY RODRIGUES	28	2:19.21 RANDALL EICKHOFF	26	200 M. FREE M E N 30-34		1:10.35 THOM DAVIS	33
2:31.62 HUNTR GRAHAM	28	2:19.44 STEVE SCHMIDT	28	1:53.66 DAN STEPHENSON	89	1:10.38 CHARLES HARTJE	32
2:33.88 RICHARD O'CONNELL	28	2:20.31 GERRY RODRIGUES	28	2:03.46 ANDREW ANTONETZ	34	200 M. BACK M E N 30-34	
2:35.68 PAUL IKIOKA	27	2:22.69 STUART LONDON	25	2:04.64 GORDON ANDREWS	31	2:15.67 FRITZ LEHMAN	89
2:40.86 T. PODMAJERSKY	28	2:24.76 ROBERT FUENTES	28	2:05.26 ALAN ARATA	30	2:23.24 WAYDE MULHERN	32
2:41.84 BOB KLEMENT	27	2:26.34 PATRICK DUGGAN	28	2:05.66 DAVID BURLESON	33	2:27.90 DAVID BURLESON	33
2:55.39 BRIAN SHADLE	25	2:27.33 DONALD SKEOCH	28	2:09.10 JAMES McFARLAND	33	2:27.98 ROBERT EBERWINE	31
2:59.24 DAVID PARSONS	26	2:35.05 MATTHEW LOHSL	29	2:09.11 KARL KOLB	30	2:28.76 STEVE LOWE	33
50 M. BRST M E N 25-29		2:45.21 SHELDON SWEENEY	25	2:10.12 BOB JAROSZ	32	2:29.17 BRYANT LUM	30
29.08 JOHN WALDMAN	89	2:50.00 THOMAS SHOEMAKER	29	2:10.28 JEFF REILLY	30	2:31.76 JOHN ZELL	34
30.48 DEWEY M WYATT	27	100 M. I. M. M E N 25-29		2:10.51 SHAWN YASUTAKE	31	2:34.55 CHARLES HARTJE	32
32.03 KEVIN ESKO	25	58.82 JAMES LILLEY	89	2:10.60 BILL HENNESSY	30	2:35.62 TIM CALLAHAN	30
32.12 DAVID HORTON	29	1:02.73 MIKE ORN	29	400 M. FREE M E N 30-34		2:35.71 SHAWN YASUTAKE	31
32.29 BRIAN HERBELIN	26	1:03.43 DEWEY M WYATT	27	4:13.61 DAN GOERKE	89	2:38.95 JEB JEUTTER	30
32.36 TOM NORTHCUTT	26	1:04.38 WILLIAM KLUG	25	4:24.60 ALAN VOISARD	30	50 M. BRST M E N 30-34	
32.60 MATT CONNERY	27	1:04.42 DAN BEATTY	25	4:25.64 ANDREW ANTONETZ	34	30.11 RICH HOFSTETIER	89
32.69 MICHAEL HARRISON	26	1:04.74 PATRICK DUGGAN	28	4:26.33 MATT CLARK	34	31.15 BEN DOYLE	33
32.70 JUSTIN FARABEE	26	1:04.92 CHUCK PONTHER	28	4:28.27 ROBERT EBERWINE	31	31.67 ALLEN LYDICK	33
33.05 WES HALLMAN	25	1:05.16 TOM NORTHCUTT	26	4:28.29 ALAN ARATA	30	32.31 MIKE CASCIATO	31
33.13 DAN BEATTY	25	1:05.16 STEVE BARNICOAT	29	4:31.05 KARL KOLB	30	32.46 JOSE CUNNINGHAM	34
100 M. BRST M E N 25-29		1:05.18 KEVIN ESKO	25	4:33.70 JEFF REILLY	30	32.90 MIKE WINTERBAUER	31
1:05.09 JOHN WALDMAN	89	1:05.49 GERRY RODRIGUES	28	4:37.98 KERRY L O'BRIEN	34	32.98 MARK APPLEBY	32
1:10.23 JUSTIN FARABEE	26	200 M. I. M. M E N 25-29		4:39.50 BOB KANNEGIESER	34	33.10 KEVIN O LADD	30
1:10.56 WES HALLMAN	25	2:12.28 CLAY BRITT	89	4:40.62 ERIC SHARGO	34	33.33 CRAIG D SIHNER	31
1:10.62 KEVIN ESKO	25	2:22.19 GERRY RODRIGUES	28	800 M. FREE M E N 30-34		33.47 ALAN ARATA	30
1:11.10 TOM NORTHCUTT	26	2:23.00 ROBERT FUENTES	28	8:34.26 DAN STEPHENSON	89	33.72 BRYANT LUM	30
1:11.75 MATT CONNERY	27	2:24.22 JUSTIN FARABEE	26	9:10.57 JAMES D. BARBER	31	100 M. BRST M E N 30-34	
1:13.20 ROBERT FUENTES	27	2:25.59 JEFF NEUFELD	29	9:10.73 ALAN VOISARD	30	1:08.10 MARK SCHUMAN	88
1:14.20 GERRY RODRIGUES	28	2:27.36 MARC NEIGHBOR	29	9:23.96 ANDREW ANTONETZ	34	1:09.15 ALLEN LYDICK	33
1:14.23 DANNY BANKS	28	2:27.53 RANDALL EICKHOFF	25	9:27.28 CURT R LA COUNT	32	1:09.26 MIKE CASCIATO	31
1:14.28 DAVID ARBUTHNOT	28	2:29.16 GLEN HANSEN	25	9:27.30 ROBERT EBERWINE	31	1:09.53 BEN DOYLE	33
1:14.33 MICHAEL HARRISON	26	2:29.65 HOWARD COHEN	28	9:42.43 CHARLES HARTJE	32	1:12.15 MIKE WINTERBAUER	31
200 M. BRST M E N 25-29		2:29.92 HUNTR GRAHAM	28	9:46.86 ALAN ARATA	30	1:12.71 JOSE CUNNINGHAM	34
2:24.68 PETER MCCLAFFERTY	89	2:30.10 DON SKEOCH	27	9:53.47 MIKE LEWIS	30	1:13.09 BRYANT LUM	30
2:32.03 JUSTIN FARABEE	26	400 M. I. M. M E N 25-29		9:53.51 DONALD A UHLIR	33	1:14.87 ALAN ARATA	30
2:35.40 ROBERT FUENTES	28	4:43.99 ALLAN JAEGER	90	10:08.43 BOB JAROSZ	32	1:15.19 DAVE KRUSE	30
2:38.81 BRIAN HERBELIN	26	4:57.63 PATRICK DUGGAN	28	1500 M. FREE M E N 30-34		1:15.57 BRIAN CANINO	31
2:40.97 WES HALLMAN	25	5:04.17 GERRY RODRIGUES	28	17:11.56 MATT CLARK	90	1:16.36 BILL SALAUN	31
2:41.37 TOM NORTHCUTT	26	5:14.45 DONALD SKEOCH	28	17:38.70 ANDREW ANTONETZ	34	200 M. BRST M E N 30-34	
2:43.24 GERRY RODRIGUES	28	5:15.89 JEFF NEUFELD	29	17:50.76 MATT CLARK	34	2:30.18 JOSEPH SHORE	89
2:44.43 DAVID HORTON	29	5:18.94 HUNTR GRAHAM	28	18:26.59 ROBERT EBERWINE	31	2:33.53 MIKE CASCIATO	31
2:45.13 DONALD SKEOCH	28	5:33.64 PAUL IKIOKA	27	18:54.90 DONALD A UHLIR	33	2:34.33 BRIAN KELCA	31
2:46.09 DANNY BANKS	28	5:37.47 DANNY BANKS	28	19:10.94 TOM DUNDON	31	2:34.68 ALLEN LYDICK	33
2:48.55 DAVID ARBUTHNOT	27	6:11.46 ALEX BLAVATNIK	26	19:28.70 WAYNE MULHERN	31	2:34.81 BEN DOYLE	33
50 M. FLY M E N 25-29		6:55.67 MICHAEL MORSE	26	19:31.94 BART SIMMONS	31	2:38.93 MIKE WINTERBAUER	31
25.77 JAMES LILLEY	89	7:14.78 RICHARD BRESHEARS	25	19:47.56 MICHAEL HITCHCOCK	32	2:42.14 JEFF REILLY	30
26.12 CHUCK PONTHER	28	50 M. FREE M E N 30-34		20:33.02 THOMAS PIACENTI	34	2:45.99 JAMES ACKER	31
26.31 ROBERT KILLEEN	29	23.98 JAMES MONTGOMERY	89	20:45.40 DONALD HANIGAN	31	2:46.59 DAVE KRUSE	30
26.70 WILLIAM KLUG	25	24.16 BRYANT LUM	30	50 M. BACK M E N 30-34		2:47.88 BRIAN CANINO	31
27.85 RANDALL EICKHOFF	25	24.94 KIRK MC GOWAN	32	27.18 J. CLAY BRITT	91	2:52.46 MARK BRAUN	34
27.88 DAN BEATTY	25	25.03 JOSE CUNNINGHAM	34	27.18 CLAY BRITT	30	50 M. FLY M E N 30-34	
28.04 KEVIN ESKO	25	25.05 ALAN ARATA	30	29.90 CHARLES GROEN	31	25.06 MICHAEL BOTTOM	89
28.32 PATRICK DUGGAN	28	25.22 MICHAEL PENABAD	30	30.24 ROBERT EBERWINE	31	26.65 BRIAN KELCA	31
28.50 RANDY R COX	29	25.48 PETER EDWARDS	30	30.70 BRYANT LUM	30	26.84 BRYANT LUM	30
28.70 DAVID MALSBUY	29	25.50 K. AHERN	31	30.81 BOB JAROSZ	32	27.08 CHRIS A DIXON	33
28.76 ROBERT FUENTES	28	25.69 PETER NUNAN	33	30.85 BRIAN BLACK	31	27.09 CLAY BRITT	30
100 M. FLY M E N 25-29		25.74 TOM DUNDON	31	30.89 THOM DAVIS	33	28.14 PETER EDWARDS	30
57.07 BRAD WELLS	89	25.74 JOHN BROSIUS	32	30.93 ALAN ARATA	30	28.19 DAN REDFERN	31
59.96 CHUCK PONTHER	28	100 M. FREE M E N 30-34		31.01 GORDON ANDREWS	31	28.33 ALAN ARATA	30

TOP TEN SHORT COURSE METERS

28.44	SCOTT POORMAN	31	25.34	WILLIE C WACHOB	39	30.86	TIMOTHY HUESKEN	39	26.64	DAVID HAGUE	37
28.44	JOHN BROSIUS	32	26.04	JOEL M STAGER	38	31.11	JOHN PHILLIPS	35	27.01	JIM MONTGOMERY	36
28.63	THOM DAVIS	33	26.05	RICK KOZLOWSKI	39	31.37	GARY HAFER	39	27.98	BRYAN AUSTIN	35
100 M. FLY M E N 30-34			26.29	LEE MENCH	38	32.15	MEL LENMAN	36	28.30	BUCK SMITH	38
56.43	MICHAEL BOTTOM	89	26.40	KEVIN REEL	35	32.85	JOHN BONNING	35	28.62	THOMAS BOYD	35
58.74	BRIAN KELCA	31	100 M. FREE M E N 35-39			33.54	MIDGELY MESSICK	38	29.04	ROGER KAHN	36
1:00.94	KERRY L O'BRIEN	34	53.94	BILL VICKERY	89	33.76	HAROLD LARSON	38	29.07	MICHAEL HEATHER	37
1:02.16	ALAN ARATA	30	54.81	BRYAN AUSTIN	36	100 M. BACK M E N 35-39			29.35	STEPHEN FREEBORN	35
1:02.30	CHRIS A DIXON	33	55.58	STU MARVIN	35	1:01.45	THOMAS WOLF	90	29.52	WILLIAM BEHUN	39
1:03.03	CHARLES GROEN	31	56.54	LEE MENCH	38	1:05.31	PAUL WINDRATH	37	100 M. FLY M E N 35-39		
1:03.05	JOHN BROSIUS	32	57.13	WILLIE WACHOB	38	1:05.71	STU MARVIN	35	1:00.62	TOM PERRIN	89
1:03.27	JEFF REILLY	30	57.32	BRENT SWEITZER	39	1:06.09	JOHN PHILLIPS	35	1:02.74	REED FARRIS	36
1:03.69	BRYANT LUM	30	57.96	JOEL M STAGER	38	1:06.10	CHUCK WOLFF	39	1:04.43	MICHAEL HEATHER	37
1:04.22	KIRK BUESE	31	58.29	DAVID SHEPHERD	36	1:07.31	TIMOTHY HUESKEN	39	1:06.24	J. KRONGAARD	37
1:06.01	ANDREW ANTONETZ	34	58.64	RICK KOZLOWSKI	39	1:08.08	J. KRONGAARD	37	1:06.56	STEPHEN PECK	35
200 M. FLY M E N 30-34			58.70	ROBERT BROWN	38	1:10.62	FRANK THOMPSON	39	1:06.60	BRYAN AUSTIN	36
2:13.62	MARK SCHUMAN	88	59.07	LARRY WOOD	37	1:10.62	JOHN BONNING	35	1:06.86	FRED YAWGER	35
2:16.80	BRIAN KELCA	31	200 M. FREE M E N 35-39			1:12.27	DAVID PARLER	35	1:06.92	ROY ABRAMOWITZ	37
2:21.95	KIRK BUESE	31	1:59.38	LARRY WOOD	89	1:12.80	STEVE NELSON	38	1:07.13	RONALD KANE	39
2:24.22	JOHN BROSIUS	32	2:03.40	BRYAN AUSTIN	36	200 M. BACK M E N 35-39			1:07.13	STEVE FREEBORN	36
2:25.23	ANDREW ANTONETZ	34	2:04.70	ROB COPELAND	35	2:15.47	THOMAS WOLF	90	1:08.26	SCOTT COLEMAN	37
2:28.49	CHARLES HARTJE	32	2:05.00	LARRY WOOD	37	2:22.20	PAUL WINDRATH	37	200 M. FLY M E N 35-39		
2:28.96	JEFF REILLY	30	2:05.76	ROBERT STRUSS	39	2:26.82	JOHN PHILLIPS	35	2:17.46	DAVID VANDAM	90
2:36.05	THOMAS DENES	33	2:08.21	JOHN HANSEN	39	2:29.66	FRANK THOMPSON	39	2:22.43	DAVID SHEPHERD	36
2:42.50	DUANE GRASSELL	34	2:08.67	BRENT SWEITZER	39	2:34.63	STEVE NELSON	38	2:25.90	ROB COPELAND	35
2:46.54	PAUL FORTOUL	33	2:09.38	PAUL WINDRATH	37	2:36.53	JEFF GILBERT	35	2:26.94	RONALD KANE	39
3:34.47	MASANORI IMAI	33	2:10.89	RICK KOZLOWSKI	39	2:37.06	ROBERT STRUSS	39	2:29.38	MICHAEL HEATHER	37
100 M. I.M. M E N 30-34			2:11.30	THOMAS BOYD	35	2:37.84	DAVID SHEPHERD	36	2:31.98	LUKE DANIEL	35
1:00.98	J. CLAY BRITT	91	2:11.34	FRED YAWGER	35	2:38.53	DAVID PARLER	35	2:32.05	FRED YAWGER	35
1:00.98	CLAY BRITT	30	400 M. FREE M E N 35-39			2:39.16	DAVID OWEN	39	2:32.45	JEFF STRNAD	39
1:02.66	MATT CLARK	34	4:18.22	ROB COPELAND	91	2:44.38	MICHAEL HEATHER	37	2:34.48	PETER HUISVELD	39
1:03.51	BRYANT LUM	30	4:18.22	ROB COPELAND	35	50 M. BRST M E N 35-39			2:36.36	ROY ABRAMOWITZ	37
1:03.84	ALLEN LYDICK	33	4:29.00	LARRY WOOD	37	31.64	ROBERT RACHNER	88	2:38.33	HUGH MOORE	36
1:04.26	ALAN ARATA	30	4:30.65	HOWARD B COYE	37	33.26	JOE SCHUSTER	38	100 M. I.M. M E N 35-39		
1:04.44	JOSE CUNNINGHAM	34	4:31.95	ROBERT STRAUSS	39	33.29	KARL KAZMAIER	36	1:01.06	RICHARD HESS	91
1:05.33	STEVE LOWE	33	4:35.28	DAVID SHEPHERD	36	34.40	BOB KANE	36	1:01.06	RICHARD HESS	36
1:05.48	CHARLES GROEN	31	4:38.91	WILLIAM REEVES	37	34.42	JOHN EVERS	37	1:04.67	BUCK SMITH	38
1:05.57	DAN REDFERN	31	4:42.62	JEFF STRNAD	39	34.70	LEO LETENDRE	38	1:05.74	STU MARVIN	35
1:05.99	TOM DUNDON	31	4:42.97	JOHN PHILLIPS	35	35.02	CHUCK FISCHER	39	1:06.01	TOM WHATLEY	39
200 M. I.M. M E N 30-34			4:43.03	FRANK THOMPSON	39	35.26	PHILLIP M BLY	38	1:07.28	REED FARRIS	36
2:12.33	TOBY WEISSERT	88	4:43.04	DAVID OWEN	39	35.31	JIM CAPERS	39	1:07.91	BRYAN AUSTIN	36
2:20.00	ALAN ARATA	30	800 M. FREE M E N 35-39			35.70	BARRON CLEMONS	39	1:07.94	DAVID SHEPHERD	36
2:22.06	MARK BERTZ	31	9:13.76	LARRY WOOD	89	35.97	LEE MENCH	39	1:08.20	DICK GREEN	35
2:23.44	STEVE LOWE	33	9:24.51	DAVID SHEPHERD	36	100 M. BRST M E N 35-39			1:08.62	MICHAEL HEATHER	37
2:24.97	JEFF REILLY	30	9:25.94	ROBERT STRUSS	39	1:08.87	JOHN ROEMER	90	1:08.79	JOHN BONNING	35
2:25.98	TOM W DUGAN	33	9:27.40	PETER HUISVELD	39	1:13.74	KARL KAZMAIER	36	200 M. I.M. M E N 35-39		
2:26.43	BOB KANNEGIESER	34	9:42.45	LARRY WOOD	37	1:16.16	JOHN EVERS	37	2:15.67	CLAY EVANS	89
2:27.49	DAVID ACKERMAN	30	9:47.08	ROBERT E. WRIGHT	37	1:16.83	PHILLIP M BLY	38	2:24.01	TOM REUDY	37
2:28.49	BRIAN KELCA	31	9:53.19	JOHN PHILLIPS	35	1:17.08	LEO LETENDRE	38	2:26.93	J. KRONGAARD	37
2:28.91	BOB JAROSZ	32	9:57.12	JEFF STRNAD	39	1:17.92	CHUCK FISCHER	39	2:27.44	LARRY WOOD	37
2:30.58	CHARLES HARTJE	32	10:10.05	BUCK BROKER	35	1:18.16	BOB KANE	36	2:28.73	RICK KOZLOWSKI	39
400 M. I.M. M E N 30-34			10:10.64	PAUL WINDRATH	37	1:18.94	TOM WHATLEY	39	2:29.33	REED FARRIS	36
4:55.11	MARK SCHUMAN	88	10:13.75	JERRY SCHEIBNER	39	1:18.97	BARRON CLEMONS	39	2:30.04	WILLIAM REEVES	37
5:12.49	STEVE LOWE	33	1500 M. FREE M E N 35-39			1:18.99	DAVID PARLER	35	2:31.25	JEFF GILBERT	35
5:17.31	DAVID ACKERMAN	30	17:25.79	ROB COPELAND	91	1:20.46	MICHAEL LUVALLE	35	2:31.57	STEPHEN PECK	35
5:25.27	BOB JAROSZ	32	17:25.79	ROB COPELAND	35	200 M. BRST M E N 35-39			2:32.90	DAVID PARLER	35
5:29.10	JOHN ZELL	34	17:58.22	ROBERT STRAUSS	39	2:28.35	GREGORY HARRISON	89	2:34.21	ROGER KAHN	36
5:31.77	JAMES ACKER	31	18:11.28	LARRY WOOD	37	2:43.28	TOM REUDY	37	400 M. I.M. M E N 35-39		
5:46.86	BRIAN MILLER	30	18:48.22	JEFF STRNAD	39	2:45.52	KARL KAZMAIER	36	4:53.16	CLAY EVANS	89
5:53.07	WAYDE MULHERN	32	18:51.10	DAVID OWEN	39	2:46.67	WILLIAM REEVES	37	5:10.54	DAVID SHEPHERD	36
5:53.24	BILL SALAUN	31	19:15.27	PAUL WINDRATH	37	2:47.52	JOHN EVERS	37	5:16.02	LARRY WOOD	37
5:54.01	ED FOSTER	30	19:41.44	BUCK BROKER	35	2:49.75	LEO LETENDRE	38	5:18.91	J. KRONGAARD	37
6:10.26	CHRIS BAUER	30	19:47.48	NATHAN LEIGH	35	2:50.16	PHILLIP M BLY	38	5:20.39	PETER HUISVELD	39
50 M. FREE M E N 35-39			19:48.69	CHRIS LANSBERG	37	2:52.67	DAVID PARLER	35	5:20.98	PAUL WINDRATH	37
23.98	BILL VICKERY	89	19:51.17	JERRY SCHEIBNER	38	2:53.63	LUKE DANIEL	35	5:28.38	ROBERT STRUSS	39
24.60	BRYAN AUSTIN	35	50 M. BACK M E N 35-39			2:55.21	NICK BURLEY	37	5:31.09	MICHAEL HEATHER	37
24.69	JIM MONTGOMERY	36	28.05	MEL NASH	89	2:57.33	DANIEL JOHNSON	38	5:37.48	DAVID OWEN	39
24.81	DAVID HAGUE	37	29.67	STU MARVIN	35	50 M. FLY M E N 35-39			5:37.54	FRANK THOMPSON	39
25.03	STU MARVIN	35	30.54	PAUL WINDRATH	37	25.96	RICHARD HESS	91	5:39.47	HUGH MOORE	36
25.05	TOM WHATLEY	39	30.60	THOMAS BOYD	35	25.96	RICHARD HESS	36			

TOP TEN SHORT COURSE METERS

<u>50 M. FREE M E N 40-44</u>	20:49.58 RUSTY EARP 42	2:51.52 STEVE HECK 42	5:36.38 VIRGIL DANIELS 44
24.91 ANDY MCPHERSON 88	20:56.83 JON EINSIDLER 40	2:54.30 STEPHEN WILDER 41	5:41.21 STEVE HECK 41
24.94 JERRY HEIDENREICH 41	50 M. BACK M E N 40-44	2:54.37 RICHARD LAMBERT 43	5:41.31 STEPHEN WILDER 41
25.53 DAN THOMPSON 44	28.93 JERRY HEIDENREICH91	2:54.56 DAVID A LEVINSON 41	5:41.70 R.KOLONKOWSKI 43
25.68 DAN ROGACKI 44	28.93 JERRY HEIDENREICH 41	50 M. FLY M E N 40-44	5:47.83 RICHARD LAMBERT 43
26.04 FRED FERRARO 41	30.49 GARY HAFER 40	26.67 JERRY HEIDENREICH91	5:51.85 ELIOT CHENAUX 44
26.74 RICK GOEDEN 43	30.52 DAN THOMPSON 44	26.67 JERRY HEIDENREICH 41	<u>50 M. FREE M E N 45-49</u>
26.93 HUGH WILDER 44	30.79 WILLIAM TINGLEY 41	27.02 DAN THOMPSON 44	25.07 RICH ABRAHAMS 91
27.16 FRED LUNDBERG 43	30.99 HUGH WILDER 44	27.81 FRED FERRARO 41	25.07 RICH ABRAHAMS 45
27.36 CLAUDE WISE 40	31.56 R.KOLONKOWSKI 43	28.83 BILL BEHUN 40	26.62 ROBERT SMITH 48
27.46 TOM FONTANA 41	32.48 STEVE HECK 42	28.90 JOHN PHILLIPS 44	27.54 ARNIE DOWD 45
27.48 ALAN HOLLY 44	33.18 JIM KAUFFMAN 43	28.90 KURT GERHARDT 44	27.59 EDWARD G CAZALET 49
100 M. FREE M E N 40-44	33.37 ART HALTTUNEN 41	29.11 BOB SLAMA 41	27.61 LARRY HEWES 47
55.35 ANDY MCPHERSON 88	33.54 DAN ROGACKI 44	29.22 ART HALTTUNEN 41	27.63 JACK GEOGHEGAN 49
58.54 BILL BEHUN 40	100 M. BACK M E N 40-44	29.25 RUDY VAZMINA 41	27.86 DOUG BUCHAN 47
58.59 JERRY HEIDENREICH 41	1:04.50 RIC COOLEY 89	29.53 JIM KAUFFMAN 43	28.07 DOUGLAS STITZ 48
58.91 HUGH WILDER 44	1:05.66 WILLIAM TINGLEY 41	100 M. FLY M E N 40-44	28.14 JIM BURWELL 45
59.11 DAVE TANNER 41	1:06.77 GARY HAFER 40	1:00.79 ANDREW MCPHERSON 89	28.29 DON M DAVIS 46
59.99 WILLIAM REID 41	1:07.37 HUGH WILDER 44	1:01.72 FRED SCHLICHER 43	100 M. FREE M E N 45-49
1:00.20 VERNON DASCH 41	1:08.52 RIC COOLEY 41	1:05.27 KURT GERHARDT 44	56.64 KEEFE LODWIG 89
1:00.53 PETER HUISVELD 40	1:09.65 JOHN PHILLIPS 44	1:05.46 DAVE TANNER 41	56.99 RICH ABRAHAMS 45
1:00.70 JOHN R SULTAN 44	1:09.81 DAN ROGACKI 44	1:05.58 ART HALTTUNEN 41	1:00.35 JACK GEOGHEGAN 49
1:00.72 ALAN HOLLY 44	1:10.81 GREG GUSH 43	1:06.63 RUDY VAZMINA 41	1:01.26 HARRY GREENFIELD 46
1:00.92 JOHN OLANDER 41	1:10.95 STEVE HECK 41	1:06.86 PETER HUISVELD 40	1:01.76 ARNIE DOWD 45
200 M. FREE M E N 40-44	1:12.00 STEVEN HIGHLEY 44	1:07.47 EDWARD KENEHAN 40	1:01.79 EDWARD G CAZALET 49
2:01.01 KEVIN POLANSKY 89	1:14.30 HAM GADD 44	1:07.66 STEVE HECK 41	1:02.01 DON M DAVIS 46
2:07.21 FRED SCHLICHER 43	200 M. BACK M E N 40-44	1:07.68 JACK SALVATORE 41	1:02.23 DOUG BUCHAN 47
2:09.40 PETER HUISVELD 40	2:22.17 TOD SPIEKER 89	1:07.70 JOHN MCCALL 40	1:02.55 GARY LANGENDOEN 46
2:10.80 DAVE TANNER 41	2:26.20 WILLIAM TINGLEY 41	200 M. FLY M E N 40-44	1:03.18 TIMOTHY MILLER 45
2:10.88 JOHN NOLAN 43	2:28.20 GARY HAFER 40	2:16.15 BOO GALLAS 89	1:03.24 JIM BURWELL 45
2:13.43 WILLIAM REID 41	2:31.91 HUGH WILDER 44	2:17.39 FRED SCHLICHER 43	200 M. FREE M E N 45-49
2:14.47 VERNON DASCH 41	2:37.02 STEVEN HIGHLEY 44	2:34.33 PETER HUISVELD 40	2:05.81 ED CAZALET 88
2:16.21 STEVE DURAPAU 42	2:40.43 DAN ROGACKI 43	2:41.11 DAVID A LEVINSON 41	2:08.54 TIM BIRNIE 46
2:16.56 JOHN OLANDER 41	2:43.14 VIRGIL DANIELS 44	2:41.63 HUNTER YOST 40	2:17.09 JOHN LANE 45
2:18.34 DAVID OATES 40	2:45.69 STEVE HECK 41	2:43.52 BRETT SORGE 44	2:17.15 JACK GEOGHEGAN 49
2:18.93 DAVE MINER 43	2:46.69 TOM KRUG 43	2:44.41 JOHN ZIEGENHAGEN 44	2:19.84 MIKE CASEY 48
400 M. FREE M E N 40-44	2:47.25 STEPHEN WILDER 41	2:44.94 JACK SALVATORE 41	2:21.87 RICHARD SMITH 45
4:18.45 KEVIN POLANSKY 89	2:48.84 TERRENCE LEE 41	2:49.24 TOM COURTNEY 41	2:22.45 HARRY GREENFIELD 46
4:34.30 PETER HUISVELD 40	50 M. BRST M E N 40-44	2:50.18 STEPHEN WILDER 41	2:23.47 RICHARD BAUSCHARD 47
4:41.24 DAVE TANNER 41	31.33 PAUL HENNE 89	3:09.78 SCOTT THOMPSON 40	2:24.06 DON DAVIS 47
4:42.43 FRANK WARNER 42	31.90 PEDER DAHLBERG 42	100 M. I.M. M E N 40-44	2:26.24 FRED SHAW 45
4:46.44 STEVE DURAPAU 42	32.68 ALLEN STARK 42	1:02.30 RIC COOLEY 89	2:26.78 RICHARD OLSON 46
4:46.94 JOHN NOLAN 43	33.15 DAN ROGACKI 44	1:04.78 JERRY HEIDENREICH 41	400 M. FREE M E N 45-49
4:53.87 BRUCE FISHER 42	33.23 DAN THOMPSON 44	1:06.74 DAN ROGACKI 44	4:33.39 ED CAZALET 89
4:54.75 JORGE GONZALEZ 42	33.39 ART HALTTUNEN 41	1:07.23 EDWIN PYLE 41	4:38.67 TIM BIRNIE 46
4:54.89 WILLIAM REID 44	34.37 DENNIS J WILSON 42	1:07.77 ART HALTTUNEN 41	4:40.10 DAVID J GRAY 45
4:55.06 JOHN OLANDER 41	34.48 JERRY HEIDENREICH 41	1:08.80 GARY HAFER 40	4:48.95 EDWARD G CAZALET 49
5:00.11 DAVE MINER 43	34.52 STUART PECHTER 40	1:09.21 JOHN PHILLIPS 44	4:56.20 GARY LANGENDOEN 46
800 M. FREE M E N 40-44	34.54 GARY JEWELL 41	1:09.28 STEVE HECK 42	4:56.84 JACK GEOGHEGAN 49
9:01.20 KEVIN POLANSKY 89	34.70 EDWARD KENEHAN 40	1:09.39 JOHN R SULTAN 44	5:03.49 JOHN LANE 45
9:32.71 PETER HUISVELD 40	100 M. BRST M E N 40-44	1:09.64 HUGH WILDER 44	5:09.33 STEPHEN SAYLOR 49
9:37.36 STEPHEN JOHNSON 42	1:11.22 PAUL HENNE 89	1:09.65 PETER HUISVELD 40	5:09.53 RONALD MOLNAR 49
9:46.83 DAVE TANNER 41	1:12.33 PEDER DAHLBERG 42	200 M. I.M. M E N 40-44	5:10.45 JOHN QUANRUD 45
10:00.87 JOHN NOLAN 43	1:13.52 ART HALTTUNEN 41	2:18.73 JOHN CALVERT 89	5:10.64 PAUL HEBERT 45
10:01.35 JORGE GONZALEZ 42	1:13.85 ALLEN STARK 42	2:27.33 EDWIN PYLE 41	800 M. FREE M E N 45-49
10:13.68 BRUCE FISHER 42	1:15.56 DAN ROGACKI 43	2:30.03 PETER HUISVELD 40	9:32.34 RICHARD BOYD 89
10:20.66 VIRGIL DANIELS 44	1:15.71 IAN THOMPSON 41	2:31.25 RIC COOLEY 41	10:11.08 RICHARD BOYD 47
10:28.85 GARY HAFER 40	1:17.53 GARY JEWELL 41	2:32.58 ART HALTTUNEN 41	10:17.15 JACK GEOGHEGAN 49
10:30.44 TOM COURTNEY 41	1:17.88 MIKE EDDY 40	2:34.14 MIKE EDDY 40	10:31.82 RICHARD SMITH 45
10:37.45 JOHN OLANDER 41	1:18.00 STEVE HECK 42	2:34.68 STEVEN HALVORSON 40	10:36.59 JOHN LANE 45
1500 M. FREE M E N 40-44	1:18.05 DENNIS J WILSON 42	2:36.12 STEVE HECK 41	10:52.76 T.GRIFFIN 48
17:38.17 DAVID GRAY 87	1:18.09 STEPHEN WILDER 41	2:37.91 IAN THOMPSON 41	10:55.43 RONALD MOLNAR 49
17:47.59 PETER HUISVELD 40	200 M. BRST M E N 40-44	2:38.56 STEPHEN WILDER 41	11:01.40 MIKE LAUX 49
18:46.38 STEVE DURAPAU 42	2:38.99 ROBERT STRAND 90	2:39.86 BRUCE FISHER 42	11:04.37 STEPHEN SAYLOR 49
19:17.79 JORGE GONZALEZ 42	2:42.50 ALLEN STARK 42	400 M. I.M. M E N 40-44	11:09.19 GUY LEWIS 48
19:39.81 JOHN NOLAN 43	2:45.44 IAN THOMPSON 41	5:00.76 JOHN CALVERT 89	11:24.79 PHIL BOGAN 45
20:02.23 FRANK MCQUIGGAN 43	2:46.92 ART HALTTUNEN 41	5:12.93 EDWIN PYLE 41	1500 M. FREE M E N 45-49
20:07.17 DAN ROGACKI 44	2:47.27 PEDER DAHLBERG 42	5:14.95 FRED SCHLICHER 43	18:27.36 HUGH WINN 87
20:07.49 STEPHEN STEDRY 40	2:47.55 MIKE EDDY 40	5:25.46 PETER HUISVELD 40	19:16.34 MIKE GARABALDI 45
20:09.71 TOM COURTNEY 41	2:49.15 DAN ROGACKI 43	5:33.01 MIKE EDDY 40	19:54.24 JOHN LANE 45

TOP TEN SHORT COURSE METERS

20:02.16 RICHARD SMITH 45	2:41.02 ROBERT STRAND 45	5:17.02 EDWARD CAZALET 89	12:51.26 STEVE SIX 52
20:25.34 DOUGLAS SELBY 45	2:54.93 TIMOTHY MILLER 45	5:41.04 RICHARD BOYD 47	1500 M. FREE M E N 50-54
20:37.11 JOHN QUANRUD 45	2:59.31 RICHARD BOYD 47	5:43.98 RICHARD SMITH 45	19:16.63 BURWELL JONES 85
21:22.71 STEPHEN SAYLOR 49	3:00.06 CHRIS JONES 45	5:48.83 JOHN LANE 45	19:37.86 GAYLORD HOPKINS 50
22:08.66 BILL MURRAY 49	3:01.28 ALLEN MURRAY 47	5:49.40 JAMES M BEGLINGER 45	21:14.94 ERNIE LESKOVITZ 54
22:11.65 GUY LEWIS 48	3:01.64 CHARLES B LEE 47	5:50.02 JIM P MERCHANT 45	21:41.02 BOB BOURASSA 50
22:26.70 LARRY KEATON 48	3:02.78 FRED SHAW 45	5:52.48 JACK GEOGHEGAN 49	22:31.71 STANLEY E PANKO 53
22:38.81 JOHN ZEIGLER 45	3:02.90 RONALD GREGER 46	5:54.31 RONALD MOLNAR 49	22:49.07 BEN FRANKLIN 50
50 M. BACK M E N 45-49	3:06.94 DON DAVIS 47	5:56.12 PHIL WHITTEN 47	23:22.89 JOHN GROVES 51
29.33 ROBERT SMITH 89	3:07.64 DAVID SZUCH 48	6:13.27 DAVID SZUCH 48	23:24.31 DON MAY 53
30.28 ROBERT SMITH 48	50 M. FLY M E N 45-49	6:17.09 JOHN ZEIGLER 45	23:37.80 WAYNE WILSON 51
30.61 TIM BIRNIE 46	27.62 RICHARD WOODROW 89	50 M. FREE M E N 50-54	23:43.93 DOUG DUWE 52
31.65 PHIL WHITTEN 48	27.92 RICH ABRAHAMS 45	26.35 JEFF FARRELL 88	24:53.41 DAVID FLEMING 50
32.60 JOHN CALVERT 46	29.53 GARY LANGENDOEN 46	27.11 WILL GOSNOLD 50	50 M. BACK M E N 50-54
32.74 FRANS NELSON 49	29.74 ROBERT SMITH 48	27.75 RICHARD BASSI 50	31.42 JOHN SMITH 89
33.05 JACK GEOGHEGAN 49	30.14 DOUG BUCHAN 48	28.27 HENRY SOUTHALL 51	33.22 RICHARD BASSI 50
33.80 GARY LANGENDOEN 46	30.49 LARRY HEWES 47	29.17 TOM SCOTT 50	35.83 BILL EARLEY 54
34.04 PAUL HEBERT 45	30.49 ROBERT BENNETT 48	29.78 BILL EARLEY 54	35.86 MARSHALL GREER 54
34.24 ROBERT STRAND 45	30.85 JOHN BIRUM 46	29.95 BEN FRANKLIN 50	36.44 EDWARD PHELPS 50
34.50 HARRY SOBER 48	31.00 JACK GEOGHEGAN 49	30.01 DUFFIE FRYLING 53	37.44 DALE MCGINLEY 53
100 M. BACK M E N 45-49	31.12 DOUGLAS SELBY 45	30.02 DOUG DUWE 52	37.79 FRED WENDELKEN 52
1:05.31 ROBERT SMITH 89	31.17 PAUL HEBERT 45	30.09 GARY BEZELLA 54	38.03 RON WILLIAMSON 53
1:07.71 TIM BIRNIE 46	31.17 TOM MANFREDI 48	30.13 GEORGE FISETTE 50	38.41 GEORGE J QUIGLEY 51
1:07.92 ROBERT SMITH 48	100 M. FLY M E N 45-49	100 M. FREE M E N 50-54	39.00 DOUG SHEARER 50
1:09.98 ROBERT STRAND 45	1:03.48 GARY LANGENDOEN 90	59.80 ROBERT PROEBSTING89	39.12 DAVID PAINTER 53
1:10.32 PHIL WHITTEN 47	1:08.95 DOUG BUCHAN 48	1:00.27 WILL GOSNOLD 50	100 M. BACK M E N 50-54
1:10.89 JOHN CALVERT 46	1:09.59 PAULO FIGUEIREDO 45	1:03.26 RICHARD BASSI 50	1:10.07 JOHN SMITH 89
1:13.77 JACK GEOGHEGAN 49	1:10.31 JACK GEOGHEGAN 49	1:06.60 BOB BOURASSA 50	1:14.93 RICHARD BASSI 50
1:15.56 PAULO FIGUEIREDO 45	1:10.68 JOSEPH COPLAN 45	1:07.03 DAVID HARRISON 54	1:20.83 FRED WENDELKEN 52
1:18.84 DOUGLAS SELBY 45	1:12.45 ROBERT BENNETT 48	1:07.38 ERNIE LESKOVITZ 54	1:21.21 GEORGE J QUIGLEY 51
1:20.56 JOHN HYATT 48	1:12.57 DOUGLAS SELBY 45	1:08.38 FRED WENDELKEN 52	1:22.40 BILL EARLEY 54
1:21.79 RONALD MOLNAR 49	1:15.63 TOM MANFREDI 48	1:09.55 GARY BEZELLA 54	1:22.93 EDWARD PHELPS 50
200 M. BACK M E N 45-49	1:17.10 JOHN QUANRUD 45	1:09.57 BOB COALE 51	1:23.29 ROBERT TESCH 50
2:24.87 JOHN CALVERT 91	1:17.31 DAVID SZUCH 48	1:09.60 TOM SCOTT 50	1:23.95 DALE MCGINLEY 53
2:24.87 JOHN CALVERT 46	1:19.14 MICHAEL KELLY 45	1:09.85 DOUG DUWE 52	1:24.20 BARRY A FASBENDER 54
2:26.19 TIM BIRNIE 46	200 M. FLY M E N 45-49	200 M. FREE M E N 50-54	1:24.99 PATRICK SCHLUP 51
2:36.36 PAUL HEBERT 45	2:28.48 GARY LANGENDOEN 90	2:14.80 GAYLORD HOPKINS 91	1:25.14 JACK G HALLIDAY 54
2:37.71 PHIL WHITTEN 47	2:43.18 JACK GEOGHEGAN 49	2:14.80 GAYLORD HOPKINS 50	200 M. BACK M E N 50-54
2:41.95 JAMES M BEGLINGER 45	3:04.55 HARRY GREENFIELD 46	2:16.58 WILL GOSNOLD 50	2:37.52 BURWELL JONES 85
2:44.08 MICHAEL MCCOLLY 45	3:07.12 DAVID SZUCH 48	2:17.71 HENRY SOUTHALL 51	2:47.13 RICHARD BASSI 50
2:47.29 JACK GEOGHEGAN 49	3:08.79 JOHN ZEIGLER 45	2:21.87 MELVIN RUDER 51	2:51.63 BEN WISCKOL 51
2:49.90 JIM P MERCHANT 45	3:22.48 STEPHEN SAYLOR 49	2:22.97 RICHARD BASSI 50	2:55.54 DON MAY 53
2:54.25 DOUGLAS SELBY 46	3:44.46 THOM BURGESS 48	2:24.01 DAVID HARRISON 54	2:55.69 GEORGE J QUIGLEY 51
2:57.09 KING BOYD 47	3:57.55 STEVEN KOVARY 49	2:27.16 BEN FRANKLIN 50	2:55.84 MIKE LAUX 50
50 M. BRST M E N 45-49	4:51.20 DONALD KUYPER 48	2:29.20 ERNIE LESKOVITZ 54	2:59.46 DALE MCGINLEY 53
32.23 PAUL HENNE 91	100 M. I.M. M E N 45-49	2:32.46 TOM FANNING 51	3:00.42 ROBERT TESCH 50
32.23 PAUL HENNE 45	1:06.13 ROBERT SMITH 90	2:37.85 DON MAY 53	3:00.47 TOM FANNING 51
32.53 RICHARD NESBIT 46	1:08.94 ROBERT SMITH 47	400 M. FREE M E N 50-54	3:03.00 FRED WENDELKEN 52
33.89 ROBERT STRAND 45	1:11.53 GARY LANGENDOEN 46	4:45.96 BURWELL JONES 85	3:14.36 PETE MAGEE 54
34.89 ROBERT SMITH 47	1:12.12 JACK GEOGHEGAN 49	4:49.84 GAYLORD HOPKINS 50	50 M. BRST M E N 50-54
35.16 TIMOTHY MILLER 45	1:12.58 PHIL WHITTEN 47	5:03.15 WILL GOSNOLD 50	34.15 MANUEL SANGUILY 87
35.34 SCOTT GUTHRIE 47	1:14.13 RICHARD BAUSCHARD 47	5:08.58 HENRY SOUTHALL 51	37.10 MILTON GEE 54
36.39 CHARLES B LEE 47	1:14.32 RICHARD SMITH 45	5:10.36 DAVID HARRISON 54	37.28 BEN FRANKLIN 50
36.45 PHIL WHITTEN 47	1:14.50 RONALD MOLAR 49	5:15.90 ERNIE LESKOVITZ 54	38.13 WALT REID 50
37.15 CHRIS JONES 45	1:14.64 JOSEPH COPLAN 45	5:19.83 BOB COALE 51	38.64 CHARLES KILBOURNE 52
37.41 THOM BURGESS 48	1:14.70 MIKE LAUX 49	5:21.73 BOB BOURASSA 50	38.68 DOUG MESSINEO 51
100 M. BRST M E N 45-49	1:15.28 CHRIS JONES 45	5:27.39 PATRICK SCHLUP 51	38.71 DAVID DABOLL 54
1:10.70 ROBERT STRAND 91	200 M. I.M. M E N 45-49	5:33.08 ROBERT TESCH 50	39.38 STANLEY E PANKO 53
1:10.70 ROBERT STRAND 45	2:24.45 JOHN CALVERT 91	5:35.40 TOM FANNING 51	39.64 PAUL HO 51
1:11.40 PAUL HENNE 45	2:24.45 JOHN CALVERT 46	800 M. FREE M E N 50-54	39.75 JACK G HALLIDAY 54
1:15.70 RICHARD NESBIT 46	2:37.78 EDWARD G CAZALET 49	9:50.17 DRURY GALLAGHER 89	40.20 RAY BELLEM 54
1:18.93 TIMOTHY MILLER 45	2:41.86 RICHARD BOYD 47	10:16.42 GAYLORD HOPKINS 50	100 M. BRST M E N 50-54
1:19.85 PHIL WHITTEN 48	2:41.88 PHIL WHITTEN 48	11:03.54 BOB COALE 51	1:14.72 DRURY GALLAGHER 89
1:21.25 RONALD GREGER 46	2:43.22 RONALD MOLNAR 49	11:04.56 WILL GOSNOLD 50	1:23.70 BILL MULLIKEN 52
1:21.79 ALLEN MURRAY 47	2:44.16 CHRIS JONES 45	11:11.39 ERNIE LESKOVITZ 54	1:24.33 MILTON GEE 54
1:22.02 CHRIS JONES 45	2:44.38 RICHARD BAUSCHARD 47	11:35.63 BOB BOURASSA 50	1:24.65 PATRICK SCHLUP 51
1:22.29 JOSEPH COPLAN 45	2:44.65 JACK GEOGHEGAN 49	11:46.92 DALE MCGINLEY 53	1:26.59 JACK G HALLIDAY 54
1:22.76 DON M DAVIS 46	2:46.79 MICHAEL MCCOLLY 45	12:11.25 TOM GIESEN 51	1:26.60 DOUG MESSINEO 51
200 M. BRST M E N 45-49	2:46.81 BEN VAN DYK 46	12:33.37 JOHN GROVES 51	1:26.90 CHARLES KILBOURNE 52
2:41.02 ROBERT STRAND 91	400 M. I.M. M E N 45-49	12:43.02 BILL LIMBRECHT 52	1:27.59 WALT REID 50

TOP TEN SHORT COURSE METERS

1:29.00 RAY BELLEM	54	2:53.65 CYRUS HOPKINS	53	11:57.32 JAMES JOHNSEN	56	1:16.32 MANUEL SANGUILY	88
1:29.33 BILL PTASHNIK	51	2:56.54 JACK G HALLIDAY	54	12:25.50 JOE VAN HORN	55	1:24.14 BOB BEST	59
1:29.98 BOB COALE	51	2:59.16 ROBERT TESCH	50	12:27.44 THOMAS KEHOE	57	1:26.74 RAY BELLEM	55
200 M. BRST M E N 50-54		3:05.73 BILL EARLEY	54	12:49.04 PARRY O'BRIEN	59	1:28.66 RAY BURNS	56
2:45.11 DRURY GALLAGHER	89	3:06.76 FRED WENDELKEN	52	13:05.33 NICHOLAS BERENTI	59	1:31.98 GEORGE NORDBLOM	56
3:01.15 BILL MULLIKEN	52	400 M. I.M. M E N 50-54		13:14.38 HOWARD ALKOFF	58	1:32.89 HARRY PIPER	57
3:02.60 PATRICK SCHLUP	51	5:20.81 DRURY GALLAGHER	89	13:24.47 RICHARD CHISHOLM	56	1:33.39 JAMES JOHNSEN	56
3:08.71 TOM FANNING	51	5:54.69 MIKE LAUX	50	13:42.60 STEVEN SCHOFIELD	59	1:35.55 NICHOLAS BERENYI	59
3:09.51 DOUG MESSINEO	51	6:03.15 MEL GOLDSTEIN	53	1500 M. FREE M E N 55-59		1:35.76 LARRY GOOD	57
3:09.90 PAUL HO	51	6:13.79 BEN WISCKOL	51	20:03.24 BURWELL JONES	90	1:37.67 WILLIAM MOSEID	58
3:11.30 MILTON GEE	54	6:15.13 PATRICK SCHLUP	51	20:56.45 C.LEBOURGEOIS	57	1:37.85 CHARLES DRIEHORST	56
3:11.57 CHARLES KILBOURNE	52	6:15.32 TOM FANNING	51	23:30.56 JOE VAN HORN	55	200 M. BRST M E N 55-59	
3:16.09 BOB COALE	51	6:17.88 ERNIE LESKOVITZ	54	23:56.61 THOMAS KEHOE	57	2:51.47 MANUEL SANGUILY	89
3:16.29 R. BELLEM	54	6:21.31 ROBERT TESCH	50	24:12.17 BARRY BARTLE	59	3:11.20 RAY BELLEM	55
3:17.17 DICK A PETERSON	54	6:24.76 DOUG MESSINEO	51	25:00.64 JAMES MILLER	55	3:13.50 BOB BEST	59
50 M. FLY M E N 50-54		6:34.28 BARRY A FASBENDER	54	25:02.20 NICHOLAS BERENTI	59	3:21.87 NICHOLAS BERENYI	59
29.34 ROBERT PROEBSTING88		6:40.01 BOB COALE	51	25:07.21 RICHARD CHISHOLM	56	3:25.49 GEORGE NORDBLOM	56
29.77 RICHARD BASSI	50	50 M. FREE M E N 55-59		25:10.41 PARRY O'BRIEN	59	3:36.68 WILLIAM MOSEID	58
30.93 WILL GOSNOLD	50	26.60 DONALD HILL	89	26:16.40 THOMAS HETZEL	55	3:37.11 HARRY PIPER	57
31.17 DAVID FLEMING	50	27.62 BOB BAILIE	56	26:42.46 STEVE HAMILTON	56	3:48.12 BARRY BARTLE	55
31.74 MIKE LAUX	50	29.73 BOB BEST	58	50 M. BACK M E N 55-59		3:54.97 BRUCE KURTZ	59
32.53 PETER COMBES	50	30.08 THOMAS KEHOE	57	32.69 YOSHI OYAKAWA	89	4:13.52 HERBERT FURASH	58
32.77 GEORGE FISETTE	50	30.21 BILL EARLEY	55	35.49 BARR CLAYSON	56	4:21.48 THOMAS HETZEL	55
33.08 WAYNE PICKERING	54	30.21 DAVE DRUM	55	35.76 BILL EARLEY	55	50 M. FLY M E N 55-59	
33.43 ERNIE LESKOVITZ	54	30.42 BILL ROBERTSON	55	35.98 JOHN GOODE	57	30.15 ROBERT BAILIE	90
34.32 STANLEY ASHARE	51	31.01 FRANK REYNOLDS	59	36.92 ELVIN CHOONG	59	31.34 BOB BAILIE	56
34.53 JOHN FASIRICH	50	31.03 SID HALL	56	37.23 KEN KOSTER	55	31.52 DAVE COSTILL	55
100 M. FLY M E N 50-54		31.18 JOE ILLICK	56	37.53 LARRY GOOD	57	32.65 DAVE DRUM	55
1:06.66 ROBERT PROEBSTING89		31.35 CHARLES MAAS	57	38.96 LLOYD SKRAMSTAD	57	33.39 C.LEBOURGEOIS	57
1:10.29 MIKE LAUX	50	31.35 BOB DORSE	59	39.00 BILL ROBERTSON	55	33.45 BOB BEST	59
1:13.14 RICHARD BASSI	50	100 M. FREE M E N 55-59		39.71 FRANK REYNOLDS	59	34.02 HERB KERN	59
1:15.64 ERNIE LESKOVITZ	54	1:00.08 DONALD HILL	89	39.83 BOB BEST	58	34.11 FRANK REYNOLDS	59
1:16.04 MEL GOLDSTEIN	53	1:01.29 BOB BAILIE	56	100 M. BACK M E N 55-59		34.20 PARRY O'BRIEN	59
1:16.44 ROBERT TESCH	50	1:06.53 BILL ROBERTSON	55	1:12.17 YOSHI OYAKAWA	89	34.40 BILL ROBERTSON	55
1:17.61 DAVID FLEMING	50	1:07.42 THOMAS KEHOE	57	1:18.91 BARR CLAYSON	56	35.24 BILL EARLEY	55
1:19.07 CYRUS HOPKINS	53	1:09.05 BOB BEST	59	1:21.86 LARRY A GOOD	57	100 M. FLY M E N 55-59	
1:19.80 GEORGE FISETTE	50	1:10.10 JAMES JOHNSEN	56	1:22.49 BILL EARLEY	55	1:12.51 DAVE COSTILL	91
1:24.47 BARRY A FASBENDER	54	1:10.51 DAVID DRUM	56	1:22.83 JOHN GOODE	58	1:12.51 DAVE COSTILL	55
1:25.31 D. KOOP	50	1:10.75 BARRY BARTLE	59	1:25.92 ELVIN CHOONG	59	1:21.25 C.LEBOURGEOIS	57
200 M. FLY M E N 50-54		1:11.35 HERB KERN	59	1:27.03 KEN KOSTER	55	1:21.80 BOB PATTEN	56
2:36.01 ROBERT PROEBSTING89		1:11.37 BILL EARLEY	55	1:27.48 ARNIE GREEN	59	1:22.28 H. ALVARADO	56
2:41.88 MIKE LAUX	50	1:11.49 JOE ILLICK	56	1:27.54 LLOYD SKRAMSTAD	57	1:22.37 DAVE DRUM	55
3:08.53 ROBERT TESCH	50	200 M. FREE M E N 55-59		1:29.25 DAVE DRUM	55	1:24.65 GORDON HALLY	55
3:18.90 BARRY A FASBENDER	54	2:21.68 BURWELL JONES	90	1:32.28 RAY BELLEM	55	1:25.27 RAY BURNS	56
3:24.19 DOUG MESSINEO	51	2:29.04 BILL ROBERTSON	55	200 M. BACK M E N 55-59		1:25.62 ARTHUR WELCH	58
3:28.37 D. KOOP	50	2:35.35 C.LEBOURGEOIS	57	2:41.11 JACK BEATTIE	89	1:25.73 HERB KERN	59
3:29.10 JOE BOLZE	51	2:37.64 THOMAS KEHOE	57	3:10.77 BILL EARLEY	55	1:27.24 PARRY O'BRIEN	59
3:31.75 BOB MCKINNON	53	2:37.85 JIM BIGLER	56	3:15.64 C.LEBOURGEOIS	57	200 M. FLY M E N 55-59	
3:36.15 ROBERT WILLIAMS	52	2:39.30 JAMES JOHNSEN	56	3:18.84 ARNIE GREEN	59	2:53.71 MANUEL SANGUILY	89
4:12.09 CARL HOUSE	52	2:41.56 HERB KERN	59	3:22.46 ARTHUR WELCH	58	2:58.90 C.LEBOURGEOIS	57
4:24.57 DUFFIE FRYLING	53	2:43.86 BARRY BARTLE	59	3:23.45 KEN KOSTER	55	3:16.00 H. ALVARADO	56
100 M. I.M. M E N 50-54		2:45.69 CHARLES MAAS	56	3:23.74 HERB KERN	59	3:23.04 HERB KERN	59
1:07.60 DRURY GALLAGHER	89	2:49.30 JOE VAN HORN	55	3:26.85 ELVIN CHOONG	59	3:33.07 GORDON HALLY	55
1:12.85 RICHARD BASSI	50	2:50.11 ART SCOTT	58	3:34.07 NICHOLAS BERENYI	59	3:35.80 PARRY O'BRIEN	59
1:14.83 MIKE LAUX	50	400 M. FREE M E N 55-59		3:38.54 EDWIN ROONEY	58	3:36.95 NICHOLAS BERENTI	59
1:16.88 DAVID FLEMING	50	5:00.88 GRAHAM JOHNSTON	87	3:39.99 BRUCE KURTZ	55	4:12.36 GARRY HARN	56
1:17.56 CYRUS HOPKINS	53	5:25.57 C.LEBOURGEOIS	57	50 M. BRST M E N 55-59		4:14.91 TOM FOLEY	56
1:19.09 FRED WENDELKEN	52	5:34.69 BILL ROBERTSON	55	33.77 MANUEL SANGUILY	89	5:03.38 HERBERT FURASH	58
1:19.37 ROBERT TESCH	50	5:35.21 JOHN RIDLAND	58	37.20 BOB BEST	58	100 M. I.M. M E N 55-59	
1:20.20 DAVID PAINTER	53	5:39.13 JAMES JOHNSEN	56	39.78 RAY BURNS	56	1:12.57 DAVE COSTILL	91
1:20.21 PATRICK SCHLUP	51	5:41.95 RAY BURNS	56	40.13 RAY BELLEM	55	1:12.57 DAVE COSTILL	55
1:20.43 DAVID DABOLL	54	5:44.31 THOMAS KEHOE	57	40.69 LLOYD SKRAMSTAD	57	1:16.82 BOB BEST	58
1:20.74 BILL EARLEY	54	5:46.60 CHARLES MAAS	56	41.33 HARRY PIPER	57	1:19.65 BILL ROBERTSON	55
200 M. I.M. M E N 50-54		6:00.72 JOE VAN HORN	55	42.30 GEORGE NORDBLOM	56	1:20.52 FRANK REYNOLDS	59
2:31.52 DRURY GALLAGHER	89	6:02.29 BARRY BARTLE	59	42.34 BILL EARLEY	55	1:21.05 BILL EARLEY	55
2:46.67 MEL GOLDSTEIN	53	6:04.73 ARNIE GREEN	59	42.37 ED CURTIS	56	1:21.56 LARRY GOOD	57
2:46.91 MIKE LAUX	50	800 M. FREE M E N 55-59		42.96 WILLIAM MOSEID	58	1:21.72 RAY BURNS	56
2:48.37 BILL MULLIKEN	52	10:35.62 GRAHAM JOHNSTON	87	42.97 LARRY GOOD	57	1:22.93 DAVID DRUM	56
2:52.98 BOB BOURASSA	50	11:48.42 BARRY BARTLE	59	42.97 BOB DORSE	59	1:24.13 GEORGE NORDBLOM	56
2:53.54 PATRICK SCHLUP	51	11:50.11 JIM BIGLER	56	100 M. BRST M E N 55-59		1:24.66 RAY BELLEM	55

TOP TEN SHORT COURSE METERS

200 M. I.M. M E N 55-59	6:18.91 FRED SPRENGER 60	40.73 GRAHAM JOHNSTON 60	1:31.10 DICK WEBBER 62
2:40.88 DAVE COSTILL 91	6:20.46 DICK BOWER 61	40.75 ARNIE FORMO 64	1:31.86 PAUL GEITHNER 60
2:40.88 DAVE COSTILL 55	800 M. FREE M E N 60-64	40.76 LEN GOLDSTONE 61	200 M. I.M. M E N 60-64
2:55.53 BOB BEST 59	11:14.13 WILLIAM PHILLIPS 89	42.07 GENE SAPPER 62	2:46.69 GRAHAM JOHNSTON 91
2:58.58 LARRY GOOD 57	12:22.00 CHARLES KOHNKEN 60	42.61 WILLIAM AUSTIN 64	2:46.69 GRAHAM JOHNSTON 60
2:58.77 C. LEBOURGEOIS 57	13:02.40 FRED WADSWORTH 62	100 M. BRST M E N 60-64	3:03.52 LEN GOLDSTONE 62
3:04.04 BILL EARLEY 55	13:02.51 MORGAN BEYERS 64	1:18.77 JOHN KORTHEUER 91	3:09.80 GORDON GILLIN 60
3:08.01 RAY BELLEM 55	13:13.25 FRED SPRENGER 60	1:18.77 JOHN KORTHEUER 60	3:21.89 PAUL GEITHNER 60
3:16.31 ARTHUR WELCH 58	13:42.59 JOHN DAILY 63	1:30.05 DON VAN ROSSEN 62	3:26.57 HAMILTON MILROY 60
3:23.62 NICHOLAS BERENY 59	13:46.45 HARLAN DRAKE 63	1:30.07 GRAHAM JOHNSTON 60	3:34.98 WILLIAM MONROE 60
3:25.59 ED CURTIS 56	13:46.97 GENE DONNER 60	1:31.65 ARNIE FORMO 64	3:36.49 WILLIAM CANNON 61
3:31.67 WILLIAM MOSEID 58	13:51.84 WILLIAM CANNON 61	1:31.86 DAN GRUENDER 62	3:44.97 JACK MITCHELL 64
400 M. I.M. M E N 55-59	13:57.93 ERIC GUEST 61	1:33.36 MILTON MARKS 60	3:59.68 ROLAND KUNIHOLM 61
5:54.37 BURWELL JONES 89	15:02.58 DONALD BAKER 60	1:34.73 TOM TAYLOR 60	4:14.71 MARVIN KLEINMAN 64
6:23.74 C. LEBOURGEOIS 57	1500 M. FREE M E N 60-64	1:34.81 WILLIAM AUSTIN 64	400 M. I.M. M E N 60-64
6:29.07 BOB BEST 59	21:46.98 WIN WILSON 90	1:35.64 LARRY SVANE 61	6:19.49 CHARLES MOSS 89
6:32.08 LARRY A GOOD 57	23:16.36 PETER BUCKLEY 61	1:37.29 GENE SAPPER 62	6:38.66 LEN GOLDSTONE 62
6:35.62 RAY BURNS 56	24:27.22 KEN KIMBALL 61	200 M. BRST M E N 60-64	6:43.90 GORDON GILLIN 60
6:36.55 HERB KERN 59	25:31.73 FRED WADSWORTH 62	3:00.71 JOHN KORTHEUER 91	7:07.93 CHARLES KOHNKEN 60
6:49.74 JAMES JOHNSEN 56	25:46.23 JORDAN WOLLE 63	3:00.71 JOHN KORTHEUER 60	7:16.58 MILTON MARKS 60
6:54.91 GEORGE NORBLUM 56	25:58.36 JOHN DAILY 63	3:01.24 WOODY GAIR 61	7:34.15 THOMAS MICHELSON 60
7:06.04 NICHOLAS BERENTI 59	27:07.87 DAN GRUENDER 62	3:19.18 DON VAN ROSSEN 62	7:37.45 JOHN BAUMAN 61
7:42.59 GARRY HARN 55	29:13.51 JAN BLICHFELDT 62	3:19.87 DAN GRUENDER 62	8:04.68 WILLIAM CANNON 61
7:58.61 GERALD MARKOFF 59	30:40.53 ARNOLD MEARDON 61	3:26.73 TOM TAYLOR 60	50 M. FREE M E N 65-69
50 M. FREE M E N 60-64	36:54.51 JOSEPH MCKINNEY 60	3:31.97 ARNIE FORMO 64	29.63 FRANK PIEMME 90
28.86 FRANK PIEMME 88	41:02.84 BILL BRESKO 63	3:32.49 WILLIAM AUSTIN 64	29.84 FRANK PIEMME 66
29.37 RON JOHNSON 60	50 M. BACK M E N 60-64	3:32.83 LARRY SVANE 61	31.11 KEITH CARTER 67
29.94 JOHN KORTHEUER 60	34.81 PAUL HUTINGER 86	3:38.23 PIETER CATH 61	32.05 A.ARCIDIACONO 67
30.90 DICK WEBBER 62	35.65 RON JOHNSON 60	3:42.34 JOHN BAUMAN 61	32.35 ROBERT S BLAKE 66
30.96 BOB DORSE 60	38.19 KEN KIMBALL 61	50 M. FLY M E N 60-64	32.38 JURGEN SCHMIDT 68
31.11 DICK BOWER 61	39.70 GORDON GILLIN 61	32.34 JOHN KORTHEUER 91	33.53 JOHN C RICHARDS 69
31.14 KEN KIMBALL 61	39.98 WILLIAM CHRISTIAN 60	32.34 JOHN KORTHEUER 60	33.57 JACK TRUBY 66
31.15 BOB CONGELLIERE 62	40.21 ART MAYER 60	32.86 RON JOHNSON 60	33.72 JOHN WOODS 68
31.22 LEN GOLDSTONE 61	42.10 LEN GOLDSTONE 61	34.02 LEN GOLDSTONE 61	34.16 BENEDICT REYNOLDS 66
31.47 HAMILTON MILROY 60	42.42 JAMES STEWART 61	35.60 ALFONSO ALLEN 61	34.98 AL EBBINGHAUS 67
31.57 WOODY GAIR 61	42.49 JACK MITCHELL 64	37.04 DICK BOWER 61	100 M. FREE M E N 65-69
100 M. FREE M E N 60-64	42.62 ERNIE HULME 63	37.47 HAMILTON MILROY 60	1:07.13 FRANK PIEMME 90
1:05.52 CHARLES BALDWIN 90	43.37 DICK BOWER 61	38.57 ERIC GUEST 61	1:09.90 FRANK PIEMME 66
1:10.70 ROBERT KLAGES 60	43.37 HAROLD DESMIDT 62	38.64 DONALD MESSER 60	1:14.26 ROBERT S BLAKE 66
1:11.63 WILLIAM PHILLIPS 63	100 M. BACK M E N 60-64	38.77 GORDON GILLIN 61	1:15.54 KEITH CARTER 67
1:12.37 BOB DORSE 60	1:17.31 PAUL HUTINGER 86	39.05 DONALD BAKER 60	1:16.87 JOHN C RICHARDS 69
1:12.64 DICK BOWER 61	1:25.63 KEN KIMBALL 61	100 M. FLY M E N 60-64	1:17.37 BENEDICT REYNOLDS 66
1:13.67 KEN KIMBALL 61	1:29.36 DON KORTEN 64	1:15.69 JOHN KORTHEUER 91	1:18.22 WAYNE SHADBOLT 67
1:14.04 OWEN DAVIES 61	1:30.72 GORDON GILLIN 60	1:15.69 JOHN KORTHEUER 60	1:18.52 JURGEN SCHMIDT 68
1:14.48 NORMAN SHELTON 60	1:31.39 WILLIAM CHRISTIAN 60	1:25.60 LEN GOLDSTONE 61	1:19.01 DICK UPSALL 67
1:15.09 GERALD MARKOFF 60	1:31.77 ART MAYER 60	1:31.13 ALFONSO ALLEN 61	1:19.55 JOHN WOODS 68
1:15.14 ELMER SCHNITZER 63	1:33.76 MORGAN BEYERS 64	1:38.40 DONALD MESSER 60	1:19.87 LEE ARTH 66
1:15.16 JORDAN WOLLE 63	1:35.45 HAROLD DESMIDT 62	1:40.34 WILLIAM CANNON 61	200 M. FREE M E N 65-69
200 M. FREE M E N 60-64	1:36.04 ROBERT BLOEBAUM 64	1:57.08 JACK MITCHELL 64	2:36.10 FRANK PIEMME 90
2:21.77 GRAHAM JOHNSTON 91	1:36.45 GENE DONNER 60	2:17.48 MILTON BRIER 63	2:40.40 FRANK PIEMME 66
2:21.77 GRAHAM JOHNSTON 60	1:38.73 FRED SPRENGER 60	200 M. FLY M E N 60-64	2:52.81 JOHN WOODS 68
2:36.72 WILLIAM PHILLIPS 63	200 M. BACK M E N 60-64	3:06.04 CHARLES MOSS 89	2:53.80 BENEDICT REYNOLDS 66
2:37.24 PETER BUCKLEY 61	2:49.82 ROGER FRANKS 89	3:23.71 JOHN LENARD 60	2:55.95 JURGEN SCHMIDT 68
2:38.52 LEN GOLDSTONE 61	3:12.69 KEN KIMBALL 61	3:39.32 CHARLES KOHNKEN 60	2:56.11 LEE ARTH 66
2:41.64 ROBERT KLAGES 60	3:23.65 HAROLD DESMIDT 62	3:46.44 THOMAS MICHELSON 60	2:56.66 ROBERT S BLAKE 66
2:47.04 CHARLES KOHNKEN 60	3:24.60 FRED SPRENGER 60	3:48.54 JOHN BAUMAN 61	2:59.86 WAYNE SHADBOLT 66
2:48.90 KEN KIMBALL 61	3:26.88 MORGAN BEYERS 64	3:55.71 ALFONSO ALLEN 61	3:00.92 DICK UPSALL 67
2:49.09 NORMAN SHELTON 60	3:31.48 GENE DONNER 60	4:06.73 WILLIAM CANNON 61	3:05.07 WILLIAM DEMASTUS 66
2:50.15 BOB CONGELLIERE 62	3:34.47 WILLIAM MONROE 60	4:07.48 ROBERT DONOVAN 60	3:07.85 RICHARD DANIEL 65
2:50.34 HAMILTON MILROY 60	3:36.92 ART MAYER 60	6:16.77 EUGENE CASTELLANO 63	400 M. FREE M E N 65-69
400 M. FREE M E N 60-64	3:37.32 JOHN BAUMAN 61	100 M. I.M. M E N 60-64	5:37.93 ED KERSWILL 91
5:14.08 WILLIAM PHILLIPS 88	3:37.46 JORDAN WOLLE 63	1:14.68 JOHN KORTHEUER 91	5:37.93 ED KERSWILL 65
5:36.37 WILLIAM PHILLIPS 63	3:39.43 THOMAS MICHELSON 60	1:14.68 JOHN KORTHEUER 60	5:46.24 FRANK PIEMME 66
5:40.80 PETER BUCKLEY 61	50 M. BRST M E N 60-64	1:18.48 RON JOHNSON 60	6:11.80 JOHN WOODS 68
5:49.19 TOM TAYLOR 60	35.31 JOHN KORTHEUER 91	1:18.68 GRAHAM JOHNSTON 60	6:18.11 JURGEN SCHMIDT 68
5:59.88 CHARLES KOHNKEN 60	35.31 JOHN KORTHEUER 60	1:20.70 LEN GOLDSTONE 62	6:21.90 LEE ARTH 66
6:10.00 KEN KIMBALL 61	38.02 KAHKONEN AULIS 60	1:25.13 GORDON GILLIN 60	6:22.30 BERNIE GUTTILLA 66
6:10.32 DON KORTEN 64	40.12 DON VAN ROSSEN 62	1:28.31 DON KORTEN 64	6:25.30 BENEDICT REYNOLDS 66
6:11.09 GORDON GILLIN 61	40.40 MILTON MARKS 60	1:28.96 BOB DORSE 60	6:27.40 WAYNE SHADBOLT 66
6:18.30 JORDAN WOLLE 63	40.72 DAN GRUENDER 62	1:29.30 DONALD BAKER 60	6:37.28 ROBERT S BLAKE 66

TOP TEN SHORT COURSE METERS

6:40.50 RICHARD DANIEL 65	46.52 A.DE LA VEGA 66	1:40.46 A.ARCIDIACOMO 67	7:00.60 R. LOIZEAUX 71
800 M. FREE M E N 65-69	47.12 JOHN STERN 67	200 M. I.M. M E N 65-69	7:25.90 JAMES FEENAN 71
11:55.05 FRANK PIEMME 90	49.42 DOUGLAS STRONG 66	3:03.80 FRANK PIEMME 90	800 M. FREE M E N 70-74
11:56.23 FRANK PIEMME 66	100 M. BRST M E N 65-69	3:07.45 FRANK PIEMME 66	12:15.49 RAY TAFT 89
11:58.99 ED KERSWILL 65	1:27.91 BARTON GREENBERG 89	3:17.13 LEE ARTH 66	13:49.11 DAVID MULLIKEN 72
12:59.11 LEE ARTH 66	1:28.94 JOSEPH KURTZMAN 65	3:19.96 ED KERSWILL 65	13:54.35 GEORGE HUBBELL 72
13:00.47 JURGEN SCHMIDT 68	1:35.18 FRANK PIEMME 66	3:21.03 IRVING KATZ 67	14:30.31 R. JOHNSTON 74
13:35.13 BERNIE GUTTILLA 66	1:37.66 LEE ARTH 66	3:23.45 JOHN WOODS 68	15:02.66 H.P. MOSELEY 73
13:51.97 ROBERT BLAKE 66	1:40.12 JAMES FORBES 65	3:34.89 JURGEN SCHMIDT 68	17:07.11 TONY VITALE 70
14:08.87 GILBERT YOUNG 69	1:41.69 NORMAN GARSOE 67	3:45.11 RICHARD DANIEL 65	17:42.76 DOUGLAS BARNETT 70
14:15.73 ROY LAGALY 69	1:42.02 IRVING KATZ 67	3:47.71 WILLIAM BRENNAN 69	18:17.99 JOSEPH MALLON 70
14:19.95 WILLIAM DEMASTUS 66	1:42.44 ED KERSWILL 65	3:49.42 NORMAN GARSOE 67	19:31.54 JOHN SIMMS 74
14:20.42 RALPH ROGERS 68	1:43.49 ROBERT MORRISON 69	3:50.69 DOUGLAS STRONG 66	19:37.39 WILLIAM MCCARTHY 74
1500 M. FREE M E N 65-69	1:43.82 GEORGE MELICK 67	400 M. I.M. M E N 65-69	21:46.55 JOHN TAYLOR 70
22:21.91 FRANK PIEMME 90	1:50.08 WILFORD DOLPHIN 66	6:42.13 FRANK PIEMME 90	1500 M. FREE M E N 70-74
22:37.53 ED KERSWILL 65	200 M. BRST M E N 65-69	6:48.34 FRANK PIEMME 66	23:59.12 ALDO DA ROSA 88
22:46.20 FRANK PIEMME 66	3:20.02 BARTON GREENBERG 89	7:06.39 LEE ARTH 66	26:42.83 BOB MERRICK 71
25:17.52 JURGEN SCHMIDT 68	3:31.06 LEE ARTH 66	7:17.84 KEITH CARTER 67	28:15.50 BOB ACKER 70
26:39.67 ROY LAGALY 69	3:37.57 JOSEPH KURTZMAN 65	7:50.59 EARL WALTER 69	29:04.29 HARWELL MOSELEY 72
27:05.39 RUSSELL PROCTOR 67	3:42.15 NORMAN GARSOE 67	8:02.67 RICHARD DANIEL 65	32:13.39 TONY VITALE 70
27:53.40 RALPH ROGERS 68	3:47.28 JAMES FORBES 65	8:11.89 WILLIAM BRENNAN 69	33:50.18 DAVE SNOW 71
28:40.75 VESTER BOONE 66	3:52.50 IRVING KATZ 67	9:14.85 VAL OUCHAKOF 67	34:43.34 HARRY ANDERSEN 72
28:45.18 ROBERT WRIGHT 67	3:59.52 JURGEN SCHMIDT 68	9:26.45 HOWARD STOKER 66	35:52.49 JOHN SIMMS 74
27:34.45 AUBREY DODD 68	4:00.54 GEORGE MELICK 67	12:31.07 T.R. JOHNSON 69	36:57.49 WILLIAM MCCARTHY 74
39:32.10 T.R. JOHNSON 69	4:00.66 ROBERT MORRISON 69	<u>50 M. FREE M E N 70-74</u>	<u>50 M. BACK M E N 70-74</u>
50 M. BACK M E N 65-69	4:10.31 KHOSROW SHADBEH 69	32.31 KELLEY LEMMON 86	38.44 RAY TAFT 89
35.54 PAUL HUTINGER 90	4:11.24 RALPH ROGERS 68	32.29 RAY HAKOMAKI 71NV	40.64 RAYMOND F TAFT 72
38.27 GEORGE GANDSEY 68	50 M. FLY M E N 65-69	33.61 JAY CRADDOCK 70	42.74 BOB MERRICK 71
39.63 FRANK PIEMME 66	33.63 FRANK PIEMME 90	34.36 JOHN R PATTEN 70	43.25 A.WEGHE 74
40.11 GEORGE BRINTON 67	34.42 FRANK PIEMME 66	34.73 JERRY SIEFERT 73	43.26 HARRY LIBER 73
42.40 ALFRED KAPTOR 65	35.19 JOSEPH KURTZMAN 65	34.98 LYNN SURLS 74	45.25 RAY HAKOMAKI 71
43.01 DICK UPSALL 67	36.48 KEITH CARTER 67	35.05 BOB MERRICK 71	47.13 TOM JACKSON 70
43.50 JACK TRUBY 66	36.98 JURGEN SCHMIDT 68	35.85 BILL ODMAN 71	48.40 CLIFF CROOME 74
43.95 LEE ARTH 66	39.52 LEE ARTH 66	36.08 R. LOIZEAUX 71	50.90 ROGER CHAMBERLAIN 74
44.77 WAYNE SHADBOLT 66	40.90 A.ARCIDIACONO 67	36.51 WILLIAM PROTEAU 70	51.35 BOB ACKER 70
45.00 JOHN WOODS 68	41.40 GEORGE BRINTON 67	37.40 FORBES MACK 73	51.47 EARL WALTER 70
45.28 ROY LAGALY 69	42.17 ROBERT MORRISON 69	100 M. FREE M E N 70-74	100 M. BACK M E N 70-74
100 M. BACK M E N 65-69	43.87 ART KELLEY 66	1:14.48 KELLEY LEMMON 86	1:24.30 RAY TAFT 89
1:20.13 PAUL HUTINGER 90	43.98 RICHARD DANIEL 65	1:15.22 RAYMOND F TAFT 72	1:31.57 RAYMOND F TAFT 72
1:26.37 GEORGE GANDSEY 68	100 M. FLY M E N 65-69	1:15.49 JAY CRADDOCK 70	1:34.39 BOB MERRICK 71
1:29.06 FRANK PIEMME 66	1:21.66 JOSEPH KURTZMAN 91	1:17.68 BOB MERRICK 71	1:34.83 A.WEGHE 74
1:29.56 GEORGE BRINTON 67	1:21.66 JOSEPH KURTZMAN 65	1:18.51 JOHN R PATTEN 70	1:35.40 ALDO V DA ROSA 73
1:31.55 IRVING KATZ 67	1:26.94 KEITH CARTER 67	1:18.52 LYNN SURLS 74	1:36.99 HARRY LIBER 73
1:36.11 JOHN WOODS 68	1:33.84 LEE ARTH 66	1:20.13 ALDO V DA ROSA 73	1:43.20 TOM JACKSON 70
1:38.29 WILFORD DOLPHIN 66	1:34.48 IRVING KATZ 67	1:20.43 JERRY SIEFERT 73	1:50.64 EARL WALTER 70
1:39.56 EARL WALTER 69	1:40.31 ART KELLEY 66	1:21.60 R. LOIZEAUX 71	1:53.15 GEORGE HUBBELL 72
1:39.97 WAYNE SHADBOLT 67	1:43.24 RICHARD DANIEL 65	1:22.30 BILL ODMAN 71	1:58.20 JAMES FEENAN 71
1:40.05 RUSSELL PROCTOR 67	1:55.36 PIERCE BRAY 67	1:25.63 H.P. MOSELEY 73	2:22.41 DOUGLAS BARNETT 70
1:41.20 JAMES EDWARDS 68	1:55.67 B.D. LAMAR 67	200 M. FREE M E N 70-74	200 M. BACK M E N 70-74
200 M. BACK M E N 65-69	1:57.72 DONALD KILB 65	2:46.86 RAY TAFT 89	3:07.57 RAY TAFT 89
2:54.25 PAUL HUTINGER 90	2:07.93 HOWARD STOKER 66	3:01.01 JOHN R PATTEN 70	3:34.20 ALDO V DA ROSA 73
3:13.58 GEORGE GANDSEY 68	200 M. FLY M E N 65-69	3:01.28 BILL ODMAN 71	3:34.95 JOHN WRENN 70
3:27.87 LEE ARTH 66	3:10.49 JOSEPH KURTZMAN 91	3:07.83 BOB MERRICK 71	3:36.64 BOB MERRICK 71
3:28.99 GEORGE BRINTON 67	3:10.49 JOSEPH KURTZMAN 65	3:08.54 GEORGE HUBBELL 72	3:43.88 RAY HAKOMAKI 71
3:32.49 JOHN WOODS 68	3:23.27 KEITH CARTER 67	3:09.05 HARWELL MOSELEY 72	3:46.32 TOM JACKSON 70
3:33.26 RUSSELL PROCTOR 67	3:32.88 LEE ARTH 66	3:09.86 JERRY SIEFERT 73	3:56.83 GEORGE HUBBELL 72
3:33.41 WILFORD DOLPHIN 66	3:51.42 ART KELLEY 66	3:15.57 DAVID MULLIKEN 72	4:06.27 EARL WALTER 70
3:43.09 JOAQUIN SILVERIO 65	4:19.17 DOUGLAS STRONG 66	3:20.10 BOB ACKER 70	4:13.74 WALTER LYNCH 70
3:49.97 JOHN CRANCH 68	7:03.89 T.R. JOHNSON 69	3:21.41 R. JOHNSTON 74	5:11.14 JOHN TAYLOR 70
3:54.42 EARL WALTER 69	100 M. I.M. M E N 65-69	3:29.95 TOM JACKSON 70	50 M. BRST M E N 70-74
3:55.53 NORMAN GARSOE 67	1:20.20 RAY TAFT 86	400 M. FREE M E N 70-74	40.81 PAUL KRUP 89
50 M. BRST M E N 65-69	1:21.38 FRANK PIEMME 66	5:56.06 RAY TAFT 89	41.94 PAUL KRUP 74
38.18 JOSEPH KURTZMAN 91	1:29.25 LEE ARTH 66	6:23.36 RAYMOND F TAFT 72	43.91 BOB MERRICK 71
38.18 JOSEPH KURTZMAN 65	1:30.39 IRVING KATZ 67	6:40.44 BOB MERRICK 71	44.03 ROBERT MORRISON 70
41.19 JOHN C RICHARDS 69	1:31.18 GEORGE BRINTON 67	6:44.16 GEORGE HUBBELL 72	46.33 ROGER CHAMBERLAIN 74
42.46 LEE ARTH 66	1:31.23 JURGEN SCHMIDT 68	6:45.85 H.P. MOSELEY 73	47.80 FORBES MACK 72
43.03 ROBERT MORRISON 69	1:31.47 ED KERSWILL 65	6:54.56 DAVID MULLIKEN 72	48.83 HUGH COYLE 72
43.69 JAMES FORBES 65	1:34.12 WAYNE SHADBOLT 67	6:55.87 LYNN SURLS 74	49.03 RAY HAKOMAKI 71
44.48 GEORGE MELICK 67	1:39.14 JOHN WOODS 68	6:57.80 BOB ACKER 70	49.94 CLIFF CROOME 74
44.89 NORMAN GARSOE 67	1:40.34 RICHARD DANIEL 65	6:58.47 R. JOHNSTON 74	52.27 BOB ACKER 70

TOP TEN SHORT COURSE METERS

55.28 JOHN PALLIN	71	8:28.49 H.P. MOSELEY	73	1:34.84 EDWARD SHEA	90	200 M. FLY M E N 75-79	
100 M. BRST M E N 70-74		8:44.81 BOB ACKER	70	1:36.10 EDWARD SHEA	77	4:01.10 DON MCCULLOUGH	90
1:32.13 ALDO DA ROSA	88	<u>50 M. FREE M E N 75-79</u>		1:56.63 FRED WIGGIN	75	4:08.89 DON MCCULLOUGH	76
1:37.55 BOB MERRICK	71	32.78 KELLEY LEMMON	88	1:57.62 HARRY BARTLETT	76	4:39.76 NELSON OTIS	75
1:37.55 ALDO V DA ROSA	73	38.44 ALLAN J DE LAY	76	1:58.28 FRANK TILLOTSON	76	9:13.20 MAX LUNA	76
1:39.17 PAUL KRUP	74	39.04 BERT KASSELL	78	1:58.94 STANLEY PUDELL	75	100 M. I.M. M E N 75-79	
1:47.26 ROBERT MORRISON	70	39.88 HARRY BARTLETT	75	2:02.19 SYD HENDY	77	1:35.55 KELLEY LEMMON	89
1:47.59 JOHN WRENN	70	40.04 CHARLES BREEDING	75	2:02.87 CHARLES BREEDING	75	1:43.45 DON MCCULLOUGH	76
1:48.16 ROGER CHAMBERLAIN	74	40.11 ROBERT SMITH	75	2:04.96 BERT KASSELL	78	1:44.61 EDWIN WOLPAW	76
1:50.03 CHET GOSSTYLA	71	41.72 WILLIAM GRANT	78	2:07.34 ED ALLEN	76	1:45.63 GEORGE RAFTER	75
1:50.43 GEORGE HUBBELL	72	41.92 ED ALLEN	75	2:21.00 C.J. HAMILTON	78	1:45.67 NELSON OTIS	75
1:54.52 FORBES MACK	72	42.50 JACK MATTINGLY	77	200 M. BACK M E N 75-79		1:50.55 JACK MATTINGLY	77
1:55.50 HUGH COYLE	72	43.00 CHARLES ROY	77	3:27.82 EDWARD SHEA	91	1:55.40 WILLIAM GRANT	78
200 M. BRST M E N 70-74		45.83 MAURICE STERN	75	3:27.82 EDWARD SHEA	77	2:00.64 BERT KASSELL	78
3:24.66 ALDO DA ROSA	88	100 M. FREE M E N 75-79		4:22.70 FRANK TILLOTSON	76	2:00.78 ROBERT SMITH	75
3:40.82 PAUL KRUP	74	1:15.94 KELLEY LEMMON	88	4:37.45 SYD HENDY	77	2:02.74 PAUL MENZIES	75
3:47.88 ALDO V DA ROSA	73	1:31.67 HARRY BARTLETT	75	4:40.52 BERT KASSELL	78	2:15.15 MAX LUNA	76
3:54.51 GEORGE HUBBELL	72	1:32.05 CHARLES BREEDING	75	4:50.85 ED ALLEN	76	200 M. I.M. M E N 75-79	
4:08.27 ROBERT MORRISON	70	1:36.96 ROBERT SMITH	75	5:34.11 BOB COYLE	78	3:35.61 KELLEY LEMMON	88
4:17.39 HARWELL MOSELEY	72	1:41.77 ALLAN J DE LAY	75	5:35.12 L.SCHERMERHORN	78	3:50.22 DON MCCULLOUGH	76
50 M. FLY M E N 70-74		1:42.35 ERNEST VAN HORN	75	50 M. BRST M E N 75-79		3:57.56 GEORGE RAFTER	75
36.09 ANDREW HOLDEN	90	1:43.16 SYD HENDY	77	45.73 KELLEY LEMMON	89	4:10.28 NELSON OTIS	75
37.64 ANDREW HOLDEN	71	1:54.48 GARY WEISENTHAL	78	46.33 DON MCCULLOUGH	76	4:44.21 FRANK TILLOTSON	76
39.69 PAUL KRUP	74	1:55.47 LEONARD BRISCO	78	47.43 JERRY EVERALL	77	400 M. I.M. M E N 75-79	
41.18 H.P. MOSELEY	73	1:56.84 L.SCHERMERHORN	78	47.84 EDWIN WOLPAW	76	7:49.57 E. DON MCCULLOUGH90	
42.31 CHET GOSSTYLA	71	1:58.92 CHARLES ROY	77	49.33 MURRAY EAGER	75	8:49.15 NELSON OTIS	75
44.49 BOB MERRICK	71	200 M. FREE M E N 75-79		51.53 WILLIAM GRANT	78	<u>50 M. FREE M E N 80-84</u>	
46.98 CLIFF CROOME	74	2:55.63 KELLEY LEMMON	88	51.78 STANLEY PUDELL	75	37.85 GERSON SOBEL	91
47.53 RAY HAKOMAKI	71	3:27.94 HARRY BARTLETT	75	56.34 ALLAN J DE LAY	76	37.85 GERSON SOBEL	81
47.83 ROGER CHAMBERLAIN	74	3:59.27 ERNEST VAN HORN	75	1:01.30 ED ALLEN	76	40.74 LIONEL PEREIRA	81
53.50 RUSSELL DOLAN	70	4:01.08 GARY WEISENTHAL	78	1:02.04 C.J. HAMILTON	78	40.96 C.SUNDERLAND	82
100 M. FLY M E N 70-74		4:04.77 JACK MATTINGLY	77	1:07.40 ROBERT SMITH	75	43.39 DAVID McAFEE	81
1:31.20 PAUL KRUP	89	4:27.84 L.SCHERMERHORN	78	100 M. BRST M E N 75-79		46.41 LEE STARR	82
1:34.72 PAUL KRUP	74	4:35.07 LEONARD BRISCO	78	1:42.06 DON MCCULLOUGH	90	48.74 JOHN GLENN	81
1:38.23 HARWELL MOSELEY	72	5:29.00 MAX LUNA	76	1:43.08 DON MCCULLOUGH	76	51.42 RICHARD KANE	80
1:42.81 CHET GOSSTYLA	71	5:40.32 H. STEINBLISS	78	1:47.97 JERRY EVERALL	76	53.19 DON NEEFE	83
1:45.76 ALDO V DA ROSA	73	6:12.24 LARRY HART	79	1:53.00 MURRAY EAGER	75	1:03.83 JAMES CLARK	80
1:58.10 JOHN WRENN	70	400 M. FREE M E N 75-79		2:01.55 HARRY BARTLETT	76	1:07.80 HAROLD HOFFMAN	83
200 M. FLY M E N 70-74		6:23.81 DEXTER WOODFORD	89	2:02.99 STANLEY PUDELL	75	100 M. FREE M E N 80-84	
3:31.97 ANTON CERER	89	7:16.18 GEORGE RAFTER	75	2:11.57 ERNEST VAN HORN	75	1:27.87 GERSON SOBEL	91
3:41.95 PAUL KRUP	74	7:30.36 HARRY BARTLETT	75	2:15.44 CHARLES ROY	77	1:27.87 GERSON SOBEL	81
3:51.97 CHET GOSSTYLA	71	8:08.94 MAURICE STERN	75	2:19.03 C.J. HAMILTON	78	1:41.55 DAVID McAFEE	81
3:55.75 HARWELL MOSELEY	72	8:12.16 GARY WEISENTHAL	78	3:28.28 LOU PARKER	78	1:42.30 LIONEL PEREIRA	81
4:00.53 ALDO V DA ROSA	73	8:37.62 ERNEST VAN HORN	75	200 M. BRST M E N 75-79		1:56.68 RICHARD KANE	80
100 M. I.M. M E N 70-74		8:46.77 JACK MATTINGLY	77	3:36.71 E. DON MCCULLOUGH90		2:02.38 JACK HOEY	81
1:21.87 RAY TAFT	89	9:52.15 LEONARD BRISCO	78	3:43.74 DON MCCULLOUGH	76	2:28.53 JAMES CLARK	80
1:26.38 ANDREW HOLDEN	71	13:38.73 LARRY HART	79	4:05.09 JERRY EVERALL	77	2:31.00 RUFUS CLARK	80
1:30.36 RAYMOND F TAFT	72	800 M. FREE M E N 75-79		4:12.57 MURRAY EAGER	75	200 M. FREE M E N 80-84	
1:31.47 BOB MERRICK	71	13:17.26 DEXTER WOODFORD	89	4:27.25 NELSON OTIS	75	3:22.37 GERSON SOBEL	91
1:36.08 A.WEGHE	74	16:33.03 GARY WEISENTHAL	78	4:37.57 PAUL MENZIES	75	3:22.37 GERSON SOBEL	81
1:37.83 PAUL KRUP	74	17:52.35 FRANK TILLOTSON	76	4:54.65 C.J. HAMILTON	78	3:45.24 DAVID McAFEE	81
1:38.48 CHET GOSSTYLA	71	24:24.62 H. STEINBLISS	78	5:45.50 H. STEINBLISS	78	4:18.65 RICHARD KANE	80
1:39.67 RAY HAKOMAKI	71	1500 M. FREE M E N 75-79		7:09.17 LOU PARKER	78	4:47.91 DON NEEFE	83
1:40.01 H.P. MOSELEY	73	26:04.74 DEXTER WOODFORD	89	50 M. FLY M E N 75-79		5:20.45 RUFUS CLARK	80
1:40.05 ROGER CHAMBERLAIN	74	30:34.28 GARY WEISENTHAL	78	43.99 BILL SHOTT	85	400 M. FREE M E N 80-84	
1:40.96 GEORGE HUBBELL	72	35:25.35 FRANK TILLOTSON	76	43.87 EDWIN WOLPAW	76NV	7:32.64 GUS LANGNER	86
200 M. I.M. M E N 70-74		52:13.06 LARRY HART	79	47.25 GEORGE RAFTER	75	8:14.20 DAVID McAFEE	81
3:08.13 RAY TAFT	89	50 M. BACK M E N 75-79		47.30 DON MCCULLOUGH	76	9:16.77 RICHARD KANE	80
3:23.89 ALDO V DA ROSA	73	43.13 EDWARD SHEA	90	50.78 JACK MATTINGLY	77	13:25.84 JAMES KIERNAN	82
3:42.78 CHET GOSSTYLA	71	43.84 EDWARD SHEA	77	52.38 WILLIAM GRANT	78	800 M. FREE M E N 80-84	
3:45.70 GEORGE HUBBELL	72	51.88 ALLAN J DE LAY	76	55.76 NELSON OTIS	75	15:41.78 GUS LANGNER	86
3:49.69 HARWELL MOSELEY	72	51.96 FRED WIGGIN	75	58.55 ROBERT SMITH	75	NO SWIMMERS	
3:52.24 ROGER CHAMBERLAIN	74	52.22 FRANK TILLOTSON	76	58.77 FRED WIGGIN	75	1500 M. FREE M E N 80-84	
3:56.90 DAVID MULLIKEN	72	52.28 WILLIAM GRANT	78	1:00.06 FRANK TILLOTSON	76	29:58.32 GUS LANGNER	86
4:00.38 BOB ACKER	70	53.11 STANLEY PUDELL	75	1:36.73 MAX LUNA	76	38:55.15 RICHARD KANE	80
4:08.75 EARL WALTER	70	54.01 ROBERT SMITH	75	100 M. FLY M E N 75-79		50 M. BACK M E N 80-84	
400 M. I.M. M E N 70-74		54.23 SYD HENDY	77	1:44.78 DON MCCULLOUGH	90	50.13 HERB EISENSCHMIDT87	
6:50.27 RAY TAFT	89	54.60 CHARLES BREEDING	75	1:49.92 DON MCCULLOUGH	76	54.32 JACK HOEY	81
7:27.79 ALDO V DA ROSA	73	56.92 ED ALLEN	76	1:50.24 GEORGE RAFTER	75	54.75 LIONEL PEREIRA	81
8:01.61 CHET GOSSTYLA	71	100 M. BACK M E N 75-79		3:49.72 MAX LUNA	76	55.93 LEE STARR	82

TOP TEN SHORT COURSE METERS

57.52 JOHN GLENN	81	10:24.87 JOE KAUFMAN	86
1:02.71 JESSE COON	80	800 M. FREE M E N 85-89	
1:07.11 JAMES CLARK	80	16:53.90 GUS LANGNER	88
1:12.88 RUFUS CLARK	80	NO SWIMMERS	
100 M. BACK M E N 80-84		1500 M. FREE M E N 85-89	
1:50.89 HERB EISENSCHMIDT87		32:20.20 GUS LANGNER	88
2:02.26 LEE STARR	82	NO SWIMMERS	
2:07.75 JACK HOEY	81	50 M. BACK M E N 85-89	
2:40.08 RUFUS CLARK	80	57.97 PETER JURCZYK	90
2:41.79 DON NEEFE	83	59.88 HERB EISENSCHMIDT 85	
200 M. BACK M E N 80-84		1:13.80 JOE KAUFMAN	86
4:01.12 HERB EISENSCHMIDT87		1:13.87 GUS LANGNER	87
4:28.16 JACK HOEY	81	100 M. BACK M E N 85-89	
50 M. BRST M E N 80-84		2:12.69 PETER JURCZYK	90
55.32 JIM PENFIELD	89	2:13.02 HERB EISENSCHMIDT 85	
1:07.62 JOHN GLENN	81	2:32.38 JOE KAUFMAN	86
1:08.19 RUFUS CLARK	80	2:34.08 ABE OLANOFF	85
1:21.81 JAMES CLARK	80	3:04.34 GUS LANGNER	88
1:31.02 RICHARD KANE	80	200 M. BACK M E N 85-89	
100 M. BRST M E N 80-84		4:55.62 PETER JURCZYK	90
2:09.01 JIM PENFIELD	89	6:28.82 GUS LANGNER	88
2:32.95 RUFUS CLARK	80	50 M. BRST M E N 85-89	
2:33.44 JESSE COON	80	1:05.82 GUS LANGNER	88
2:51.73 JOHN GLENN	81	1:08.49 ABE OLANOFF	85
200 M. BRST M E N 80-84		1:08.91 GUS LANGNER	87
5:03.34 WILLIAM SHARE	89	100 M. BRST M E N 85-89	
5:13.26 RUFUS CLARK	80	2:31.20 GUS LANGNER	89
5:15.41 JIM PENFIELD	82	2:34.48 ABE OLANOFF	85
50 M. FLY M E N 80-84		2:42.41 GUS LANGNER	88
49.08 JESSE COON	91	200 M. BRST M E N 85-89	
49.08 JESSE COON	80	5:30.76 GUS LANGNER	88
1:02.52 JIM PENFIELD	82	5:42.36 ABE OLANOFF	85
1:17.10 RICHARD KANE	80	50 M. FLY M E N 85-89	
1:33.25 RUFUS CLARK	80	1:21.90 ABE OLANOFF	91
100 M. FLY M E N 80-84		1:21.90 ABE OLANOFF	85
2:07.29 JESSE COON	91	1:45.02 GUS LANGNER	87
2:07.29 JESSE COON	80	100 M. I.M. M E N 85-89	
2:45.39 JIM PENFIELD	82	2:23.03 HERB EISENSCHMIDT91	
3:04.29 RICHARD KANE	80	2:23.03 HERB EISENSCHMIDT 85	
200 M. FLY M E N 80-84		2:30.01 ABE OLANOFF	85
5:14.66 JESSE COON	91	2:44.23 GUS LANGNER	87
5:14.55 JESSE COON	80NV	200 M. I.M. M E N 85-89	
7:13.49 RICHARD KANE	80	5:02.31 HERB EISENSCHMIDT91	
100 M. I.M. M E N 80-84		5:02.31 HERB EISENSCHMIDT 85	
1:53.59 HERB EISENSCHMIDT87		400 M. I.M. M E N 85-89	
2:38.62 RUFUS CLARK	80	10:47.13 HERB EISENSCHMIDT91	
2:42.29 RICHARD KANE	80	10:47.13 HERB EISENSCHMIDT 85	
200 M. I.M. M E N 80-84		<u>50 M. FREE M E N 90-94</u>	
4:36.38 HERB EISENSCHMIDT87		1:14.28 PAUL SPANGLER	89
NO SWIMMERS		NO SWIMMERS	
400 M. I.M. M E N 80-84		100 M. FREE M E N 90-94	
9:25.63 HERB EISENSCHMIDT88		2:49.33 PAUL SPANGLER	90
NO SWIMMERS		NO SWIMMERS	
<u>50 M. FREE M E N 85-89</u>		200 M. FREE M E N 90-94	
44.61 GUS LANGNER	89	5:51.45 PAUL SPANGLER	90
47.80 GUS LANGNER	87	NO SWIMMERS	
52.59 ABE OLANOFF	85	400 M. FREE M E N 90-94	
58.76 JOE KAUFMAN	86	11:09.76 PAUL SPANGLER	89
59.25 MAX ENGEL	87	NO SWIMMERS	
100 M. FREE M E N 85-89		1500 M. FREE M E N 90-94	
1:41.46 GUS LANGNER	89	51:43.20 PAUL SPANGLER	90
1:50.54 GUS LANGNER	87	NO SWIMMERS	
2:14.64 JOE KAUFMAN	86	50 M. BACK M E N 90-94	
2:29.22 MAX ENGEL	87	1:29.99 TOM LANE	89
200 M. FREE M E N 85-89		NO SWIMMERS	
3:48.20 GUS LANGNER	89	50 M. BRST M E N 90-94	
4:10.99 GUS LANGNER	87	1:50.16 TOM LANE	89
400 M. FREE M E N 85-89		NO SWIMMERS	
7:54.24 GUS LANGNER	88		
8:53.14 GUS LANGNER	88		

TOP TEN SHORT COURSE METERS

*****	CHRISTINE BAXTED	27	GAYLA BROWN	41	ROSE STEWARD	73
RELAYS: WOMEN 200 M. FREE	CAROLE SHIGAKI	36			MARGARET NAGLE	74
*****	JENN SANTILLANO	38	200+		PNA	4:13.31
76 +	MARCIA BARRY	43	R:TAMALPAIS	89 2:11.64	MARYAN BURKE	66
R:UNIV HOUSTON	PARRIS ISLAND	2:14.80			MAXINE CARLSON	71
88 1:59.79	JULIE WARNER	29			LEE HOLM	77
PEGGY PLOUGH	PAM DRAFTS	34			PAT MATTHIESEN	75
STACY JONES	VICTORIA TRACY	35			*****	
JANE HALLENBECK	LAURA ACHURCH	29	HSAM	2:48.39	RELAYS: WOMEN 200 M. MEDLEY	
SANDY JOHNSON	CONN MASTERS	2:19.12			*****	
NO RELAY TEAMS	ANNE GRUCEE	28			76 +	
	SUSAN ZAVALKO	41			R:PACIFIC NW	90 2:22.24
100+	TERRY HELLAUER	31			JULIE CORMAN	
R:AIR FORCE	ELIZ CUSENELLI	27	SPM	2:49.20	BETH BRENNER	
91 1:59.29	AFAM	2:19.41			STEFANI FERSCH	
JUDY HUPP	KELLY LAZERSON	30			CAROL BROWN	
KAREN BURTON	KAMERA MURALT	33			PNA	2:42.80
ANNA PLANTIER	LEANN HERMANSON	33			KATE STEELE	26
KIMBERLY ARATA	ALEXANDRIA FABBRO	27	OJAI	2:55.40	TAMMI KEELER	23
AFAM	IEM	2:25.17			PAMELA STALTER	24
1:59.29	WHITNEY PARSONS	25			KATE SUTHERLAND	43
JUDY HUPP	CAROLYN KENT	45				
27	CYNTHIA TAGGART	36			100+	
KAREN BURTON	MARGARET HAIR	36	NSM	3:00.60	R:SAN DIEGO	86 2:20.92
29	HEARTLAND S A M	2:25.24			CATHY NEVILLE	
ANNA PLANTIER	SUE TOLMAN	30			DAWN CARLSON	
28	SHERRY BROTHERS	32			BARBARA DUNBAR	
KIMBERLY ARATA	PATTI EMERICK	37			DIANA EVANS	
SBAY	LISA WROBEL	34			AFAM	2:10.05NV
2:05.14	OREGON	2:26.91			JUDY HUPP	27
ELIZABETH SILVER	L.HOLLINGSWORTH	35			KAREN BURTON	29
31	GAIL KIMBERLING	35			KIMBERLY ARATA	31
SARAH PAGE	LISA PARKER	39			ANNA PLANTIER	28
27	KRISTEN MELTON	32			SBAY	2:22.72
ANN T.FINLEY	160+				ELIZABETH SILVER	31
29	R:DC MASTERS	89 2:01.10			AMY NELSON	24
AMY NELSON	SUSAN SKIFF				SUSAN STOHRER	28
24	BARBARA ZAREMSKI				DEDE MOORE	31
HSAM	JAYNE BRUNER				PSP	2:26.06
2:11.22	JACKI HIRSTY				VANESSA RICHEY	25
VICKY DAVIDSON	ARIZONA MASTERS	2:13.60			TRACY MCFARLANE	25
26	JANET GETTLING	43			ANITA CHATIGNY	36
BECKY JACKMAN	JUDY SEARS	40			SUSAN ZAGAR	30
28	JUDY GILLIES	43			EMPIRE STATE	2:27.93
SHERYL WALKER	JONELLE SCHMIDT	40			KRISTIN BROOKS	26
35	SBAY	2:33.43			DENISE DEPPERER	24
JONI SAITO	MARCIA BARRY	43			CHERYL KUPAN	27
27	ELLEN LOHNEISS	39			HEATHER SAYLOR	25
PSP	JENN SANTILLANO	38			TRIAD MASTERS	2:28.00
2:16.42	PATRICIA BURBANK	44			JILL STEPHENSON	27
LORI WESTRA	OJAI	2:38.22			KANDEE SPAIN	27
25	DAWN C BRINKER	42			KAREN BUNCH	34
LYNDA ANDERSON	CAROLE J BORLAND	48			JENNIFER WYNN	24
36	VICTORIA MATTHEWS	48			HSAM	2:42.81
ANITA CHATIGNY	CHRIS SPRACKLIN	46			BECKY JACKMAN	28
36	BOLT	2:43.65			SHERYL WALKER	35
VANESSA RICHEY	CAROL GILCHRIST	39			JONI SAITO	27
25	CINDY ELLZEY	32			TERRI MARTIN	21
PALM SPRINGS PI	KATHY VAN WIE	45			PARRIS ISLAND	2:47.22
2:23.06	VICKI BUCCINO	45			PAM DRAFTS	34
LYNDA ANDERSON	OJAI B	2:53.05			JULIE WARNER	29
26	JULIENNE GIULIANI	27			LAURA ACHURCH	29
BECKY KNOTT	JAN RAINS	57			JULIE ROCCO	25
26	RUTH FARNHAM	61			GREATER INDIANA	2:54.68
KANDI HOVSEPIAN	DONNA LECHMAN	33			DIANE SIDNER	31
33	HSAM	3:14.81			BETH MILLER	33
LORI WESTRA	CHRISTINE BIBY	44			ANN FEARRIN	25
25	BARBARA THOMPSON	45			SUSAN GENTRY	30
PARRIS ISLAND	CECILY MCNEIL	46				
2:35.60						
SUE MYERS						
27						
BETH TELLES						
23						
JULIE ROCCO						
25						
LAURIE SPERRY						
27						
120+						
R:SUT LOUIS						
89 1:58.02						
SUSAN RICHMOND						
CATHERINE KOHN						
LESLIE COOPER						
JEANNE HANISCH						
GREENVILLE						
2:02.98						
APRILLE DILL						
30						
KATIE MCNAMARA						
36						
CLAIRE RICHMOND						
27						
BETH SCHEIMANN						
29						
O*H*I*O MASTERS						
2:03.84						
ROBIN KALMAN						
32						
JENNIFER UEBELE						
26						
JOANNE BOWSER						
37						
JENNIFER AUCOTT						
29						
MINNESOTA						
2:14.63						
SUE KURAK						
32						
JUDI ERICKSON						
26						
KIM ROSENWINKEL						
29						
VICKY SANDBERG						
34						
SBAY						
2:14.69						

TOP TEN SHORT COURSE METERS

120+		ACQUELINE DUNLOP	60	PNA	4:32.01	JAMIE STEWART	
R:ST LOUIS	89	LIZABETH PEARSON	41	MAXINE CARLSON	71	HSAM	6:08.07
CATHERINE KOHN		SYLVIA GLENN	53	MARYAN BURKE	66	SHERYL DASCO	41
JEANNE HANISCH		HSAM	3:07.18	PAT MATTHIESEN	75	VIRGINIA BENDIK	38
SUSAN RICHMOND		SHERYL DASCO	41	LEE HOLM	77	CHRISTINE BIBY	44
LESLIE COOPER		VIRGINIA BENDIK	38	*****		PATTI EMERICH	38
LAKESIDE MASTER	2:18.56	CHRISTINE BIBY	44	RELAYS: WOMEN 400 M. FREE			
MARY C CURL	34	PATTI EMERICH	38	*****			
A.WRIGHT-BELKNAP	41			76 +		200+	
P.HAEBERLIN	28	200+		R:LONGHORN	90	R:SAN DIEGO	90
GINA GATTI	28	R:TAMALPAIS	89	LESLIE MANN	4:45.47	ADRIENNE PIPES	6:06.07
O*H*I*O MASTERS	2:20.33	LAVERNE ADAMS		ALICE HORN		LAURA MELDRUM	
JOANNE BOWSER	37	NANCY RIDOUT		SUE LAMB		SUSAN RITTENHOUSE	
JENNIFER UEBELE	26	SHERRY RADEMAKER		MARLO KIPE		JANET LAMOTT	
JENNIFER AUCOTT	29	ANGELA KONIG		NO RELAY TEAMS		O*H*I*O MASTERS	6:33.80
ROBIN KALMAN	32	LAKESIDE MASTER	2:54.38			DORIS LOCKER	47
IEM	2:31.73	M.JANE MULLINS KY	60	100+		LILLY KRON	59
VICKI MARSH	28	CAROL FERGUSON KY	60	R:ST. LOUIS	87	MAUREEN KOSS	48
SHARON SHNEIDER	28	DIANE BLYTHE KY	28	JEANNE HANISCH	4:34.65	ROBERTA BOBERSKI	51
H.CARLING-SMITH	40	MARY ANN STONE	58	SUSAN RICHMOND		HEARTLAND S A M	6:39.41
ELIN ZANDER	36	ST. PETE	3:08.38	LESLIE COOPER		CAROL SING	49
GREATER INDIANA	2:32.97	BARBARA ALLEN	58	KELLY BURKE		NANCY REED	64
SUSAN FRANCIS	38	ELAINE BROMWICH	48	AFAM	4:26.82NV	MARILYN RAMEY	50
SHARON WISE	44	SANDY STEER	52	KIMBERLY ARATA	31	JUDY TILARO	56
JULIE BICKEL	30	JACQUELYN PIPER	54	ANNA PLANTIER	28		
CATHY SCHUSTER	33	O*H*I*O MASTERS	3:17.39	KAREN BURTON	29	240+	
MINNESOTA	2:38.40	LUISE EASTON	52	JUDY HUPP	27	R:SAN DIEGO	90
S.LEE-SHERIDAN	39	MARIANNE BROGAN	56	SBAY	4:48.71	VIOLA THOMPSON	6:19.91
VICKY SANDBERG	34	ROBERTA BOBERSKI	51	DEDE MOORE	31	DIANA SILVA	
KIM ROSENWINKEL	29	DORIS LOCKER	47	SUSAN STOHRER	28	ROBERTA TURCOTTE	
JUDI ERICKSON	26	OJAI	3:22.27	ELISABETH SILVER	31	BARBARA DUNBAR	
AFAM	2:39.45	MITNEE DUQUE	56	SARAH PAGE	27	O*H*I*O MASTERS	7:51.25
KAMERA MURALT	33	MAGGIE P MORS	65	EMPIRE STATE	4:57.67	RUTH WUNDERLICH	73
KELLY LAZERSON	30	CAROLE J BORLAND	48	KRISTIN BROOKS	26	BETTY KAKOS	60
LEANN HERMANSON	33	JAN K RAINS	57	EVE HARTMAN	29	LUISE EASTON	52
ALEXANDRIA FABBRO	27	HSAM	3:35.01	HEATHER SAYLOR	25	MARIANNE BROGAN	56
IEM	2:47.24	JUDY TILARO	56	CHERYL KUPAN	27		
MARGARET HAIR	35	MARILYN RAMEY	51	HSAM	5:19.77	280+	
WHITNEY PARSONS	25	CAROL SING	50	SHERRY WALKER	35	R:SAN MATEO	89
CAROLYN KENT	45	ELFRIEDE LEHTO	58	TERRI MARTIN	21	AUDREY ETIENNE	8:00.77
MAIDY KRESS	40	BOLT	4:13.53	JONI SAITO	27	PAT MATTHIESEN	
IEM	2:48.32	CLAIRE ROACH	64	BECKY JACKMAN	28	HELEN ROEMESSET	
MARDELLE SHAGOOL	54	FRANCES FILKINS	43			ZADA TAFT	
JENNY HORMEL	30	ROSEMARY KARIKER	72	120+		ST.LOUIS	8:02.64
JUDY KELSCH	29	CINDY ELLZEY	32	R:SAN DIEGO	89	REGAN KENNER	67
KELLY VIGELAND	28	NSM	4:25.33	BARBARA DUNBAR	4:25.46	DORIS PETERS	68
SBAY	2:49.57	JOAN ANDERSON	43	CATHY NEVILLE		EDITH HENDRY	80
CHRISTINE BAXTED	27	MARIE BAILEY	61	DIANA DOLAN-EVANS		ANNALOU CARRIER	70
NADINE THOMPSON	32	ERIN SMITH	41	MARILYN FINK		*****	
MARCIA BARRY	43	JOAN SLASON	65	ST. LOUIS	4:37.46	RELAYS: WOMEN 400 M. MEDLEY	
JENN SANTILLANO	38			JEANNE MESSINA	31	*****	
PSP	2:51.80	240+		CINDY ECKENRODE	29	76 +	
LORI B WESTRA	25	R:SAN DIEGO	90	DIANE LETENDRE	40	R:EMPIRE STATE	91
ANITA CHATIGNY	36	BOBBI TURCOTTE	3:05.53	LESLIE COOPER	31	DEANNA COLACITO	5:07.60
KANDI HOVESPIAN	33	ALICIA COLEMAN		SBAY	5:17.84	MONICA LEE	
SUSAN M ZAGAR	30	BARBARA DUNBAR		MARCIA BARRY	43	CHERYL KUPAN	
		VIOLA THOMPSON		JENN SANTILLANO	38	KRISTIN BROOKS	
		NO RELAY TEAMS		ELLEN LOHNEISS	39	EMPIRE STATE	5:07.60
160+				NADINE THOMPSON	32	DEANNA COLACITO	23
R:D. C. MASTERS	89	280+		EMPIRE STATE	6:18.30	MONICA LEE	24
SUSAN SKIFF		R:WALNUT CREEK	89	LANA VYADRO	44	CHERYL KUPAN	27
JOANN LEILICH		JEAN DURSTON	3:45.54	KATHRYN HALLISSEY	27	KRISTIN BROOKS	26
JAYNE BRUNER		SALLY JOY		JANET COHN	37		
JACKI HIRSTY		JAE HOWELL		KAREN BLAND	23	100+	
SBAY	2:33.43	MARY JANE REEVES				R:ST. LOUIS	87
MARCIA BARRY	43	ST. LOUIS	3:48.16	160+		SUSAN RICHMOND	4:58.83
JENN SANTILLANO	38	EDITH HENDRY	80	R:LONGHORN	90	JEANNE HANISCH	
ELLEN LOHNEISS	39	ANNALOU CARRIER	70	CATHERINE DANIEL	5:13.59	LESLIE COOPER	
PATRICIA BAXTED	54	CAROL TAYLOR	62	M.MARCANTONIO		KELLY BURKE	
SCAQ	2:56.34	DORIS PETERS	68	ELLEN HILL		AFAM	4:52.02NV
LINDA TEPE	44					ANNA PLANTIER	28

TOP TEN SHORT COURSE METERS

JUDY HUPP	27	240+	MAIDY KRESS	40	KIRK BUESE	
KAREN BURTON	29	R:SAN DIEGO 89 7:12.08	MARGARET HAIR	35	SAM BLYTHE	
KIM ARATA	31	ROBERTA TURCOTTE			SBAY	1:41.48
PSP	5:18.39	ALICIA COLEMAN	160+		CHUCK PONTHER	28
LYNDA ANDERSON	30	ADRIENNE PIPES	R:INDUSTRY HILLS B7 11:45.47		BRIAN KELCA	31
TRACY MCFARLANE	25	DIANA SILVA	JANET BUCHANAN		SCOTT SOUTHRON	27
VANESSA RICHEY	25	O*H*I*O MASTERS 9:07.53	KAREN RUBIN		MICHAEL CASEY	26
LORI WESTRA	25	RUTH WUNDERLICH 73	SYLVIA GLENN		ROSE	1:47.22
SBAY	5:28.45	BETTY KAKOS 60	JANET ROYER		ALBERT BERGEN	24
ANN T.FINLEY	29	LUISE EASTON 52	HEARTLAND S A M 13:01.44		DANNY BANKS	28
ELISABETH SILVER	31	MARIANNE BROGAN 56	SUE TOLMAN 30		HOMAS PODMAJERSKY	28
AMY NELSON	24		JOY KLEBER 35		JIM BERGEN	23
SARAH PAGE	27		PATTI EMERICK 37		CRAW	1:47.76
		280+	ELFRIEDE LEHTO 58		STEVE HECK	42
120+		R:ST. LOUIS 91 8:49.98			ROBERT CAMBIAS	23
R:O*H*I*O* 91 5:08.59		ANNALOU CARRIER	200+		MIKE FALATI	23
JOANNE BOWSER		DORIS PETERS	R:SAN DIEGO 90 12:44.99		WADE RIDDICK	22
JENNIFER UEBELE		CAROL TAYLOR	GINI BURNS		AFAM	1:49.08
ANN SCHWERZLER		EDITH HENDRY	BARBARA DUNBAR		ALAN ARATA	30
ROBIN KALMAN		ST. LOUIS 8:49.98	ADRIENNE PIPES		BRIAN CANINO	31
O*H*I*O MASTERS 5:08.59		ANNALOU CARRIER 70	DIANA SILVA		JEFF FALEY	26
JOANNE BOWSER 37		DORIS PETERS 68	HEARTLAND S A M 14:27.68		DAVID LAZERSON	28
JENNIFER UEBELE 26		CAROL TAYLOR 62	CAROL SING 49		ES	1:49.82
ANN SCHWERTZLER 25		EDITH HENDRY 80	NANCY REED 64		BILL SALAUN	31
ROBIN KALMAN 32		*****	CHRISTINE BIBY 43		TYSON SALAUN	24
MINNESOTA 5:35.75		RELAYS: WOMEN 800 M. FREE	JUDY TILARO 56		CHANSE CHARRIER	25
VICKY SANDBERG 34		*****	HEARTLAND S A M 16:08.04		GLEN HANSEN	26
KIM ROSENWINKEL 29		76 +	MARILYN RAMEY 50		GREENVILLE	1:51.34
S.LEE-SHERIDAN 39		R:SPACE COAST 87 10:55.74	BARBARA THOMPSON 45		RICHARD EISENBR	30
SUE KURAK 32		LISA SIDOR	CARLENE HACKER 51		PAUL SCHMID	28
HSAM 5:40.18		CHERIE HUTMAN	ANN MARTIN 62		MARK BERTZ	31
VICKY DAVIDSON 26		SUE MATSCHNER			DAVID YACU	27
LISA GOOLEY 37		ROBERTA MILANDER	240+		EMPIRE STATE	1:52.65
JONI SAITO 27		NO RELAY TEAMS	R:SAN DIEGO 90 13:38.17		SCOTT HIROSE	25
SHERYL WALKER 35		100+	VIOLA THOMPSON		PATRICK RIORDAN	29
IEM 6:26.11		R:AIR FORCE 91 9:48.14	DIANA SILVA		CHRIS BAUER	30
MARGARET HAIR 36		KIMBERLY ARATA	BOBBI TURCOTTE		FRANK BRIGULIO	32
MAIDY KRESS 40		KAREN BURTON	BARBARA DUNBAR		OJAI	1:53.20
CAROLYN KENT 46		ANNA PLANTIER	NO RELAY TEAMS		MARC WHITMAN	33
WHITNEY PARSONS 25		JUDY HUPP	280+		QUANAH T RIDENOUR	21
		AFAM 9:48.14	R:ST. LOUIS 91 15:49.09		JESSE A RIDENOUR	20
160+		KIMBERLY ARATA 31	CAROL TAYLOR		HOWARD RADDING	35
R:ESCONDIDO 90 6:57.48		ANNA PLANTIER 28	DORIS PETERS		ECSC	2:00.02
SYLVIA BRESNIK		KAREN BURTON 29	EDITH HENDRY		CHARLIE MATTHEWS	26
DEBORAH LYON		JUDY HUPP 27	ANNALOU CARRIER		ROBERT GONZALES	29
TERRI KING		SBAY 10:59.42	ST.LOUIS 15:49.09		MICHAEL MORSER	26
BONNIE NOLAN		ELISABETH SILVER 31	CAROL TAYLOR 62		STEPHEN PECK	35
HSAM 8:50.14		SARAH PAGE 27	DORIS PETERS 68		BOLT	2:00.84
BARBARA THOMPSON 45		DEDE MOORE 31	EDITH HENDRY 80		WILLIAM SCHWARTZ	23
GAYLA BROWN 41		SUSAN STOHRER 28	ANHALOU CARRIER 70		BLAINE PEARSALL	39
CHRISTINE BIBY 44			*****		LJ SCHMITT	23
CECILY MCNEIL 46			RELAYS: M E N 200 M. FREE		BRIAN MILLER	30
		120+	*****			
200+		R:MISSION BAY 88 10:37.16	76 +		120+	
R:SAN DIEGO 90 6:16.07		LIL HANEMAN	R:AIR FORCE 91 1:49.48		R:GCWP 89 1:38.93	
SUSAN RITTENHOUSE		ANNE LABORIT	DIRK BOUMA		SCOTT BECKER	
ADRIENNE PIPES		ANITA ALLEN	KIRK CLEAR		BRIAN GOODELL	
BARBARA DUNBAR		HOLLY CAMPBELL	THOMAS KOMP		JAY HERSEY	
JANET LAMOTT		ST. LOUIS 10:15.91NV	WES HALLMAN		LYLE NALLI	
HSAM 7:17.17		JEANNE MESSINA 31	AFAM 1:49.48		SBAY	1:48.01
MAUREEN MARKS 38		GINA DELORME 32	DIRK BOUMA 23		CHRIS LANSBERG	37
MARILYN RAMEY 51		LESLIE COOPER 31	KIRK CLEAR 24		GORDON LINDEN	30
CAROL SING 50		CINDY ECKENRODE 29	THOMAS KOMP 22		BOB CURRIE	38
NANCY REED 64		MINNESOTA 11:11.81	WES HALLMAN 25		DAVID BIRD	28
O*H*I*O MASTERS 7:18.76		VICKY SANDBERG 34			GEORGIA	1:48.80
DORIS LOCKER 47		KIM ROSENWINKEL 29			RIC JOHNSON	35
LILLY KRON 59		SUE KURAK 32			REED FARRIS	36
ROBERTA BOBERSKI 51		JUDI ERICKSON 26			TOM NORTHCUTT	26
MAUREEN KOSS 48		IEM 12:35.30			THOMAS PIACENTI	34
		MARCIE HANNA 25				
		CAROLYN KENT 45				

TOP TEN SHORT COURSE METERS

MINNESOTA	1:50.55	BILL EARLEY	54	WILLIAM PHILLIPS		120+	
BILL FARRELL	32	BILL BEHUN	39	RALEIGH AREA	2:28.84	R:GCWP	89 1:50.73
MARK PANGER	34	CHAPEL HILL	1:58.05	DON GREETHAM	69	BRIAN GOODELL	
NATHAN LEIGH	35	THOMAS BOYD	35	C.LEBOURGEOIS	57	SCOTT BECKER	
JOHN MCCALL	40	C.VAN DER HORST	39	RUSSELL PROCTOR	67	JAY HERSEY	
HSAM	1:51.43	TERRENCE LEE	41	CHET GOSSTYLA	71	LYLE NALLI	
STUART LONDON	25	PEIRRE MORRELL	49	BOLT	2:30.40	LAKESIDE MASTER	2:01.05
JEFF REILLY	30	ROSE	1:58.89	BOB REIMERS	48	W.TINGLEY	41
DAVID SAPPER	37	BOB COALE	51	N HEDRICK	68	KIRK BUESE	31
CHARLES HARTJE	32	STEPHEN SAYLOR	49	RICHARD DANIEL	65	PETER EDWARDS	30
CHAPEL HILL	1:53.21	JOHN HYATT	48	DICK BOWER	61	SAM A BLYTHE	32
JOHN KLEIN	33	FRED SCHLICHER	43	ST. LOUIS	2:30.67	WH20	2:02.20
DAN STEVENS	28	PARRIS ISLAND	1:59.12	WILLIAM CANNON	61	MARC L NEIGHBOR	29
GLEN LEWIS	30	PAUL KENT	36	DON SERY	67	JON F BAUER	39
BILL DAVIS	33	SCOTT GRABER	46	E. ROSENHAUER	60	ROBERT A FUENTES	27
EMPIRE STATE	1:55.44	DAVID PAINTER	53	PAUL BROCKSMITH	59	TOM REUDY	37
BILL MCELHENNY	34	JOHN ROCCO	27			AFAM	2:02.53
JEFF BARANY	23	GEORGIA	2:02.71	280+		CLAUDE WISE	40
NATHANIEL WARING	27	JOHN QUANRUD	45	R:OREGON	90 2:13.84	JEFF FALEY	26
DOUG JENSEN	36	BRETT SORGE	44	EARL WALTER		ALAN ARATA	30
GREATER INDIANA	1:56.04	JOHN ZEIGLER	45	FORBES MACK		BRIAN CANINO	31
TODD R HOLDER	26	HAM GADD	44	GERALD HUESTIS		LYTAL AQUATIC	2:03.78
RICHARD A SIDNER	42	WISCONSIN	2:04.70	ANDREW HOLDEN		GORDON ANDREWS	31
M.L SULLIVAN	37	D. FARRELL	36	LBM	2:34.54	JOHN BROSIUS	32
CHARLES B LEE	47	J. MINIACHI	40	WILLIAM DEMASTUS	66	MARK BRAUN	34
EMPIRE STATE	1:59.47	DAVID POLACHEK	47	ED ALLEN JR	76	KENNETH COOK	30
TIMOTHY WHITESIDE	38	TOM MEEHAN	44	ERNEST VANHORN	75	ALH	2:08.22
C.QUARITIUS	36			EMILE ACHEE	74	TYRONE BROWN	27
MICHAEL TRACY	38	200+		*****		PIERRE SMITH	36
BUCK BROKER	35	R:LOS ALTOS	89 1:48.34	RELAYS: M E N 200 M. MEDLEY		FABIO ASTUDILLO	39
ANDERSON	2:00.23	ROBERT PROEBSTING		*****		PAUL MARBLE	27
TOM DRAWDY	30	EDWARD CAZALET		76 +		HSAM	2:08.57
MARK MADDEN	30	JOHN RICHARDS		R:PACIFIC NW	90 2:00.40	CHARLES HARTJE	32
STAN FRIED	41	DICK THOMAS		FRANK WARNER		MIKE TOPE	36
GAVIN BLACK	23	SDSM	2:01.22	GREG HARRISON		JEFF REILLY	30
IEM	2:07.80	KEN KIMBALL	61	STEVE FREEBORN		GEORGE DALL	36
STEVE OMI	34	BILL EARLEY	55	STEVE SCHMIDT		ANDERSON	2:09.75
RICH BRESHEARS	25	JOHN GOODE	58	AFAM	2:04.00	DAVID HORTON	29
BILL TRAVIS	43	RICK KOZLOWSKI	39	DIRK BOUMA	23	STAN FRIED	41
MIKE LITTLE	35	OJAI	2:12.39	WES HALLMAN	25	TOM DRAWDY	30
		JAMES E BARRETT	43	KIRK CLEAR	24	GAVIN BLACK	23
160+		HARRY J DELATRE	45	THOMAS KOMP	24	GREATER INDIANA	2:09.95
R:SWAM	91 1:41.93	DARRELL L WILLEY	57			M.L SULLIVAN	37
CHRIS MACCURDY		JACK SPRACKLIN	61	100+		TODD R HOLDER	26
RIC NESBIT		GEORGIA	2:12.91	R:ROSENBERG	88 1:52.59	RICHARD A SIDNER	42
JERRY HEIDENREICH		WILLIAM LOTZ	42	CLIFFORD SPENCER		MARK CLEVENER	31
BRYAN AUSTIN		BILL ROBERTSON	55	JOSEPH GREENWELL		SBAY	2:13.15
SWAM	1:41.93	ELMER SCHNITZER	63	JOHN ANDARY		ROBERT EBERWINE	31
JERRY HEIDENREICH	41	JACK MITCHELL	64	MICHAEL DUSWALT		ROBERT CURRIE	38
RICHARD NESBIT	46	HEARTLAND S A M	2:14.28	CRAW	2:04.94	SCOTT SOUTHRON	27
CHRIS MACCURDY	39	DAVE SZUCH	48	STEVE HECK	42	STEVEN KOVARY	49
BRYAN AUSTIN	35	RON WILLIAMSON	52	ROBERT CAMBIAS	23	D.C. AQUATICS	2:13.54
ES	1:50.09	LARRY SMITH	45	MIKE FALATI	23	RICH MERRITT	44
THOMAS KEHOE	57	EUGENE SAPPER	61	WADE RIDDICK	22	SCOTT GAMMANS	27
ED NANARTOWICH	38	IEM	2:38.75	ROSE	2:06.75	DAVID CORAY	28
DAVE MINER	43	SID ROSEN	70	ALBERT BERGEN	24	DREW FITZMORRIS	31
BRYANT LUM	30	J.GOSPODNETICH	47	DANNY BANKS	28		
HSAM	1:53.70	GARRY HARN	56	TOM PODMAJERSKY	28	160+	
DOUGLAS SELBY	46	JOHN SAHLIN	40	JAY LOPEZ	31	R:SWAM	91 1:55.51
LEE MENCH	39	GREATER INDIANA	3:01.77	BOLT	2:13.85	CHRIS MACCURDY	
JERRY O'MARA	44	IRVING M HEATH	73	LJ SCHMITT	23	RIC NESBIT	
DAVE BUTLER	44	AL EBBINGHAUS	67	BRIAN MILLER	30	JERRY HEIDENREICH	
CHARLESTON	1:56.54	PHIL WHEELER	66	WILLIAM SCHWARTZ	23	BRYAN AUSTIN	
HUGH WILDER	44	DONALD REID	24	GLEN BODET	30	SWAM	1:55.51
PETER COMBES	50			LBA	2:23.41	CHRIS MACCURDY	39
DAVID PARLER	35	240+		STEVEN A MYERS	23	RICHARD NESBIT	46
GEORGE FISETTE	50	R:SAN DIEGO	88 2:07.70	STEVEN W RICHARDS	26	JERRY HEIDENREICH	41
SAN DIEGO SWIM	1:56.96	ANDREW HOLDEN		RICHARD A HADDAD	25	BRYAN AUSTIN	36
BILL STALLCUP	44	FRED WADSWORTH		JACQUES R DRAPEAU	34	ES	2:06.16
JOHN MILLER	41	GORDON GILLIN				BRYANT LUM	30

TOP TEN SHORT COURSE METERS

BILL SALAUN	31	GREATER INDIANA	3:47.68	JEFF FALEY	26		
DAVE MINER	43	IRVING M HEATH	73	EMPIRE STATE	4:10.46	200+	
THOMAS KEHOE	57	AL EBBINGHAUS	67	NATHANIEL WARING	27	R: OREGON	91 4:30.16
CHARLESTON	2:07.01	DONALD REID	24	JEFF BARANY	23	ROBERT SMITH	
HUGH WILDER	44	PHIL WHEELER	66	PETER MARCUS	35	ERIC GUEST	
DAVID PARLER	35			STEVE FISHER	29	TOM FANNING	
PETER COMBES	50	240+		ROSE	4:32.40	RICHARD BOYD	
GEORGE FISETTE	50	R: GREATER INDIANA B9	2:21.09	ALBERT BERGEN	24	OREGON	4:30.16
ROSE	2:11.76	JOHN DILLEY		JAY LOPEZ	31	ROBERT SMITH	47
STEPHEN STEDRY	40	DOUGLAS SCOTT		DANNY BANKS	28	ERIC GUEST	61
PAUL SHANE	45	MEL GOLDSTEIN		TOM PODMAJERSKY	28	TOM FANNING	51
FRED SCHLICHER	43	DICK WEBBER		HSAM	4:37.81	RICHARD BOYD	47
BRIAN MURPHY	40	ST. LOUIS	2:37.09	RANDALL EICKHOFF	26	SOSM	4:49.00
HSAM	2:13.51	CARL CLASSEN	69	JEFF REILLY	30	GORDON GILLIN	61
DOUGLAS SELBY	46	GARY JEWELL	41	CESAR ROMERO	31	BILL BEHUN	40
JERRY O'MARA	44	ART KELLEY	65	CHARLES HARTJE	32	BILL MOSELEY	53
DAVID SAPPER	37	ROBERT BLAKE	66			BILL EARLEY	55
LEE MENCH	39	BOLT	2:46.52	120+		HSAM	5:17.64
ST. LOUIS	2:13.90	BOB REIMERS	48	R: DAVIS	90 3:55.05	GENE SAPPER	62
HANDY SCHRUFF	41	DICK BOWER	61	HANS KONRAD		DAVID SZUCH	48
LEO LETENDRE	38	RICHARD DANIEL	65	MIKE COLLINS		RONALD CATTON	47
BRUCE COONAN	44	N HEDRICK	68	ANDREW MCPHERSON		RON WILLIAMSON	53
RICHARD YAWITZ	37	ST. LOUIS	2:48.73	PAUL SCHROEDER			
CRAW	2:20.30	DON SERY	67	SBAY	3:57.96	240+	
ELVIN CHOONG	59	E. ROSENHAURER	60	FRANK BIRD	28	R: S CALIF AQ	89 4:51.11
SAM STREETER	29	WILLIAM CANNON	61	JACK WEIXEL	32	DON WILSON	
RALPH MARK	33	PAUL BROCKSMITH	59	DAVID BIRD	28	BOB MERRICK	
BOB KNIGHT	54	IEM	2:53.79	CHRIS LANSBERG	37	GEORGE BRINTON	
GREATER INDIANA	2:26.55	WILL DOLPHIN	65	HSAM	4:30.34	RICHARD ROUSE	
CHARLES B LEE	47	BILL DAVIES	54	JIM BOLLMAN	38	ST. LOUIS	5:45.20
DOUGLAS D CHURCH	47	WAYNE WILSON	51	MIKE SAPPER	35	WILLIAM CANNON	61
PAUL HOWELL	47	BILL ODMAN	71	STEVEN SAPPER	33	DON SERY	67
STEVE CROUSE	35			GEORGE DALL	36	E. ROSENHAURER	60
PARRIS ISLAND	2:28.84	280+				PAUL BROCKSMITH	59
JOHN ROCCO	27	R: OREGON	90 2:36.92	160+			
DAVID PAINTER	53	EARL WALTER		R: ST. LOUIS	91 4:13.87	280+	
SCOTT GRABER	46	FORBES MACK		GARY JEWELL		R: OREGON	91 5:27.45
GERALD CUMMINGS	38	ANDREW HOLDEN		RICHARD YAWITZ		EARL WALTER	
CHapel HILL	2:30.66	GERALD HUESTIS		RANDY SCHRUPP		GIL YOUNG	
SCOTT SAPPENFIELD	39	EMPIRE STATE	2:55.75	BRUCE COONAN		ANDREW HOLDEN	
GLEN LEWIS	30	BENEDICT REYNOLDS	66	ST. LOUIS	4:13.87	FORBES MACK	
PEIRRE MORRELL	49	JAMES FORBES	65	GARY JEWELL	41	OREGON	5:27.45
JERRY MARTIN	43	WILLIAM BRENNAN	69	RICHARD YAWITZ	37	EARL WALTER	69
		GERSON SOBEL	81	RANDY SCHRUFF	41	GILBERT YOUNG	68
200+		LBM	3:22.52	BRUCE COONAN	44	FORBES MACK	72
R: LOS ALTOS	89 2:02.44	LIONEL PEREIRA	81	HSAM	4:15.42	ANDREW HOLDEN	71
DICK THOMAS		JOHN GLENN	81	LEE MENCH	39	SAN MATEO	5:54.04
THOMAS BOAK		WILLIAM DEMASTUS	66	JERRY O'MARA	44	ED MORAN	73
ROBERT PROEBSTING		EMILE ACHEE	64	DOUGLAS SELBY	46	ROBERT SCHULZE	68
JOHN RICHARDS		*****		DAVID SAPPER	37	RAY TAFT	72
O'H*I'O MASTERS	2:24.99	RELAYS: M E N 400 M. FREE		ROSE	4:31.87	FRED TAIOLI	70
PIERCE BRAY	67	*****		STEPHEN SAYLOR	49	*****	
DAN PER-LEE	48	76 +		STEPHEN STEDRY	40	RELAYS: M E N 400 M. MEDLEY	
RUDY VAZMINA	41	R: DAVIS	90 3:53.01	JOHN HYATT	48	*****	
RICHARD BAUSCHARD	47	MIKE HUARD		GARY LANGENDOEN	46	76 +	
SOSM	2:34.18	VINCENT LANE		SAN MATEO	4:33.58	R: DAVIS	90 4:56.13
JOHN GOODE	58	SCOTT ERBA		BILL STEUART	55	DAN BURGER	
BILL EARLEY	55	TODD BAILY		LARRY RADETICH	43	GADI REVIVO	
GORDON GILLIN	61	NO RELAY TEAMS		JOHN WALKER	35	FRED RAMSING	
KEN KIMBALL	61			JAMES KELLY	27	VINCENT LANE	
AFAM	2:52.33	100+		NORTH OHIO MAST	5:03.94	AFAM	4:57.18
PETER HUISVELD JR	69	R: LONGHORN	90 3:55.59	ROBERT BURNS	39	THOMAS KOMP	24
DAVID LAZERSON	28	CARL DUFFY		THOMAS MOYER	43	DIRK BOUMA	23
PETER HUISVELD III	40	MICHAEL GIRDO		LAWRENCE THOMPSON	61	JEFF FALEY	26
JURGEN SCHMIDT	68	MARK STOHRER		DONALD KROEGER	47	KIRK CLEAR	24
IEM	2:54.08	ANDERS RASMUSSEN		SBAY	5:28.85		
DAVE WEEKS	42	AFAM	4:03.24	TOM O'HERN	36	100+	
DAVE DABOLL	54	ALAN ARATA	30	GREG STEVENSON	35	R: SOUTH BAY	91 4:21.93
GARRY HARN	55	BRIAN CANINO	31	CHRIS FROGLEY	48	SCOTT SOUTHRON	
ED BREITENBACH	50	KIRK CLEAR	24	JAY BURBANK	46	BRIAN KELCA	

TOP TEN SHORT COURSE METERS

CHUCK PONTHER		DONALD KROEGER	47	DENNIS LOBMEYER		STEVEN SAPPER	33
MICHAEL CASEY				NO RELAY TEAMS		MIKE SAPPER	35
SBAY	4:21.93	200+				GENE SAPPER	62
SCOTT SOUTHRON	27	R: OREGON	91 5:11.59	100+		IEM	11:11.65
BRIAN KELCA	31	ROBERT SMITH		R: SOUTH BAY	91 8:32.67	WAYNE WILSON	51
CHUCK PONTHER	28	TOM FANNING		FRANK BIRD		BOB OLSON	49
MICHAEL CASEY	26	RICHARD BOYD		ROBERT EBERWINE		MIKE STRICKER	43
EMPIRE STATE	4:56.90	ERIC GUEST		SCOTT SOUTHRON		JOE MCCONAHEY	32
FRANK BRIGULIO	32	OREGON	5:11.59	BRIAN KELCA		IEM	13:33.94
CHRIS BAUER	30	ROBERT SMITH	47	SBAY	8:32.67	C. CHRISTOFFERSEN	40
SCOTT HIROSE	25	TOM FANNING	51	FRANK BIRD	28	GARY RING	45
PATRICK RIORDAN	29	RICHARD BOYD	47	ROBERT EBERWINE	31	MIKE SERPINAS	40
		ERIC GUEST	61	SCOTT SOUTHRON	27	TERRY SODERBURG	36
		SWOM	5:32.61	BRIAN KELCA	31		
120+		RICHARD SMITH	45	ROSE	9:35.95	200+	
R: MINNESOTA	91 4:25.61	JACK WOOLIDGE	57	TOM PODMAJERSKY	28	R: SAN DIEGO	91 10:45.71
PAUL WINDRATH		ROBERT BLOEBAUM	64	DANNY BANKS	28	STEVE MOSELEY	
JOHN EVERS		ROBERT SIMONS	42	JAY LOPEZ	31	KEN KIMBALL	
JOHN MCCALL		SWOM	6:24.31	ALBERT BERGEN	24	BILL BEHUN	
BOB DAVIDSON		ROBERT WILLIAMS	52			BILL EARLEY	
MINNESOTA	4:25.61	KENNETH HEUCK	46	120+		SDSM	10:45.71
PAUL WINDRATH	37	GREGORY SCHRAND	48	R: HEARTLAND	91 8:41.77	STEVE MOSELEY	53
JOHN EVERS	37	RICHARD CHISHOLM	56	CHARLES HARTJE		BILL BEHUN	40
JOHN MCCALL	40	HSAM	6:33.27	JEFF REILLY		KEN KIMBALL	61
BOB DAVIDSON	43	RONALD CATTON	47	LEE MENCH		BILL EARLEY	55
SBAY	4:57.69	LARRY SMITH	45	RANDALL EICKHOFF		ST. LOUIS	10:57.55
GORDON LINDEEN	30	RON WILLIAMSON	53	HSAM	8:41.77	WILLIAM CANNON	61
DAVID BIRD	28	RUDOLPH SAPPER	59	CHARLES HARTJE	32	GARY JEWELL	41
CHRIS LANSBERG	37			JEFF REILLY	30	LEO LETENDRE	38
BOB CURRIE	38			LEE MENCH	39	ROBERT BLAKE	66
HSAM	5:22.52	240+		RANDALL EICKHOFF	26	HEARTLAND S A M	12:27.46
CHARLES HARTJE	32	R: S CAL AQUATIC	90 5:46.32	AFAM	9:00.30	EUGENE SAPPER	61
MIKE TOPE	36	LEE ARTH		ALAN ARATA	30	LARRY SMITH	45
JEFF REILLY	30	BEN FRANKLIN		PETER HUISVELDIII	40	RON WILLIAMSON	52
CESAR ROMERO	31	FRANK PIEMME		BRIAN CANINO	31	DAVID BUTLER	43
EMPIRE STATE	5:33.62	JURGEN SCHMIDT		DIRK BOUMA	23	IEM	14:27.68
C. QUARITIUS	36	ST. LOUIS	5:54.96	EMPIRE STATE	10:11.33	JIM MCBRIDE	51
TIMOTHY WHITESIDE	38	CARL CLASSEN	69	PATRICK RIORDAN	29	HARLAN DOUGLASS	53
BUCK BROKER	35	GARY JEWELL	41	C. QUARITIUS	36	BILL OVERHOLSER	52
MICHAEL TRACY	38	ART KELLEY	65	TIMOTHY WHITESIDE	38	BILL DAVIES	54
ROSE	6:03.99	ROBERT BLAKE	66	BUCK BROKER	35	IEM	15:08.74
MICHAEL RAVEN	41	ST. LOUIS	6:45.05	IEM	11:14.19	GARRY HARN	55
JAY LOPEZ	31	DON SERY	67	STEVE OMI	33	DAVE DABOLL	54
WILLIAM HEWLETT	37	E. ROSENHAUER	60	JEM HANNA	26	DAVE WEEKS	42
JOHN MONTOYA	40	WILLIAM CANNON	61	STEVE OLDEN	41	SID ROSEN	70
		PAUL BROCKSMITH	59	MIKE LITTLE	35		
160+				IEM	13:39.50	240+	
R: S CALIF AQ	89 4:29.41	280+		KEN ROSS	31	R: HOLMES	89 12:18.65
CLAY EVANS		R: OREGON	91 6:25.20	CHUCK HORMEL	45	JACK BEATTIE	
PAUL HENNE		EARL WALTER		DAVE WARD	43	LORING HOLMES	
FRANK WASKO		BOB MORRISON		ED FIGEROA	39	JIM TAYLOR	
JERRY DUNLAP		ANDREW HOLDEN				HARWELL MOSLEY	
HEARTLAND S A M	5:00.27	FORBES MACK		160+		NO RELAY TEAMS	
DOUGLAS SELBY	45	OREGON	6:25.20	R: HEARTLAND	89 9:17.66	280+	
TERRY THOMPSON	44	EARL WALTER	69	LEE MENCH		R: SPACE COAST	87 18:54.13
LEE MENCH	38	ROBERT MORRISON	69	WILLIAM LETTIN		GUS SPOHN	
DAVID SAPPER	36	ANDREW HOLDEN	71	JERRY O'MARA		ERNIE OGILVIE	
ROSE	5:19.73	FORBES MACK	72	DOUGLAS SELBY		WALTER CROSSLEY	
JOHN HYATT	48	SAN MATEO	6:58.89	MINNESOTA	9:17.69	RICHARD FLETCHER	
BOB COALE	51	ED MORAN	73	PAUL WINDRATH	37	NO RELAY TEAMS	
PAUL LOFTHOUSE	44	ROBERT SCHULZE	68	BILL FARRELL	32	*****	
FRED SCHLICHER	43	RAY TAFT	72	PETE MAGEE	54	RELAYS: MIXED 200 M. FREE	
IEM	6:04.48	FRED TAIOLI	70	BOB DAVIDSON	43	*****	
JERRY SCHEIBNER	39	*****		ROSE	9:52.58	76 +	
FRANK HAMILTON	52	RELAYS: M E N 800 M. FREE		STEPHEN SAYLOR	49	R: METAIRIE	89 2:03.73
BOB HENAGER	41	*****		STEPHEN STEDRY	40	MICHAEL BRADY	
MIKE SMITH	42	76 +		BOB COALE	51	SHELLY DUDZIC	
NORTH OHIO MAST	6:32.66	R: SPACE COAST	87 11:48.18	GARY LANGENDOEN	46	ANDREA MILNER	
ROBERT BURNS	39	DON RAY		HSAM	10:14.90	LEON HEBERT	
THOMAS MOYER	43	SCOTT MAYNES		DAVID SAPPER	37		
LAWRENCE THOMPSON	61	SCOTT BELL					

TOP TEN SHORT COURSE METERS

AFAM	2:12.43	JIM HOWLEY	30	HARRY MCGEE	42	CHARLES DRIEHORST	56
DIRK BOUMA	23	ARLETTE GRDESIC	27	ALMADEN SWIM	2:01.32	DONALD KROEGER	47
THOMAS KOMP	22			JEFF NEUROTH	44	BEVERLY MYERS	56
SHERRY CLEAR	24	120+		MARILYN BLISS	45	LBM	2:39.10
ALEXANDRIA FABBRO	27	R:TEXAS	89 1:48.60	MANDY MCCLELLAN	36	WILLIAM DEMASTUS	66
BOLT	2:20.25	LESLIE OSBORNE		TOM SAVASO	36	SUZ ARTUKOVICH	35
LJ SCHMITT	23	LARRY WOOD		NEW ENGLAND	2:04.32	MAURINE KORNFELD	69
CINDY ELLZEY	32	GAIL MEAKINS		SUE TENDY	42	EMILE ACHEE	64
CHRISTINE SCHMITT	20	MEL NASH		EILEEN CRAFFEY	40		
WILLIAM SCHWARTZ	23	AFAM	1:49.40	RON BOUCHER	37	240+	
		KIMBERLY ARATA	31	DAN ROGACKI	44	R:LOS ALTOS	91 2:17.29
100+		ALAN ARATA	30	TRIAD MASTERS	2:08.43	JOHN RICHARDS	
R:ALASKA	89 1:47.91	JUDY HUPP	27	FRANK STARLING	48	BERNA BENNETT	
L.HASSELQUIST		CLAUDE WISE	40	JIM BURWELL	45	JAY CRADDOCK	
BRUCE JONES		SBAY	1:51.61	KAREN BUNCH	34	CAROLYN BOAK	
JANE PARIS		BETH SILVER	31	MARY DOWLEN	35	LOS ALTOS	2:17.29
TOM ROTH		ROBERT EBERWINE	31	AFAM	2:09.55	JOHN RICHARDS	69
AFAM	1:52.07	BRIAN KELCA	31	BRIAN CANINO	31	BERNA BENNETT	64
ANNA PLANTIER	28	DEDE MOORE	31	JURGEN SCHMIDT	68	JAY CRADDOCK	70
KAREN BURTON	29	IHAC	2:00.17	KELLY LAZERSON	31	CAROLYN BOAK	46
WES HALLMAN	25	RICK GARCIA	28	KAMERA MURALT	33	NEW ENGLAND	2:27.47
KIRK CLEAR	24	DEBORAH MEBEL	28	LINCOLN MASTERS	2:11.56	TOM LYNDON	60
NEW ENGLAND	1:52.15	JANICE LOPEZ	31	MARY POHLMANN	46	PAUL TSONGAS	50
STUART CROMARTY	27	TOM COURTNEY	41	LARRY A GOOD	57	CLARA WALKER	65
MATT CONNERY	27	PARRIS ISLAND	2:00.32	JENNIFER MORSE	22	BILLIE BURRILL	70
LYNNE PECKENHAM	22	PAM DRAFTS	34	JOHN HOBSON	37	RALEIGH AREA	2:28.79
KRISTEN HENSON	25	PAUL KENT	36	HSAM	2:17.33	CEIL BLACKWELL	50
EMPIRE STATE	1:53.13	JULIE WARNER	29	JIM BOLLMAN	38	BERNIECE GREETHAM	64
DEANNA COLACITO	23	JOHN ROCCO	27	DAVID SAPPER	37	CHET GOSSTYLA	71
MONICA LEE	24	GREENVILLE	2:01.15	SHERYL DASCO	41	C.LEBOURGEOIS	57
STEVE FISHER	29	SCOTT DUNN	30	CHRISTINE BIBY	44	SAN DIEGO SWIM	2:38.27
BRENDAN CURLEY	24	KATIE MCNAMARA	36	PARRIS ISLAND	2:20.21	DIANA SILVA	69
SBAY	1:54.51	DAVID YACU	27	LAURA ACHURCH	29	FRED WADSWORTH	62
AMY NELSON	24	BETH SCHEIMANN	29	SCOTT GRABER	46	ALICIA COLEMAN	65
SCOTT SOUTHON	27	AMADOR VALLEY	2:03.31	VICTORIA TRACY	35	GORDON GILLIN	60
CHUCK PONTHER	28	ANN GRIFFITH	25	DAVID PAINTER	53	NEW ENGLAND	2:42.06
SUSAN STOHRER	28	RUTH EBISUZAKI	28	CHAPEL HILL	2:22.13	J.K. EDWARDS	68
PSP	1:54.60	KEN SKULINA	33	PEIRRE MORRELL	49	DONNA EDELBAUM	58
JAMES LORIMER JR	22	TOM SCHINDLER	35	C.VAN DER HORST	39	MILTON BRIER	63
VANESSA RICHEY	25	PSP	2:05.57	JAN GWYER	41	SUSAN BLAKE	53
TRACY MCFARLANE	25	DAVID TANG	40	LAURA ATKINSON	43	HSAM	2:42.17
JAMES SULLIVAN	38	SUSAN ZAGAR	30	BOLT	2:27.86	GENE SAPPER	62
ST. LOUIS	1:59.22	LYNDA ANDERSON	30	BOB REIMERS	48	RUDOLPH SAPPER	59
LESLIE COOPER	31	LARRY CAPERELLA	32	KATHY VAN WIE	45	NANCY REED	64
C. ECKENRODE	29	TRIAD MASTERS	2:05.72	VICKI BUCCINO	45	JUDY TILARO	56
MIKE LAMPMAN	26	TOM ATKINSON	42	DICK BOWER	61	BOLT	3:14.05
DAVID CRAMER	32	DAVID FLOYD	31			N HEDRICK	68
HSAM	2:01.37	KANDEE SPAIN	27	200+		ROSEMARY KARIKER	72
JEFF REILLY	30	JILL STEPHENSON	27	R:LINCOLN	89 1:57.25	CLAIRE ROACH	64
RANDALL EICKHOFF	26	AMADOR VALLEY	2:06.66	PAUL HUTINGER		RICHARD DANIEL	65
JONI SAITO	27	KATHY GABEL	36	IRENE DAVID		NSM	3:30.40
BECKY JACKMAN	28	JONI ATKINSON	35	COLLEEN MALMEN		H.HERLEIKSON	69
PSP B	2:03.21	MIKE NAPIER	40	RAY PADOVAN		JOAN SLASON	65
BRUCE MUSASHI	33	JOHN BOWER	32	SAN DIEGO SWIM	2:13.42	BARBARA OWENS	62
TRACEY MC FARLANE	25	SBYW	2:07.34	BILL EARLEY	54	ALFRED BETANCOURT	69
JAMES LORIMER	22	BOB BEST	59	SUSAN RITTENHOUSE	53		
SUSAN ZAGAR	30	CYNTHIA OWENS	22	BETSY JORDAN	54	280+	
CHAPEL HILL	2:04.81	JULIA HENDRIX	33	JOHN MILLER	41	R:CONNECTICUT	88 2:38.80
J.EDMUNDSON	27	JOEL ERICKSON	35	ST. PETE	2:21.01	JERRY JARROLD	
CLARE MOREY	29			HARRY PIPER	57	DOROTHY DONNELLY	
JOSEPH PENTA	20	160+		ELAINE BROMWICH	48	RUTH BILLARD	
STEVE SPRAGUE	37	R:GREATER INDIANAB9	1:50.55	JACQUELYN PIPER	54	GUS LANGNER	
SBSC	2:07.47	BILL VICKERY		ART HALTTUNEN	41	ARIZONA MASTERS	3:45.84
ROY L MCLAUGHLIN	25	SHARON WISE		HSAM	2:28.09	ROSE STEWARD	73
KATHY R LIEBERMAN	27	SALLY HASBROOK		DAVID SZUCH	48	JACK MATTINGLY	77
JIM R HOWLEY	30	BILL WOOD		RON WILLIAMSON	53	MARGARET NAGLE	74
ARLETTE GRDESIC	27	SBAY	1:59.71	CAROL SING	50	JACK SPIKES	67
SBSC A	2:07.47	PATRICIA BAXTED	54	MARILYN RAMEY	51	CORAL SPRINGS	3:53.35
ROY MC LAUGHLIN	27	NADINE THOMPSON	32	NOMS	2:32.29	BERNARD BERGMAN	74
KATHY LIEBERMAN	27	CHRIS FROGLEY	48	FREDERICKA RAPP	47	RICHARD KANE	80

TOP TEN SHORT COURSE METERS

MURIEL BERGMAN	73	HSAM	2:13.24	RIC JOHNSON	35	BOB REIMERS	48
IRMA JANSSEN	63	VICKY DAVIDSON	26	LISA WATSON	37	FRANCES FILKINS	43
320+		MIKE TOPE	36	IEM	2:18.27	JOHN LANE	45
R:SAN MATEO	91 3:52.73	JEFF REILLY	30	JERRY SCHEIBNER	38	VICKI BUCCINO	45
JOE KAUFMAN		JONI SAITO	27	VICKI MARSH	28		
HILDA BUEL		PSP	2:17.19	SCOTT THOMPSON	40	200+	
RAY TAFT		BRUCE D MARSHALL	33	H.CARLING-SMITH	40	R:LINCOLN	89 2:15.20
MARGARET KEIL		TRACEY MCFARLANE	25	IHAC	2:18.41	BETTY BENNETT	
SAN MATEO	3:52.73	JAMES LORIMAR JR	22	JANICE LOPEZ	31	WILLIAM MULLIKEN	
JOE KAUFMAN	86	BECKY S KNOTT	26	DEBORAH MEBEL	28	IRENE DAVID	
HILDA BUEL	77	ROSE	2:19.40	TOM COURTNEY	41	PAUL HUTINGER	
RAY TAFT	72	JIM BERGEN	23	RICK GARCIA	28	SAM DIEGO SWIM	2:32.48
MARGARET KEIL	85	JUDITH MURPHY	32	OJAI	2:19.59	BETSY JORDAN	54
CONN MASTERS	3:54.63	PAUL CALDERON	27	SUSAN C CHAPIN	40	PETER E RIDOLE	53
MARIE WICKLUN	77	THERESA OVERING	29	MARC WHITMAN	33	SUSAN RITTENHOUSE	53
ROGER CHAMBERLAIN	74	ST. LOUIS	2:19.54	JULIENNE GIULIANI	27	BILL EARLEY	54
GUS LANGNER	88	LESLIE COOPER	31	HOWARD RADDING	35	ST. PETE	2:36.37
BETTY DZIADUS	81	MIKE LAMPMAN	26	160+		ELAINE BROMWICH	48
*****		DAVID CRAMER	32	R:GREATER INDIANAB9	2:07.18	HARRY PIPER	57
RELAYS: MIXED 200 M. MEDLEY		C. ECKENRODE	29	SALLY HASBROOK		JACQUELYN PIPER	54
*****		SBSC	2:23.44	SHARON WISE		ART HALTTUNEN	41
76 +		ALFRED E NASH	27	TOM PERRIN		SCAQ	2:38.34
R:RIVERSIDE AQU	89 2:06.31	ROY L MCLAUGHLIN	25	ROGER JONES		GEORGE BRINTON	67
DANIEL RUBANO		ARLETTE GRDESIC	27	ALMADEN SWIM	2:25.14	ELIZABETH PEARSON	41
HEIDI PLATNER		MELORA E NASH	27	JEFF NEUROTH	44	MICHAEL HEATHER	37
MONICA WARD		INDIANA	2:25.32	MANDY MCCLELLAN	36	JACQUELINE DUNLOP	60
STEVEN BEHRENS		MARY COUDRET	23	DAVE CLARE	42	LINCOLN MASTERS	2:40.12
AFAM	2:22.60	DEWEY WYATT	27	MARILYN BLISS	45	MARY POHLMANN	46
JUDY HUPP	27	JENNIFER RICE	27	TRIAD MASTERS	2:27.74	E.MOORE	57
DIRK BOUMA	23	ERIC BROWN	27	FRANK STARLING	48	BILL MULLIKEN	52
THOMAS KOMP	22	120+		JIM BURWELL	45	TIMOTHY GRIFFIN	48
ALEXANDRIA FABBRO	27	R:LAKESIDE	89 1:58.28	KAREN BUNCH	34	NEW ENGLAND	2:44.00
OJAI	2:24.10	WILLIAM TINGLEY		MARY DOWLEN	35	JEANNINE OLSON	52
JESSE A RIDENOUR	20	GINA GATTI		NEW ENGLAND	2:29.44	TOM LYNDON	60
JULIENNE GIULIANI	27	MICHAEL HIGGS		SUE TENDY	42	WAYNE PICKERING	54
SHARLEE CARPER	30	MELINDA SCHMITT		EILEEN CRAFFEY	40	KATHY LYNCH	36
QUANAH T RIDENOUR	21	AFAM	2:09.04	FRANK MCQUIGGAN	43	IEM	2:46.85
BOLT	2:40.21	ALAN ARATA	30	G.SICHELSTIEL	43	MARGARET HAIR	35
CHRISTINE SCHMITT	20	BRIAN CANINO	31	SBAY	2:31.26	DAVE DABOLL	54
WILLIAM SCHWARTZ	23	KIMBERLY ARATA	31	BOB CURRIE	38	CAROLYN KENT	45
LJ SCHMITT	23	KELLY LAZERSON	30	MARCIA BARRY	43	SID ROSEN	70
CINDY ELLZEY	32	GREENVILLE	2:10.81	STEVEN KOVARY	49	HSAM	2:51.20
100+		MARK BERTZ	31	CAROLE SHIGAKI	36	CAROL SING	50
R:ULTRA SWIM	89 2:04.29	KATIE MCNAMARA	36	HSAM	2:34.37	MARILYN RAMEY	51
C.HARTZELL		RICHARD EISENBR	30	SHERYL DASCO	41	DAVID SZUCH	48
DAVID BRIGGS		BETH SCHEIMANN	29	LEE MENCH	39	RON WILLIAMSON	53
TOM YOUNGER		CHAPEL HILL	2:10.82	DOUGLAS SELBY	46	ARIZONA MASTERS	2:58.92
DIANE GREEN		J.EDMUNDSON	27	CHRISTINE BIBY	44	RAY BELLEM	54
AFAM	2:01.83NV	CLARE MOREY	29	AQUA CREST	2:35.27	ANNEMARIE BELLEM	51
ANNA R PLANTIER	28	WILLIAM DAVIS	33	DEBBIE SHAMMAA	35	CHAR ERNSTEIN	53
ALAN W ARATA	30	THOMAS BOYD	35	KELLY FROST	27	MARK SNELLER	49
KIMBERLY D ARATA	31	SBAY	2:13.20	STUART PECHTER	40	OJAI	3:08.36
KIRK W CLEAR	23	CAROLE SHIGAKI	36	MARVIN KLEINMAN	64	HARRY DELATRE	45
NEW ENGLAND	2:09.68	ROBERT S CURRIE	38	NOMS	2:38.79	BERND DRESSLER	51
LYNNE PECKENHAM	22	AMY E NELSON	24	FREDERICKA RAPP	47	CAROLE BORLAND	48
MATT CONNERY	27	ROBERT B EBERWINE	31	DONALD KROEGER	47	JAN K RAINS	57
STUART CROMARTY	27	WH20	2:16.74	MARLA MICHELSEN	36	IEM	3:14.93
KRISTEN HENSON	26	ANDREA J DEVOUNO	29	THOMAS MOYER	43	MARDELLE SHAGOOL	54
LOS ALTOS	2:09.86	ERIN T CHILDS	33	WSM	2:48.37	SR. MADONNA BUDER	60
DENISE CAZALET	23	PAULO FIGUEIREDO	45	JENN BETTRIDGE	25	WAYNE WILSON	51
TOM DUGAN	33	MARK W SPRATT	36	OWEN M DAVIES	61	BILL OOMAN	71
RANDY COX	29	MOUNTAIN VIEW	2:17.09	CINDY PACKARD	40	240+	
LINDA LIPINSKI	32	LOWELL STAVELAND	33	FREDERICK A LORIG	45	R:LOS ALTOS	91 2:32.46
SBAY	2:12.60	MO CHAMBERS	33	ALMADEN SWIM	2:57.07	DELLA SEHORN	
ELISABETH SILVER	31	CRAIG GRIMES	34	CONNIE KNOTT	41	JOHN RICHARDS	
SCOTT SOUTHROM	27	SUZANNE TOPP	24	M.FARNSWORTH	51	LAURA VAL	
BRIAN KELCA	31	GEORGIA	2:17.86	TOM SAVASO	36	JAY CRADDOCK	
ANN T FINLEY	29	LINDLE DOUGHTY	32	JOE BECKER	45	LOS ALTOS	2:32.46
		REED FARRIS	36	BOLT	2:58.39	DELLA SEHORN	64

TOP TEN SHORT COURSE METERS

JOHN RICHARDS	69			CYNTHIA TAGGART	36	R: AIR FORCE AQU	90	4:48.01		
LAURA VAL	39	320+		J. GOSPODNETICH	47	JUDY HOPP				
JAY CRADDOCK	70	R: SAN MATEO	91	4:23.02		ROBERT CANINO				
NEW ENGLAND	2:41.58	JOE KAUFMAN			200+	KIMBERLY ARATA				
BARR CLAYSON	56	HILDA BUEL			R: OREGON	90	4:50.94			
PAUL TSONGAS	50	RAY TAFT			BARBARA FRID			AFAM	5:11.31	
CLARA WALKER	65	MARGARET KEIL			HUGH RICHARDS			WES HALLMAN	25	
BILLIE BURRILL	70	SAN MATEO	4:23.02		GINGER PIERSON			ALAN ARATA	30	
ARIZ	2:48.11	JOE KAUFMAN	86		ROBERT SMITH			KAMERA MURALT	33	
NANCY MACBETH	62	HILDA BUEL	77		OREGON	4:58.30		KELLY LAZERSON	30	
DAN GRUENDER	62	RAY TAFT	72		ERIC GUEST	61		ST. LOUIS	5:39.70	
BELLEM RAY	55	MARGARET KEIL	85		BARBARA FRID	48		DAVID CRAMER	32	
DIE GRUENDER	63	*****			ROBERT SMITH	47		MIKE LAMPMAN	26	
SAN DIEGO SWIM	2:54.13	RELAYS: MIXED 400 M. FREE			GINGER PIERSON	44		C. ECKENRODE	29	
DIANA SILVA	69	*****			EMPIRE STATE	5:16.26		TRACY PARKS	28	
ALICIA COLEMAN	65	76 +			ALICE JONES	53				
GORDON GILLIN	60	R: PNA	91	4:28.14	ANN MCDONNELL	53	120+			
FRED WADSWORTH	62	JUSTIN FARRABEE			JAMES JOHNSEN	56	R: TEXAS SWIMMASTER88	4:56.95		
NEW ENGLAND	2:54.84	DAVID PARSONS			JOE BOLZE	51	CATHY PHILLIPS			
SUSAN BLAKE	53	PAMELA STATLER			SDSM	5:57.59	RICH ENRIGHT			
MILTON BRIER	63	TAMMI KEELER			KEN KIMBALL	61	LARRY WOOD			
DONNA EDELBAUM	58	PHA	4:28.14		LAURA MELDRUM	38	AMY HUBER			
J. K. EDWARDS	68	JUSTIN FARABEE	26		GINI BURNS	41	ST. LOUIS	5:03.74		
ST. LOUIS	3:01.30	DAVID HILL	30		DONALD BAKER	60	GARY JEWELL	41		
GARY JEWELL	41	PAMELA STALTER	24		SBAY	6:45.99	LEO LETENDRE	38		
DON SERY	67	TAMMI KEELER	23		PATRICIA BAXTED	54	LESLIE COOPER	31		
DORIS PETERS	68				CHUCK MCPEAK	55	JEANNE MESSINA	31		
A. CARRIER	70	100+			STEVEN KOVARY	49	HEARTLAND S A M	5:19.18		
HSAM	3:17.00	R: UNIV HOUSTON	88	4:19.91	PATRICIA BURBANK	44	SUE TOLMAN	30		
NANCY REED	64	JIM ELGIN			HSAM	6:53.63	SHERRY BROTHERS	32		
GENE SAPPER	62	KIM PIPER			NANCY REED	64	DAVE SZUCH	48		
JUCY TILARO	56	STACY JONES			RUDOLPH SAPPER	59	STEVE SAPPER	32		
RUDOLPH SAPPER	59	JANE HALLENBECK			LARRY SMITH	45	SBYW	5:37.47		
LBM	3:21.10	ST. LOUIS	4:33.59		GAYLA BROWN	41	CYNTHIA OWENS	22		
MAUREEN KORNFELD	69	DAVID CRAMER	32				MARI HERNANDEZ	30		
ERNEST VANHORN	75	LESLIE COOPER	31		240+		BOB BEST	59		
SUZ ARTUKOVICH	35	MIKE LAMPMAN	26		R: TAMALPAIS	88	5:55.13	JULIA HENDRIX	33	
EMILE ACHEE	64	C. ECKENRODE	29		CHARLOTTE JENKINS			HSAM	5:49.14	
IEM	3:56.29	120+			ROBERT BURNS			MIKE SAPPER	35	
EVELYN HAYES	68	R: S CALIF AQ	89	4:05.98	DORE SCHWAB			VIRGINIA BENDIK	38	
C. J. HAMILTON	78	MICHAEL HEATHER			NANCY RIDOUT			STUART LONDON	25	
GARRY HARN	56	CLAY EVANS			ST. LOUIS	7:07.45		PATTI EMERICH	38	
LINDA ELY	46	DIANE GRANER			A. CARRIER	70				
BOLT	3:58.31	JOANNE BECK			CARL CLASSEN	69	160+			
CLAIRE ROACH	64	ROSE	5:11.80		REGAN KENNER	67	R: EMPIRE STATE	91	5:09.90	
RICHARD DANIEL	65	JANET LEHMAN	32		WILLIAM CANNON	61	GWEN DEELY			
ROSEMARY KARIKER	72	WILLIAM HEWLETT	37				JON EINSIDLER			
N HEDRICK	68	M KELLY MALONE	32		280+		KAREN FARNSWORTH			
		MICHAEL RAVEN	41		R: SAN MATEO	89	6:26.07	RON BRAWER		
280+					AUDREY ETIENNE			EMPIRE STATE	5:09.90	
R: CONN	87	3:19.26			FRED TAIOLI			GWEN DEELY	41	
NANCY PHILLIPS		IEM	5:11.96		HELEN ROUMASSET			JON EINSIDLER	40	
ROGER CHAMBERLAIN		STEVE OMI	34		RAY TAFT			KAREN FARNSWORTH	35	
DOT DONNELLY		WHITNEY PARSONS	25		ST. LOUIS	7:44.96		RON BRAWER	48	
GUS LANGHER		MARGARET HAIR	36		CARL CLASSEN	69	MINNESOTA	5:18.06		
ST. LOUIS	3:22.57	MIKE LITTLE	35		REGAN KENNER	67	VICKY SANDBERG	34		
CARL CLASSEN	69	160+			ART KELLEY	65	JOHN MCCALL	40		
REGAN KENNER	67	R: LOS ALTOS	88	4:29.69	EDITH HENDRY	80	PETE MAGEE	54		
ART KELLEY	65	LAURA VAL			*****		S. LEE-SHERIDAN	39		
EDITH HENDRY	80	ED CAZALET			RELAYS: MIXED 400 M. MEDLEY					
LBM	3:51.41	ARLENE PROEBSTING			*****					
MAURINE KORNFELD	69	DICK THOMAS			76 +		200+			
ERNEST B VANHORN	75	MINNESOTA	4:37.61		R: INLAND EMPIRE	87	5:26.32	R: SAN DIEGO	91	5:13.60
MAXINE O MERLINO	79	PETE MAGEE	54		SUSAN HANCOCK			BETSY JORDAN		
ROBERT D SMITH	75	VICKY SANDBERG	34		CHASE COPELAND			PETER RIDDLE		
IHAC	5:12.01	JOHN MCCALL	40		DON STORY			BARBARA DUNBAR		
MAX LUNA	76	SUE KURAK	32		LOUISE WALLS			BILL EARLY		
RUFUS CLARK	80	IEM	6:27.06		NO RELAY TEAMS			SAN DIEGO SWIM	5:13.60	
KATHERINE PELTON	86	DAVE WEEKS	43					BETSY JORDAN	54	
GEORGIA FLAUGHER	63	CAROLYN KENT	45					PETE RIDDLE	53	
					100+			BARBARA G DUNBAR	42	

TOP TEN SHORT COURSE METERS

BILL EARLEY 54
 HSAM 6:45.87
 SHERYL DASCO 41
 GENE SAPPER 62
 DAVID BUTLER 44
 JUDY TILARO 56

240+
 R:SAN DIEGO 89 6:37.62
 KEN KIMBALL
 ALICIA COLEMAN
 ROBERTA TURCOTTE
 DONALD BAKER
 ST. LOUIS 7:47.88
 A. CARRIER 70
 DORIS PETERS 68
 WILLIAM CANNON 61
 DON SERY 67

280+
 R:CONNECTICUT 88 7:42.99
 NANCY PHILLIPS
 GUS LANGNER
 ROGER CHAMBERLAIN
 DOROTHY DONNELLY
 NO RELAY TEAMS

 RELAYS: MIXED 800 M. FREE

76 +
 R:EMPIRE STATE 91 9:58.40
 HEATHER SAYLOR
 NATHANIEL WARING
 DENISE DEPPELER
 JEFF BARANY
 EMPIRE STATE 9:58.40
 HEATHER SAYLOR 25
 NATHANIEL WARING 27
 DENISE DEPPELER 24
 JEFF BARANY 23

100+
 R:SOUTH BAY WAVES 89 9:19.97
 ROGER BARTELS
 ROBERT EBERWINE
 SUSAN STORER
 ANN FINLEY
 EMPIRE STATE 9:27.60
 PETER MARCUS 35
 KRISTIN BROOKS 26
 CHERYL KUPAN 27
 STEVE FISHER 29
 ST. LOUIS 9:48.81
 LESLIE COOPER 31
 DAVID CRAMER 32
 C. ECKENRODE 29
 MIKE LAMPMAN 26
 AFAM 10:42.49
 WES HALLMAN 25
 KIRK CLEAR 24
 KAMERA MURALT 33
 KELLY LAZERSON 30
 SBAY 12:18.69
 ALEC MCTURK 30
 FONDA WU 31
 NADINE THOMPSON 32
 LAURIE KLENKE 26

120+
 R:SAN DIEGO 89 9:12.88

JENNIFER CAINE
 MARILYN FINK
 MICHAEL LYLE
 JEFFERY MILTON
 SBAY 10:28.97
 TOM O'HERN 36
 CHRIS LANSBERG 37
 MARCIA BARRY 43
 JENN SANTILLANO 38
 EMPIRE STATE 10:39.64
 ALAN GARFUNKEL 44
 EVE HARTMAN 29
 AVERY MEYERS 25
 WARREN MEYERS 31
 AFAM 11:13.78
 LEANN HERMANSON 33
 ALEXANDRIA FABBRO 27
 DAVID LAZERSON 28
 JURGEN SCHMIDT 68

EMPIRE STATE 11:16.06
 MARCIA CLEVELAND 27
 ROBERT VALENTIN 21
 GEORGE STEERS 37
 LILLIAN FORMAN 55
 HSAM 11:17.49
 GEORGE DALL 36
 BRUCE MENZIES 42
 TERRI MARTIN 21
 SHERYL WALKER 35

HSAM 11:21.44
 JIM BOLLMAN 38
 CESAR ROMERO 31
 BECKY JACKMAN 28
 JONI SAITO 27
 ROSE 11:23.87
 M KELLY MALONE 32
 WILLIAM HEWLETT 37
 JANET LEHMAN 32
 KIRK HAMMOND 36

160+
 R:ST. LOUIS 91 9:32.22
 SRDETH MUELLER
 GARY JEWELL
 LESLIE COOPER
 LEO LETENDRE
 ST. LOUIS 9:32.22
 ARDETH MUELLER 50
 GARY JEWELL 41
 LESLIE COOPER 31
 LEO LETENDRE 38
 EMPIRE STATE 9:54.50
 KAREN FARNSWORTH 35
 JON EINSIDLER 40
 GWEN DEELY 41
 RON BRAWER 48
 HSAM 12:34.27
 DOUGLAS SELBY 46
 JERRY O'MARA 44
 GAYLA BROWN 41
 PATTI EMERICH 38

200+
 R:SAN DIEGO 89 10:40.03
 WILLIAM EARLEY
 WILLIAM PHILLIPS
 BETSY JORDAN
 BARBARA DUNBAR
 MINNESOTA 12:29.79
 RAY HAKOMAKI 71

KATHIE THEIS 59
 M.BETH WINDRATH 38
 WAYDE MULHERN 32
 HSAM 12:54.51
 DAVID SZUCH 48
 MICHAEL PHILLIPS 49
 SHERYL DASCO 41
 NANCY REED 64
 CPMH 13:26.39
 MARGE BOWDON 67
 JOSEPH PESCHEL 45
 E.B. LUNKEN 49
 PAT MALEY 47
 SBAY 14:55.16
 STEVEN KOVARY 49
 CHUCK MCPEAK 55
 PATRICIA BAXTED 54
 PATRICIA BURBANK 44

240+
 R:O'H*I*O 90 13:56.05
 DEXTER WOODFORD
 PAUL KRUP
 DARLENE FERGUSON
 BETTY RUSS
 NO RELAY TEAMS

280+
 R:SPACE COAST 87 20:36.33
 VERA BROWN
 SUE MCGAUGHEY
 GUS SPOHN
 RICHARD FLETCHER
 NO RELAY TEAMS

WORLD RECORDS

SHORT COURSE METERS (as of 12-31-91)

WOMEN	50 M. FREE	100 M. FREE	200 M. FREE	400 M. FREE	800 M. FREE	1500 M. FREE	50 M. BACK	100 M. BACK	200 M. BACK
19-24									
25-29	26.93 USA L.FABRIZIO	58.93 NZL M.RODAHL	2:05.80 NZL R.WILLIAMS	4:25.94 CAN L.MARSHALL	9:18.99 USA D.GRANER	17:36.04 USA D.GRANER	30.63 USA D.GRANER	1:04.66 USA D.GRANER	2:20.66 USA D.GRANER
30-34	26.55 USA S.NEILSON	57.35 USA S.NEILSON	2:06.83 USA S.NEILSON	4:31.88 USA B.KNIGHT	9:09.90 CAN L.MARSHALL	18:24.43 USA B.DURDY	32.24 USA L.HASSELQUIST	1:10.41 USA L.DOUGHTY	2:32.32 USA Z.HERRMANN
35-39	27.66 USA J.HIRSTY	1:00.75 USA J.HIRSTY	2:12.69 USA J.HIRSTY	4:51.04 USA D.OGIER	9:46.95 USA L.VAL	18:27.71 USA L.VAL	33.39 E/2 ROGERS/BIDDLE	1:10.47 CAN P.GILMORE	2:34.09 CAN P.GILMORE
40-44	29.09 HUN M.PATOH	1:04.92 ENG S.SHRIPTON	2:21.22 USA B.DUNBAR	4:53.28 USA B.DUNBAR	10:04.16 USA B.DUNBAR	19:00.81 USA B.DUNBAR	33.85 ENG PLATT-ROGERS	1:14.02 ENG PLATT-ROGERS	2:42.85 ENG A.CORK
45-49	30.05 USA N.RIDOUT	1:07.90 USA N.RIDOUT	2:28.69 USA A.MUELLER	5:28.87 USA J.KATZ	11:04.43 USA J.KATZ	22:18.64 USA P.MALEY	35.43 JPN S.TAKEUJI	1:17.13 JPN S.TAKEUJI	2:56.06 USA B.BENNETT
50-54	31.31 JPN Y.OSAKI	1:06.41 USA A.MUELLER	2:27.95 USA A.MUELLER	5:12.43 USA A.MUELLER	11:35.78 USA L.STOINOFF	21:44.35 USA L.STOINOFF	37.59 USA B.JORDAN	1:20.50 USA A.MUELLER	2:48.88 USA A.MUELLER
55-59	31.83 USA J.BRUNER	1:11.63 USA J.BRUNER	2:40.27 USA L.STOINOFF	5:34.32 USA L.STOINOFF	11:29.99 USA L.STOINOFF	21:35.84 USA L.STOINOFF	40.35 AUST P.HUTCHINGS	1:28.79 USA N.BROWN	3:11.13 USA L.STOINOFF
60-64	33.54 ENG J.ASHER	1:13.68 ENG J.ASHER	2:49.55 ENG J.ASHER	6:02.43 USA C.WALKER	12:21.67 USA C.WALKER	23:28.15 USA C.WALKER	39.60 USA C.WALKER	1:29.13 USA C.WALKER	3:16.14 USA D.STEADMAN
65-69	34.92 AUS M.CUNNINGHAM	1:20.80 USA C.WALKER	3:02.54 AUS M.CUNNINGHAM	6:16.83 USA C.WALKER	12:38.09 USA C.WALKER	23:48.62 USA C.WALKER	40.48 USA D.STEADMAN	1:30.41 USA D.STEADMAN	3:15.72 USA D.STEADMAN
70-74	40.42 USA L.DONOVAN	1:31.84 USA L.DONOVAN	3:28.41 USA L.WINGARD	7:17.22 USA R.SIMONTON	15:06.99 USA R.SIMONTON	28:29.85 USA R.SIMONTON	45.08 ENG W.VAN RYSEL	1:44.02 ENG W.VAN RYSEL	3:53.86 ENG W.VAN RYSEL
75-79	42.88 JPN H.SUGAYA	1:45.53 ENG V.CHERRIMAN	3:50.58 JPN U.WADA	7:56.05 ENG V.CHERRIMAN	17:16.06 USA M.MERLINO	33:53.33 USA M.MERLINO	48.06 ENG W.VAN RYSEL	1:48.13 ENG W.VAN RYSEL	4:00.43 ENG W.VAN RYSEL
80-84	48.76 USA J.DOLCE	1:53.70 ENG V.CHERRIMAN	4:17.73 USA J.DOLCE	8:51.10 ENG V.CHERRIMAN	18:11.90 ENG V.CHERRIMAN	35:44.26 ENG V.CHERRIMAN	1:05.08 ENG V.CHERRIMAN	2:24.00 ENG V.CHERRIMAN	5:18.44 USA S.SCOTT
85-89	1:03.78 USA M.MCKECHNIE	3:01.15 USA A.BAUSCHER	5:33.83 USA M.MCKECHNIE		24:05.34 USA M.MCKECHNIE		1:13.57 USA M.MCKECHNIE	2:52.17 USA A.BAUSCHER	6:00.16 USA M.MCKECHNIE
90-94	2:06.95 AUST V.FERNANCE	4:23.67 AUST V.FERNANCE					1:55.07 AUST V.FERNANCE	4:19.46 AUST V.FERNANCE	

WORLD RECORDS

SHORT COURSE METERS (as of 12-31-91)

WOMEN	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.
19-24									
25-29	33.60 HOL R. WILLEMSE	1:13.60 HOL R. WILLEMSE	2:44.82 WGR B. STEINHOF	29.51 NZL M. RODAHL	1:05.71 SCO S. MCDONALD	2:17.13 AUST PALMER-WHITE	1:06.84 NZL M. RODAHL	2:24.07 USA D. GRANER	5:06.88 AUST PALMER-WHITE
30-34	35.25 USA V. KERR-HAGUE	1:18.13 USA L. BENNETT	2:49.16 SWI E. ISEPPI	30.20 USA NEILSON-BELL	1:04.69 NZL R. PERROTT	2:27.92 ENG D. BRADES	1:07.78 USA S. NEILSON	2:27.11 USA S. NEILSON	5:21.01 USA B. DURDY
35-39	34.63 USA L. OSBORNE	1:16.70 USA L. OSBORNE	2:50.93 USA L. OSBORNE	30.21 USA L. VAL	1:08.00 USA L. VAL	2:35.70 USA B. DUNBAR	1:11.55 USA J. HIRSTY	2:35.52 USA C. KOHN	5:32.65 CAN P. GILMORE
40-44	38.00 CAN B. PRONK	1:23.81 USA G. PIERSON	3:01.86 USA G. PIERSON	31.81 ENG PLATT-ROGERS	1:10.56 USA B. DUNBAR	2:32.19 USA B. DUNBAR	1:14.63 ENG S. O'NEIL	2:42.81 USA B. DUNBAR	5:42.95 USA B. DUNBAR
45-49	38.67 USA E. BROMWICH	1:25.20 USA E. BROMWICH	3:04.75 USA G. PIERSON	33.36 ENG J. WILSON	1:15.58 ENG J. WILSON	2:37.88 USA A. MUELLER	1:14.41 USA A. MUELLER	2:42.88 USA A. MUELLER	5:55.35 USA A. MUELLER
50-54	39.87 SCO F. CONNOLLY	1:25.89 HOL E. LOSKAMP	3:10.05 HOL E. LOSKAMP	36.06 HOL E. LOSKAMP	1:12.66 USA A. MUELLER	3:11.83 USA S. RADEMAKER	1:18.05 USA A. MUELLER	2:57.65 JPN Y. OSAKI	5:56.24 USA A. MUELLER
55-59	40.69 USA J. BRUNER	1:28.13 SCO F. CONNOLLY	3:12.85 SCO F. CONNOLLY	37.87 ENG J. ASHER	1:27.88 SCO F. CONNOLLY	3:11.42 SCO F. CONNOLLY	1:24.19 USA J. BRUNER	3:05.23 SCO F. CONNOLLY	6:36.03 SCO F. CONNOLLY
60-64	42.02 WGR E. BOEHM	1:39.86 USA C. WALKER	3:41.14 ENG H. EVANS	38.40 ENG J. ASHER	1:36.95 USA P. DOTSON	3:33.12 USA J. KRAUSER	1:27.50 USA C. WALKER	3:14.28 USA C. WALKER	6:58.97 USA C. WALKER
65-69	47.39 USA B. CHRISTIAN	1:43.57 HOL BURG-BONNIER	3:46.02 ENG H. EVANS	44.27 AUST M. CUNNINGHAM	1:38.74 USA J. KRAUSER	4:10.63 USA J. EPPLEY	1:37.07 AUS M. CUNNINGHAM	3:18.77 USA C. WALKER	7:57.77 USA F. CARR
70-74	50.95 USA G. ZINT	1:54.84 HOL I. FRITZE	4:09.41 JPN M. HAMURO	48.27 CAN C. KERR	2:04.25 USA G. ZINT	4:36.96 USA M. MERLINO	1:43.67 CAN C. KERR	4:04.81 USA R. SIMONTON	8:34.79 USA R. SIMONTON
75-79	58.41 ENG D. WESTON	2:00.27 GER E. PAULI	4:35.24 USA M. MERLINO	59.27 USA M. MERLINO	2:12.17 USA M. MERLINO	4:48.50 USA M. MERLINO	2:00.07 USA M. MERLINO	4:17.89 USA M. MERLINO	9:07.66 USA M. MERLINO
80-84	1:07.65 ENG V. CHERRIMAN	2:40.99 USA M. MILLER	5:33.05 USA E. MATTILA	1:13.27 ENG V. CHERRIMAN	3:09.18 USA K. PELTON	6:20.56 USA E. MATTILA	2:21.39 ENG V. CHERRIMAN	5:23.78 USA E. MATTILA	11:19.93 USA E. MATTILA
85-89	1:37.05 USA K. PELTON	3:09.62 USA K. PELTON		1:24.53 USA K. PELTON	3:29.58 USA K. PELTON	7:15.07 USA K. PELTON	3:00.23 USA K. PELTON	9:49.36 USA A. BAUSCHER	
90-94	1:49.01 NZL D. VENNING	4:05.59 NZL D. VENNING							

WORLD RECORDS

SHORT COURSE METERS (as of 12-31-91)

M E N	50 M. FREE	100 M. FREE	200 M. FREE	400 M. FREE	800 M. FREE	1500 M. FREE	50 M. BACK	100 M. BACK	200 M. BACK
19-24									
25-29	23.16 USA R. PEEL	51.74 HOL L. VERHAGE	1:54.00 USA B. WELLS	4:04.50 CAN G. WALBOURN	8:48.63 USA A. JAGERS	16:41.55 CAN G. WELBOURN	27.25 USA C. BRITT	58.42 USA C. BRITT	2:09.12 USA B. WELLS
30-34	22.82 JPN R. GAINES	50.51 JPN R. GAINES	1:50.91 JPN R. GAINES	4:02.66 JPN R. GAINES	8:34.26 USA D. STEPHENSON	17:11.56 USA M. CLARK	27.18 USA J. CLAY BRITT	58.12 USA J. CLAY BRITT	2:15.67 USA F. LEHMAN
35-39	23.98 USA B. VICKERY	53.94 USA B. VICKERY	1:59.38 USA L. WOOD	4:18.22 USA R. COPELAND	9:13.76 USA L. WOOD	17:25.79 USA R. COPELAND	28.05 USA M. NASH	1:01.45 USA T. WOLF	2:15.47 USA T. WOLF
40-44	24.91 USA A. MCPHERSON	55.35 USA A. MCPHERSON	2:01.01 USA K. POLANSKY	4:18.45 USA K. POLANSKY	9:01.20 USA K. POLANSKY	17:38.17 USA D. GRAY	28.93 USA J. HEIDENREICH	1:04.50 USA R. COOLEY	2:22.17 USA T. SPIEKER
45-49	25.46 USA R. WOODROW	56.64 USA K. LODWIG	2:05.81 USA E. CAZALET	4:29.82 BAR A. EDGHILL	9:32.34 USA R. BOYD	18:10.24 BAR A. EDGHILL	29.33 USA R. SMITH	1:05.31 USA R. SMITH	2:24.87 USA J. CALVERT
50-54	26.35 USA J. FARRELL	59.21 SWE P. BERGENGREN	2:15.10 USA H. SOUTHALL	4:45.96 USA B. JONES	9:50.17 USA D. GALLAGHER	19:16.63 USA B. JONES	31.42 USA J. SMITH	1:09.38 NZL B. YOUNG	2:30.21 NZL B. YOUNG
55-59	26.60 USA D. HILL	1:00.08 USA D. HILL	2:21.68 USA B. JONES	5:00.88 USA G. JOHNSTON	10:35.62 USA G. JOHNSTON	20:03.24 USA B. JONES	32.69 USA Y. OYAKAWA	1:12.17 USA Y. OYAKAWA	2:41.11 USA J. BEATTIE
60-64	28.30 JPN S. TAMAMOTO	1:05.52 USA C. BALDWIN	2:21.77 USA G. JOHNSTON	5:14.08 USA W. PHILLIPS	11:14.13 USA W. PHILLIPS	21:46.98 USA W. WILSON	34.81 USA P. HUTINGER	1:17.31 USA P. HUTINGER	2:49.82 USA R. FRANKS
65-69	29.63 USA F. PIEMME	1:07.13 USA F. PIEMME	2:36.10 USA F. PIEMME	5:37.93 USA E. KERSWILL	11:55.05 USA F. PIEMME	22:21.91 USA F. PIEMME	36.36 USA P. HUTINGER	1:23.24 USA P. HUTINGER	3:03.05 USA P. HUTINGER
70-74	31.80 JPN T. NAKASHIMA	1:14.48 USA K. LEMMON	2:46.86 USA R. TAFT	5:56.06 USA R. TAFT	12:15.49 USA R. TAFT	23:59.12 USA A. DA ROSA	38.44 USA R. TAFT	1:24.30 USA R. TAFT	3:07.57 USA R. TAFT
75-79	32.78 USA K. LEMMON	1:15.94 USA K. LEMMON	2:59.20 USA D. WOODFORD	6:23.81 USA D. WOODFORD	13:17.26 USA D. WOODFORD	25:15.05 CAN N. ARTUS	41.90 WGR REINSTADTLER	1:34.84 USA E. SHEA	3:28.13 USA E. SHEA
80-84	38.65 JPN T. TERAQ	1:29.06 JPN T. TERAQ	3:26.46 JPN T. TERAQ	7:05.20 AUST F. LOUGH	15:41.78 USA G. LANGNER	29:58.32 USA G. LANGNER	46.85 JPN T. TERAQ	1:45.81 JPN T. TERAQ	4:01.12 USA EISENSCHMIDT
85-89	44.61 USA G. LANGNER	1:41.46 USA G. LANGNER	3:48.20 USA G. LANGNER	7:54.24 USA G. LANGNER	16:53.90 USA G. LANGNER	32:20.20 USA G. LANGNER	59.79 USA EISENSCHMIDT	2:13.02 USA EISENSCHMIDT	5:23.27 USA J. KAUFMAN
90-94	50.57 AUST L. SPARRIUS	2:49.33 USA P. SPANGLER	5:51.45 USA P. SPANGLER	11:09.76 USA P. SPANGLER		51:43.20 USA P. SPANGLER	1:29.99 USA T. LANE		

WORLD RECORDS

SHORT COURSE METERS (as of 12-31-91)

M E N	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.
19-24									
25-29	28.81 AUS G. FARROW	1:04.49 HOL F. VIJVER	2:24.68 USA P. MCCLAFFERTY	25.77 USA J. LILLEY	57.07 USA B. WELLS	2:07.65 ENG P. SHACKLEY	57.70 AUS G. FARROW	2:10.85 ENG R. LEE	4:43.99 USA A. JAEGER
30-34	30.03 JPN CHRISTIANSEN	1:05.97 JPN CHRISTIANSEN	2:24.92 JPN CHRISTIANSEN	25.06 USA M. BOTTOM	56.43 USA M. BOTTOM	2:13.62 USA MARK SCHUMAN	1:00.98 USA J. CLAY BRITT	2:12.33 USA T. WEISSERT	4:55.11 USA MARK SCHUMAN
35-39	31.94 USA B. VICKERY	1:08.30 WGR G. KRUGER	2:28.35 USA G. HARRISON	25.96 USA R. HESS	1:00.67 AUST N. ROGERS	2:17.46 USA D. VANDAM	1:01.06 USA R. HESS	2:15.67 USA C. EVANS	4:53.16 USA C. EVANS
40-44	31.33 USA P. HENNE	1:10.70 MEX R. HERNANDEZ	2:38.16 MEX R. HERNANDEZ	26.67 USA J. HEIDENREICH	1:00.79 USA A. MCPHERSON	2:16.15 USA B. GALLAS	1:02.30 USA R. COOLEY	2:18.73 USA J. CALVERT	5:00.76 USA J. CALVERT
45-49	31.95 HOL K. WITTENHOUT	1:10.70 USA R. STRAND	2:41.03 USA R. STRAND	27.62 USA R. WOODROW	1:03.48 USA G. LANGENDOEN	2:28.48 USA G. LANGENDOEN	1:06.13 USA R. SMITH	2:24.45 USA J. CALVERT	5:17.02 USA E. CAZALET
50-54	33.09 JPN H. KOTEGAWA	1:14.72 USA D. GALLAGHER	2:45.11 USA D. GALLAGHER	29.34 USA R. PROEBSTING	1:06.66 USA R. PROEBSTING	2:36.01 USA R. PROEBSTING	1:07.60 USA D. GALLAGHER	2:31.52 USA D. GALLAGHER	5:20.81 USA D. GALLAGHER
55-59	33.52 JPN N. KOTEGAWA	1:16.32 USA M. SANGUILY	2:51.47 USA M. SANGUILY	30.15 USA R. BAILIE	1:13.47 USA W. DOBLER	2:53.71 USA M. SANGUILY	1:12.67 USA B. JONES	2:41.86 USA B. JONES	5:54.37 USA B. JONES
60-64	37.53 USA J. KURTZMAN	1:23.19 USA D. VANROSSEN	3:06.66 ITA B. GRAJA	32.09 JPN N. KATO	1:16.56 ENG J. HALE	3:06.04 USA C. MOSS	1:15.84 JPN N. KATO	2:46.69 USA G. JOHNSTON	6:19.49 USA C. MOSS
65-69	38.48 USA J. KURTZMAN	1:27.85 GER K. KNOPS	3:15.28 GER K. KNOPS	33.63 USA F. PIEMME	1:21.66 USA J. KURTZMAN	3:13.03 USA J. KURTZMAN	1:20.20 USA R. TAFT	3:03.80 USA F. PIEMME	6:42.13 USA F. PIEMME
70-74	40.02 WGR W. MINNICH	1:32.13 USA A. DA ROSA	3:24.66 USA A. DA ROSA	36.09 USA A. HOLDEN	1:31.20 USA P. KRUP	3:31.97 USA A. CERER	1:21.87 USA R. TAFT	3:08.13 USA R. TAFT	6:50.27 USA R. TAFT
75-79	42.99 JPN H. YOSHIMOTO	1:42.06 USA D. MCCULLOUGH	3:36.71 USA D. MCCULLOUGH	43.99 USA B. SHOTT	1:44.78 USA D. MCCULLOUGH	4:01.10 USA D. MCCULLOUGH	1:35.55 USA K. LEMMON	3:35.61 USA K. LEMMON	7:49.57 USA D. MCCULLOUGH
80-84	45.52 GER K. WITTENBERG	2:09.01 USA J. PENFIELD	4:45.98 CAN J. MCDIARMID	49.08 USA J. COON	2:07.29 USA J. COON	5:14.66 USA J. COON	1:53.59 USA EISENSCHMIDT	4:36.38 USA EISENSCHMIDT	9:25.63 USA EISENSCHMIDT
85-89	1:05.80 WGR K. KUPPINGER	2:31.20 USA G. LANGNER	5:30.76 USA G. LANGNER	1:21.90 USA A. OLANOFF			2:23.03 USA EISENSCHMIDT	5:02.31 USA EISENSCHMIDT	10:47.13 USA EISENSCHMIDT
90-94	1:50.16 USA T. LANE								

WORLD RECORDS

LONG COURSE METERS (as of 12-31-91)

WOMEN	50 M. FREE	100 M. FREE	200 M. FREE	400 M. FREE	800 M. FREE	1500 M. FREE	50 M. BACK	100 M. BACK	200 M. BACK
19-24									
25-29	26.68 USA S. SHAND	58.23 USA S. SHAND	2:07.11 USA S. SHAND	4:27.53 USA S. SHAND	9:18.43 USA S. SHAND	17:38.78 USA A. POPE	30.80 USA D. GRANER	1:06.46 NZL M. RODAHL	2:19.97 USA D. GRANER
30-34	26.37 USA NEILSON-BELL	58.09 USA NEILSON-BELL	2:07.84 USA B. KNIGHT	4:30.38 USA B. KNIGHT	9:20.20 USA B. KNIGHT	17:55.58 USA B. KNIGHT	32.11 USA B. MAUER	1:09.08 USA B. MAUER	2:29.17 USA Z. HERRMANN
35-39	27.38 USA J. HIRSTY	1:00.25 USA S. HALFACRE	2:09.33 USA S. HALFACRE	4:33.08 USA S. HALFACRE	9:24.54 USA S. HALFACRE	18:12.11 USA S. PAMELIA	32.39 USA L. VAL	1:10.94 USA L. VAL	2:35.77 CAN P. GILMORE
40-44	28.64 USA M. MARTIN	1:03.40 USA M. MARTIN	2:21.09 USA D. MUNGER	4:54.49 USA B. DUNBAR	10:07.92 USA B. DUNBAR	19:13.16 USA B. DUNBAR	34.68 USA M. MARTIN	1:15.24 JPN S. TAKEUJI	2:46.74 ENG A. CORK
45-49	29.08 USA A. MUELLER	1:05.44 USA A. MUELLER	2:24.24 USA A. MUELLER	5:08.67 USA A. MUELLER	10:48.41 USA A. MUELLER	21:08.30 USA A. MUELLER	34.51 JPN S. TAKEUJI	1:17.06 JPN S. TAKEUJI	2:54.05 JPN S. TAKEUJI
50-54	31.10 USA J. BRUNER	1:09.16 JPN Y. OSAKI	2:32.25 USA A. MUELLER	5:16.62 USA A. MUELLER	10:58.47 USA A. MUELLER	21:02.46 USA A. MUELLER	37.62 USA B. JORDAN	1:23.29 USA B. JORDAN	3:01.07 USA B. JORDAN
55-59	32.59 USA J. BRUNER	1:12.34 USA J. BRUNER	2:42.04 USA L. STOINOFF	5:36.66 USA L. STOINOFF	11:30.97 USA L. STOINOFF	22:18.91 USA L. STOINOFF	39.17 USA C. WALKER	1:27.61 USA C. WALKER	3:10.89 USA L. STOINOFF
60-64	34.33 ENG J. ASHER	1:14.25 ENG J. ASHER	2:50.03 USA C. WALKER	6:02.28 USA C. WALKER	12:19.35 USA C. WALKER	23:55.57 USA C. WALKER	40.35 USA D. STEADMAN	1:30.72 DEN G. BENOTSEN	3:15.92 USA D. STEADMAN
65-69	35.46 AUS M. CUNNINGHAM	1:18.66 USA C. WALKER	2:56.88 USA C. WALKER	6:05.22 USA C. WALKER	12:39.70 USA C. WALKER	24:27.67 USA C. WALKER	40.99 USA D. STEADMAN	1:31.58 USA D. STEADMAN	3:17.12 USA D. STEADMAN
70-74	37.91 CAN C. KERR	1:30.37 AUST B. ANDERSON	3:24.61 AUST B. ANDERSON	7:19.34 AUST B. ANDERSON	15:04.91 USA R. SIMONTON	28:46.45 USA R. SIMONTON	45.21 AUST B. ANDERSON	1:39.85 AUST B. ANDERSON	3:47.59 AUST B. ANDERSON
75-79	40.85 JPN H. SUGAYA	1:39.28 JPN U. WADA	3:52.90 ENG V. CHERRIMAN	8:04.16 BRA M. LENK	16:33.41 BRA M. LENK	31:46.49 USA J. DURSTON	50.38 ENG W. VAN RYSEL	1:51.35 ENG W. VAN RYSEL	4:07.44 USA M. WICKLUN
80-84	44.25 JPN U. WADA	1:49.27 AUST M. WRIGHT	4:16.48 ENG V. CHERRIMAN	8:23.50 JPN U. WADA	17:21.19 JPN U. WADA	36:54.26 USA J. DOLCE	53.73 AUST M. WRIGHT	2:01.87 AUST M. WRIGHT	4:22.89 AUST M. WRIGHT
85-89	51.48 USA A. SOULE	2:07.61 USA A. SOULE	4:49.52 USA A. SOULE	13:22.48 USA E. PECKHAM	24:23.38 USA A. BAUSCHER	52:15.77 USA A. BAUSCHER	58.42 USA A. SOULE	2:13.13 USA A. SOULE	4:47.82 USA A. SOULE
90-94	2:02.38 USA P. MILLER	4:08.22 USA P. MILLER					2:01.70 AUST V. FERNANCE	3:59.89 AUST V. FERNANCE	10:47.76 USA P. MILLER

WORLD RECORDS

LONG COURSE METERS (as of 12-31-91)

WOMEN	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.
19-24									
25-29	32.01 ITL S. SEMINATORE	1:16.05 ITL S. SEMINATORE	2:42.02 ENG S. DAVIES	28.79 USA R. SEAMAN	1:03.91 USA R. SEAMAN	2:20.50 AUST PALMER-WHITE		2:22.00 ENG S. DAVIES	5:05.29 ENG S. DAVIES
30-34	34.56 ENG M. MOHMANN	1:14.52 ENG M. HOHMANN	2:48.41 FRG D. HILBIG	29.91 USA NEILSON-BELL	1:06.24 USA R. SEAMAN	2:28.24 USA B. MAUER		2:29.22 USA NEILSON-BELL	5:21.34 USA B. GLASGOW-RHO
35-39	34.41 USA WETZEL-OSBORN	1:17.44 USA WETZEL-OSBORN	2:54.85 USA WETZEL-OSBORN	29.27 USA S. HALFACRE	1:05.39 USA S. HALFACRE	2:26.38 USA L. VAL		2:37.26 CAN P. GILMORE	5:37.19 USA K. FARNSWORTH
40-44	37.32 USA D. MUNGER	1:21.73 USA D. WALKER	3:01.46 USA D. WALKER	30.54 USA M. MARTIN	1:09.45 USA B. DUNBAR	2:33.51 USA B. DUNBAR		2:43.49 USA B. DUNBAR	5:45.58 USA B. DUNBAR
45-49	37.77 AUST J. MACLEOD	1:27.15 ENG E. BROMWICH	3:10.27 ENG E. BROMWICH	30.74 USA A. MUELLER	1:12.67 USA A. MUELLER	2:44.10 USA A. MUELLER		2:46.91 USA A. MUELLER	5:54.98 USA A. MUELLER
50-54	40.22 USA J. BRUNER	1:28.83 USA J. LEILICH	3:14.70 SCOT F. CONNOLLY	32.76 USA A. MUELLER	1:15.47 USA A. MUELLER	2:49.53 USA A. MUELLER		2:54.57 USA A. MUELLER	6:35.20 USA G. ROPER
55-59	39.91 USA J. BRUNER	1:30.72 USA J. BRUNER	3:18.11 SCOT F	35.29 USA G. ROPER	1:27.49 USA G. ROPER	3:17.68 SCOT F. CONNOLLY		3:07.65 USA G. ROPER	6:42.05 USA G. ROPER
60-64	42.49 FRG E. BOEHM	1:38.72 FRG E. BOEHM	3:36.60 USA A. PISCIOTTA	38.54 ENG J. ASHER	1:34.48 USA A. ADAMS	3:32.87 USA G. ROPER		3:17.40 USA C. WALKER	6:59.45 USA C. WALKER
65-69	47.73 USA C. WALKER	1:42.84 USA C. WALKER	3:45.71 ENG M. EVANS	43.35 USA F. CARR	1:40.35 USA J. KRAUSER	3:43.24 USA J. KRAUSER		3:21.17 USA C. WALKER	7:12.69 USA C. WALKER
70-74	50.23 BRA J. GANDOLPHO	1:55.08 GER E. RAUNER	4:09.55 BRA C. GANDOLPHO	49.51 CAN C. KERR	2:02.61 BRAZ M. LENK	4:37.05 USA M. MERLINO		4:06.97 GER E. RAUNER	8:33.57 GER E. RAUNER
75-79	52.90 FRG E. PAULI	2:07.86 FRG M. BUTZBACH	4:36.72 FRG M. BUTZBACH	57.22 BRA M. LENK ZIGLER	2:20.80 USA M. MERLINO	4:54.79 USA M. MERLINO		4:20.42 BRA M. LENK ZIGLER	9:11.23 USA M. MERLINO
80-84	1:04.78 AUST M. WRIGHT	2:41.92 USA C. CRESS	5:43.46 USA E. MATTILA	1:13.71 ENG V. CHERRIMAN	2:52.33 USA E. MATTILA	6:09.67 USA E. MATTILA		5:13.12 USA E. MATTILA	11:14.31 USA E. MATTILA
85-89	1:28.69 NZL D. VENNING	3:18.97 USA K. PELTON	7:45.92 USA E. PECKHAM	1:27.77 USA E. PECKHAM	3:01.14 USA K. PELTON	7:18.41 USA K. PELTON		6:44.53 USA K. PELTON	14:02.65 USA K. PELTON

90-94

95 +

WORLD RECORDS

LONG COURSE METERS (as of 12-31-91)

M E N	50 M. FREE	100 M. FREE	200 M. FREE	400 M. FREE	800 M. FREE	1500 M. FREE	50 M. BACK	100 M. BACK	200 M. BACK
19-24									
25-29	22.59 USA K. DEFORREST	51.25 USA J. MONTGOMERY	1:53.78 USA J. MONTGOMERY	4:06.99 BRAZ M. MATTIOLI	8:41.43 BRAZ M. MATTIOLI	16:28.69 USA C. REID	27.39 BRAZ R. ARANTES	59.00 BRAZ R. ARANTES	2:12.99 USA T. WOLF
30-34	23.21 USA ROWDY GAINES	51.50 USA ROWDY GAINES	1:54.04 USA ROWDY GAINES	4:08.70 USA J. MONTGOMERY	8:46.99 USA J. MONTGOMERY	16:42.28 USA R. NEUGENT	27.32 USA D. OZIER	1:00.40 USA T. WOLF	2:11.77 USA T. WOLF
35-39	24.72 USA R. HESS	54.82 USA W. ARTLEY	2:00.45 USA F. SCHLICHER	4:18.35 USA J. MCCONICA	9:09.59 USA B. BITTLER	17:26.29 USA J. MCCONICA	28.04 USA T. MANN	1:01.60 AUST B. COOPER	2:13.83 USA T. WOLF
40-44	25.25 USA T. GARTON	56.36 USA T. GARTON	2:04.82 USA K. POLANSKY	4:26.60 USA K. POLANSKY	9:19.37 USA K. POLANSKY	17:30.13 USA K. POLANSKY	29.38 USA P. O'KEEFFE	1:03.39 USA P. O'KEEFFE	2:18.17 USA P. O'KEEFFE
45-49	25.30 USA R. ABRAHAMS	57.22 USA T. GARTON	2:07.18 USA T. GARTON	4:36.91 USA T. GARTON	9:49.15 USA D. GRAY	18:34.73 USA E. HINSHAW	30.67 USA R. BURNS	1:07.77 USA E. BARTSCH	2:27.67 USA J. CALVERT
50-54	26.16 USA D. HILL	59.25 USA D. HILL	2:14.39 USA E. HINSHAW	4:51.06 USA E. HINSHAW	10:04.71 USA E. HINSHAW	19:28.41 USA B. JONES	30.93 USA J. SMITH	1:10.14 USA J. SMITH	2:35.44 USA B. JONES
55-59	27.42 USA M. MUCKLERDY	1:01.95 USA B. BAILLIE	2:21.53 USA B. JONES	4:58.41 USA B. JONES	10:27.08 USA B. JONES	19:54.72 USA B. JONES	33.29 BRAZ I. DAFONSECA	1:13.15 USA J. BEATTIE	2:42.37 USA D. BROWN
60-64	28.13 JPN S. YAMAMOTO	1:03.94 USA P. POWLISON	2:25.34 USA G. JOHNSTON	5:17.64 USA W. PHILLIPS	10:36.09 USA G. JOHNSTON	20:06.80 USA G. JOHNSTON	34.39 BRAZ I. DA FONSECA	1:18.06 USA P. HUTINGER	2:52.55 AUST B. BERRY
65-69	28.94 GER B. SCHLURIKE	1:08.15 USA J. WELCH	2:32.90 USA P. POWLISON	5:38.79 USA J. WELCH	11:35.97 AUST R. HARTLEY	22:53.13 USA F. PIEMME	35.47 USA G. GANDSEY	1:21.52 USA P. HUTINGER	2:58.62 USA P. HUTINGER
70-74	29.35 USA K. LEMMON	1:11.61 USA K. LEMMON	2:44.86 USA K. LEMMON	5:57.45 JPN D. SUZUKI	12:34.22 JPN D. SUZUKI	23:59.01 JPN D. SUZUKI	37.49 USA R. TAFT	1:25.35 USA R. TAFT	3:13.25 USA R. TAFT
75-79	32.50 USA L. COLLET	1:14.86 USA K. LEMMON	2:53.73 USA K. LEMMON	6:27.76 USA A. RULE	13:35.96 USA H. HOWE	25:41.55 USA H. HOWE	40.47 USA A. HARGRAVE	1:32.92 USA A. HARGRAVE	3:25.93 USA E. SHEA
80-84	36.62 USA G. SOBEL	1:28.22 USA G. SOBEL	3:31.79 USA G. LANGNER	7:23.09 USA G. LANGNER	15:48.62 JPN T. TERAQ	28:54.95 USA G. LANGNER	45.69 USA A. HARGRAVE	1:50.05 USA A. HARGRAVE	4:04.79 USA EISENSCHMIDT
85-89	44.65 USA G. LANGNER	1:43.03 USA G. LANGNER	3:48.91 USA G. LANGNER	8:14.50 USA G. LANGNER	17:11.21 USA G. LANGNER	33:08.42 USA G. LANGNER	59.15 USA P. JURCZYK	2:18.74 USA R. HARRISON	5:08.97 USA P. JURCZYK
90-94	59.88 USA C. WHEELER	2:14.06 USA C. WHEELER	6:03.12 USA P. SPANGLER			52:41.53 USA P. SPANGLER	1:16.30 USA T. LANE	3:21.19 USA T. LANE	8:59.53 USA T. LOPEZ
95 +								3:21.19 USA T. LANE	

WORLD RECORDS

LONG COURSE METERS (as of 12-31-91)

M E N	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.
19-24									
25-29	29.88 USA R. HOFSTETTER	1:04.60 USA D. LUNBERG	2:26.73 FRG T. LIGL	25.16 USA DEFORREST/BOT	56.34 USA M. BOTTOM	2:05.25 CZECH M. LUKASEK		2:09.21 USA C. REID	4:34.08 USA C. REID
30-34	29.74 USA R. HOFSTETTER	1:05.65 USA D. LUNDBERG	2:24.06 USA D. LUNDBERG	25.31 USA M. BOTTOM	56.64 USA M. BOTTOM	2:07.71 USA J. BELARDI		2:09.69 USA D. LUNDBURG	4:43.93 CZECH P. KOLLROS
35-39	31.52 USA MILTENBERGER	1:10.20 USA MILTENBERGER	2:34.61 USA G. HARRISON	26.35 USA P. MUNGER	58.59 USA F. SCHLICHER	2:12.91 USA F. SCHLICHER		2:18.33 USA S. CORLISS	4:58.48 USA S. CORLISS
40-44	31.82 USA P. DAHLBERG	1:10.99 USA P. DAHLBERG	2:38.02 USA P. WISNER	27.04 USA J. FOOTE	1:02.05 USA L. LARSON	2:23.05 USA B. GALLAS		2:22.23 USA P. O'KEEFFE	5:08.30 USA T. GARTON
45-49	32.76 USA R. NESBIT	1:13.25 USA R. STRAND	2:42.52 USA R. STRAND	27.54 USA D. THOMPSON	1:03.42 USA R. ABRAHAMS	2:32.11 USA J. GEOGHEGAN		2:24.58 USA T. GARTON	5:13.26 USA J. CALVERT
50-54	33.38 JPN H. KOTEGAWA	1:15.60 USA M. SANGUILY	2:53.76 USA M. SANGUILY	28.63 USA M. MEALIFFE	1:07.04 USA M. MEALIFFE	2:33.79 USA B. YORZYK		2:34.67 USA D. GALLAGHER	5:41.04 USA B. JONES
55-59	33.58 JPN H. KOTEGAWA	1:17.87 USA J. KORTHEUER	2:56.20 ENG T. WALKER	30.32 USA B. BAILIE	1:12.19 USA W. YORZYK	2:56.19 FRG M. WERNER		2:43.57 USA B. JONES	5:53.53 USA B. JONES
60-64	35.91 USA J. KORTHEUER	1:21.58 USA J. KORTHEUER	3:08.59 USA J. KORTHEUER	32.19 USA F. PIEMME	1:17.39 USA W. WILSON	3:00.99 USA J. MASTERS		2:51.41 USA G. JOHNSTON	6:04.99 USA G. JOHNSTON
65-69	38.28 USA J. KURTZMAN	1:28.91 USA J. KURTZMAN	3:16.90 GER K. KNOPS	33.34 ENG J. HALE	1:21.49 USA J. KURTZMAN	3:08.79 USA J. KURTZMAN		3:02.81 USA P. POWLISON	6:50.59 USA L. ARTH
70-74	40.56 GER W. MINNICH	1:33.20 USA B. ALLEN	3:32.90 USA A. DA ROSA	35.65 USA R. TAFT	1:32.85 USA A. HOLDEN	3:38.48 AUST D. JEFFREY		3:11.42 USA R. TAFT	6:59.24 USA R. TAFT
75-79	42.58 JPN H. YOSHIMOTO	1:39.69 USA K. LEMMON	3:44.71 USA D. MCCULLOUGH	41.25 USA K. LEMMON	1:42.44 USA K. LEMMON	4:04.13 USA K. LEMMON		3:30.50 USA K. LEMMON	7:48.38 USA K. LEMMON
80-84	46.59 GER K. WITTENBERG	1:51.25 GER K. WITTENBERG	4:40.35 AUST F. GRIFFITHS	52.05 USA J. COON	2:21.06 USA J. COON	5:11.48 AUST F. GRIFFITHS		4:20.72 AUST F. GRIFFITHS	9:47.72 AUST F. GRIFFITHS
85-89	1:01.47 USA A. KALLUNGI	2:18.92 JPN S. YOSHIDA	5:09.86 JPN S. YOSHIDA	59.50 JPN S. YOSHIDA	3:23.06 USA A. OLANOFF			5:33.20 USA T. CURETON	12:27.27 USA A. OLANOFF
90-94	1:36.87 USA T. LANE	5:16.09 USA L. MAGENER							

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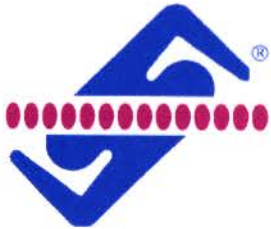
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