FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

WOMEN 25-29

50 M. FREE

27.38	KIKKI MYHRBRO	SWE
27.91	LYNN MARSHALL	CAN
28.00	MARION LOSCH	GER
28.00	BRIGITTE NEUHOFF	GER
28.09	REBECCA WILLIAMS	NZL
28.15	SHARON HODGSON	GBR
28.36	VICKY M. DAVIDSON	USA
28.40	DOROTHEA PIELKE	GER
28.40	STEFFI NIEMITZ	GER
28.50	NETTY GEIJSEN	NED

100 M. FREE

58.99	LYNN MARSHALL	CAN
59.22	KIKKI MYHRBRO	SWE
59.50	REBECCA WILLIAMS	NZL
1:01.03	CECILIA WANGELN	SWE
1:01.53	LEISSA MILLS	USA
1:02.23	S. PALMERWHITE	AUS
1:02.23	MARIA WENSTROM	SWE
1:02.25	SHARON HODFSON	GBR
1:02.27	NETTY GEIJSEN	NED
1:02.59	SUE TOWNSEND	GBR

200 M. FREE

2:05.80	REBECCA WILLIAMS	NZL
2:07.83	LYNN MARSHALL	CAN
2:09.80	DIANE M. GRANER	USA
2:11.38	LEISSA MILLS	USA
2:12.21	S. PALMERWHITE	AUS
2:15.00	CAROL MACINTYRE	GBR
2:16.81	S. BRISTOW	AUS
2:16.95	BRIDGET BURKOT	USA
2:19.26	BRIDGET YOUNG	GBR
2:19.47	ELAINE BEVIS	GBR

400 M. FREE

4:25.94	LYNN MARSHALL	CAN
4:27.54	REBECCA WILLIAMS	NZL
4:39.24	LEISSA MILLS	USA
4:43.46	KIKKI MYHRBRO	SWE
4:46.85	CECILIA WANGELN	SWE
4:47.06	FABIENNE GUIL	FRA
4:49.49	KAREN JUBANUIK	USA
4:53.97	SHELLY C-SELLANI	USA
4:55.60	P. FENWICK	AUS
4:58.41	KIMBERLY POGUE	USA

800 M. FREE

9:18.99	DIANE M. GRANER	USA
9:23.59	LYNN MARSHALL	CAN
9:37.48	CAROL MACINTYRE	GBR
10:06.69	SHELLY C-SELLANI	USA
10:20.28	MYLA JORDAN	USA
10:34.41	C.COSSETTEE	CAN
10:37.58	CHANTAL GAGNON	CAN
10:39.23	ANNE MONTEITH	CAN
10:40.26	GITTE JENSEN	DEN
10:47.03	LYNNE AKERSON	USA

1500 M. FREE

17:36.04	DIANE M. GRANER	USA
17:36.61	LYNN MARSHALL	CAN
17:38.57	S. PALMERWHITE	AUS
18:23.04	CAROL MACINTYRE	GBR
19:30.50	MYLA JORDAN	USA
19:32.47	P. FENWICK	AUS
19:59.14	CHANTAL GAGNON	CAN
20:03.20	GLORIA NEMET	USA
20:10.20	ANNE MONTEITH	CAN
20:12.84	G. CARSLEY	AUS

50 M. BACK

31.87	H. NOGUCHI	JPN
32.40	S.FELGENTRAGER	GER
32.79	S. MORGAN	AUS
32.98	JENNIFER DAVIDSON	USA
33.00	LESLEY WEBB	GBR
33.40	ROBERTA STERPETTI	ITA
33.52	KIKKI MYHRBRO	SWE
33.56	SHARON HODGSON	GBR
33.56	MARJOLEIN PHAFF	NED
33.59	JUDITH CROMJONGH	NED

100 M. BACK

1:06.10	DIANE M. GRANER	USA
1:09.83	H. NOGUCHI	JPN
1:10.96	JUDITH CROMJONGH	NED
1:11.27	LESLEY WEBB	GBR
1:11.55	KIKKI MYHRBRO	SWE
1:12.10	SHEILA MORTELL	USA
1:12.13	MAUREEN CAMERON	GBR
1:12.19	BRIDGET BURKOT	USA
1:12.65	VICKY M. DAVIDSON	USA
1:12.90	SHARON HODGSON	GBR

200 M. BACK

2:22.08	DIANE M. GRANER	USA
2:34.28	LESLEY WEBB	GBR
2:37.31	S. PALMERWHITE	AUS
2:37.81	MAUREEN CAMERON	GBR
2:39.82	CAROL MACINTYRE	GBR
2:40.23	JUDY HUPP	USA
2:40.70	ROBERTA STERPETTI	ITA
2:41.73	BRIDGET YOUNG	GBR
2:44.36	CHRISTINE HOLMAN	USA
2:44.88	JOANNE DAWSON	GBR

50 M. BRST

33.70	S.SEMINATORE	ITA
34.73	S.MCINTYRE-WOODS	USA
36.06	STEPHANIE GURDEN	CAN
36.18	M. MURAKAMI	JPN
36.65	A.ANDERSSON	SWE
36.68	LOTTE SIMONSEN	DEN
36.80	MONICA CORO	ITA
36.87	ELLEN ATKINSON	USA
37.10	KIKKI MYHRBRO	SWE
37.40	MARTINA TUSCHLING	GER
37.40	MARTINA HOHMEYER	GER

100 M. BRST

1:15.50	S.SEMINATORE	ITA
1:15.61	S.MCINTYRE-WOODS	USA
1:18.91	LOTTE SIMONSEN	DEN
1:19.11	M. MURAKAMI	JPN
1:19.81	A.ANDERSSON	SWE
1:20.45	JULIE GINDEN	USA
1:20.70	ELLEN ATKINSON	USA
1:21.04	STEPHANIE GURDEN	CAN
1:21.11	JOANNE BEDARD	CAN
1:21.70	MONICA CORO	ITA

200 M. BRST

2:45.30	S.SEMINATORE	ITA
2:53.02	JOANNE BEDARD	CAN
2:56.05	ELLEN ATKINSON	USA
2:56.43	SUSAN RICHMOND	USA
2:58.80	MONICA CORO	ITA
2:59.01	JUDY SLATER	GBR
3:00.45	LISA FLANAGAN	USA
3:01.11	RAYNE BINNS	GBR
3:02.69	KATHLEEN MCNEILL	USA
3:02.90	REBECCA WILLIAMS	NZL

50 M. FLY

30.44	MARIA WENSTROM	SWE
30.47	C.ANDERSSON	SWE
30.52	A.ANDERSSON	SWE
30.69	S.MCINTYRE-WOODS	USA
30.76	JENNIFER A. BARRY	USA
30.81	KIKKI MYHRBRO	SWE
30.85	SABRINA BECKHOLS	ESP
30.88	VICKI R MARSH	USA
30.90	C.QUINTARELLI	ITA
30.95	NATALIE DESCHAMPS	CAN

100 M. FLY

1:06.88	S. PALMERWHITE	AUS
1:07.46	REBECCA WILLIAMS	NZL
1:07.83	KIKKI MYHRBRO	SWE
1:08.31	DIANE M. GRANER	USA
1:08.53	LYNN MARSHALL	CAN
1:08.79	MERETE HOOK	DEN
1:09.40	S. MORGAN	AUS
1:09.94	JULIE GINDEN	USA
1:10.07	NATALIE DESCHAMPS	CAN
1:10.10	LEISSA MILLS	USA

200 M. FLY

2:20.78	S. PALMERWHITE	AUS
2:28.80	S.MCINTYRE-WOODS	USA
2:28.89	LYNN MARSHALL	CAN
2:34.90	MERETE HOOK	DEN
2:36.36	CAROL MACINTYRE	GBR
2:37.80	N. NIXON	AUS
2:40.70	NATALIE DESCHAMPS	CAN
2:43.92	JUDY HUPP	USA
2:44.00	P. FENWICK	AUS
2:44.96	ELIZABETH BROCK	GBR

100 M. I.M.

1:10.14	A.ANDERSSON	SWE
1:10.46	CECILIA WANGELN	SWE
1:10.81	REBECCA WILLIAMS	NZL
1:11.21	C.ANDERSSON	SWE
1:11.70	MARION LOSCH	GER
1:11.95	LYNN MARSHALL	CAN
1:12.10	DAGMAR STREULE	GER
1:12.10	ROBERTA STERPETTI	ITA
1:12.20	S.SEMINATORE	ITA
1:12.61	ULRIKA SANDMARK	SWE

200 M. I.M.

2:29.92	LYNN MARSHALL	CAN
2:30.48	S. PALMERWHITE	AUS
2:31.01	JOANNE SEYMOUR	GBR
2:31.58	JULIE GINDEN	USA
2:35.42	NATALIE DESCHAMPS	CAN
2:36.18	REBECCA WILLIAMS	NZL
2:36.95	MERETE HOOK	DEN
2:37.40	ROBERTA STERPETTI	ITA
2:37.42	VICKY M. DAVIDSON	USA
2:37.68	LESLEY WEBB	GBR

400 M. I.M.

5:12.06	S. PALMERWHITE	AUS
5:17.90	REBECCA WILLIAMS	NZL
5:18.33	LYNN MARSHALL	CAN
5:31.37	NATALIE DESCHAMPS	CAN
5:41.41	LINDA HEWITT	GBR
5:49.57	SUSAN RICHMOND	USA
5:52.99	M. HIGURE	JPN
5:59.10	CHERYL KUPAN	USA
6:00.19	GLORIA NEMET	USA
6:02.18	P. FENWICK	AUS

WOMEN 30-34

50 M. FREE

28.05	GRACIE GODDARD	USA
28.17	JAYNIE HUDGELL	NZL
28.43	J. COSSTICK	AUS
28.43	SHIRLEY PEACOCK	GBR
29.31	PIA MARTENSSON	SWE
29.34	JUDY WOODWARD	CAN
29.46	JACQUI HUNT	CAN
29.57	KATHY SHARP	USA
29.62	CHRISTINE GREEN	GBR
29.71	A. KILLMIER	AUS

100 M. FREE

1:02.19	GRACIE GODDARD	USA
1:02.52	MICHELE OLIVER	CAN
1:03.04	SHIRLEY PEACOCK	GBR
1:03.05	J. COSSTICK	AUS
1:03.24	JUDY WOODWARD	CAN
1:03.85	S. BRISTOW	AUS
1:04.10	CHRISTINE GREEN	GBR
1:04.77	KATHY SHARP	USA
1:04.79	PIA MARTENSSON	SWE
1:04.88	BETSY HENRY	USA

200 M. FREE

2:14.69	DIANE BRADES	GBR
2:15.81	GRACIE GODDARD	USA
2:18.09	CHRISTINE GREEN	GBR
2:20.67	LYNN FISHEW	USA
2:20.78	JANET KANUKA	CAN
2:21.20	DR. TANJA ENGELS	GER
2:22.62	MELINDA GREIG	USA
2:22.80	DIANA EVANS	USA
2:23.38	MARGUERITE MEYER	USA
2:23.60	MARILYN EARLY	USA

400 M. FREE

4:31.88	BETH KNIGHT	USA
4:47.45	KATHERINE BRANCH	USA
4:54.60	J. COSSTICK	AUS
4:55.70	LIDIA RIBELL	ESP
4:56.21	LESLIE COOPER	USA
4:56.28	P. MARTIN	AUS
4:57.79	MARGUERITE MEYER	USA
4:57.89	KIMBERLY D. ARATA	USA
4:58.72	DIANA EVANS	USA
5:03.12	DONNA NEARY	USA

800 M. FREE

9:17.55	BETH KNIGHT	USA
9:51.71	ESTHER ISEPPI	SUI
10:09.52	J. COSSTICK	AUS
10:39.34	NANCI SIROIS	USA
10:54.40	SUSAN CHAFE	CAN
10:59.28	BARB HARDY	CAN
10:59.96	C.ROTH-LEHMANN	USA
11:01.63	LINDA HARGRAVES	USA
11:06.33	L. HERRIMAN	AUS
11:06.55	K. SMITH	AUS

1500 M. FREE

19:32.19	CATHY NEVILLE	USA
19:40.62	LESLIE COOPER	USA
19:41.58	DIANA EVANS	USA
19:42.98	WANDA BROWN	USA
19:48.31	J. COSSTICK	AUS
20:04.39	HUDDIE MURRAY	USA
20:27.41	SUSAN CHAFE	CAN
20:50.00	LINDA HARGRAVES	USA
21:13.12	ANN DE PRAETER	CAN
21:15.94	BARB HARDY	CAN

50 M. BACK

34.23	JAYNIE HUDGELL	NZL
34.31	MICHELE OLIVER	CAN
34.36	LYDIA NORTON	FRA
34.41	J. COSSTICK	AUS
34.65	A. KILLMIER	AUS
34.89	S. BRISTOW	AUS
35.24	JACKIE LUCKINGS	GBR
35.31	JULIE JOHNSON	CAN
35.31	ANGELA FISHER	GBR
35.40	ANITA ZINGG	SUI

100 M. BACK

1:10.93	MICHELE OLIVER	CAN
1:12.71	DIANE BRADES	GBR
1:13.48	KIMBERLY D. ARATA	USA
1:16.14	ANGELA FISHER	GBR
1:16.42	CLAUDINE DUTIL	CAN
1:16.96	KATHERINE BRANCH	USA
1:17.02	JULIE JOHNSON	CAN
1:17.27	A.MAKINEN	SWE
1:17.57	SUSAN CHAFE	CAN
1:17.76	JACKIE LUCKINGS	GBR

200 M. BACK

2:35.20	MICHELE OLIVER	CAN
2:37.46	DIANE BRADES	GBR
2:43.64	KIMBERLY D. ARATA	USA
2:44.00	KATHERINE BRANCH	USA
2:44.24	LYNN FISHEW	USA
2:44.69	CLAUDINE DUTIL	CAN
2:45.18	JANE WEIR	GBR
2:47.96	MARILYN EARLY	USA
2:48.78	JACKIE LUCKINGS	GBR
2:49.10	ANGELA FISHER	GBR

50 M. BRST

36.73	JACQUI HUNT	CAN
36.75	LISA BENNETT	USA
37.53	LINDA PHILLIPS	GBR
37.70	K. GOTO	JPN
37.74	AMANDA HEATH	GBR
37.74	JEANNE MESSINA	USA
37.76	B.BREISACHER	USA
37.80	CHRISTEL JUSTEN	GER
37.90	BIRGIT HEINIG	GER
38.14	SHIRLEY PEACOCK	GBR

100 M. BRST

1:20.88	B.BREISACHER	USA
1:21.48	LISA BENNETT	USA
1:21.70	H. ISHII	JPN

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

1:21.74 JACQUI HUNT CAN
1:22.70 LINDA PHILLIPS GBR
1:22.75 AMANDA HEATH GBR
1:22.84 ESTHER ISEPPI SUI
1:23.60 ANJA LOUWINGER NED
1:24.09 BENTE BENDTSEN DEN
1:24.16 K. SHIOTAKA JPN
200 M. BRST
2:57.86 M.KATE FERGUSON USA
2:58.41 AMANDA HEATH GBR
2:59.73 LINDA PHILLIPS GBR
3:00.20 B.BREISACHER USA
3:00.31 LISA BENNETT USA
3:04.19 JACQUI HUNT CAN
3:04.64 SHANNON O'BRIEN USA
3:06.05 JEANNE MESSINA USA
3:07.20 K. SHIOTAKA JPN
3:07.51 AVILA RHODES CAN
50 M. FLY
30.92 DIANE BRADES GBR
31.21 MICHELE OLIVER CAN
31.44 MAGDA PAGET ESP
31.59 DONNA NEARY USA
31.75 SHIRLEY PEACOCK GBR
31.89 CLAUDINE DUTIL CAN
31.99 JAYNIE HUDGELL NZL
31.99 MELINDA MANN USA
32.01 SUSAN CHAFE CAN
32.10 D.SCHIAVON ITA
100 M. FLY
1:08.21 DIANE BRADES GBR
1:09.28 MICHELE OLIVER CAN
1:10.39 CATHY NEVILLE USA
1:10.62 JACKIE LUCKINGS GBR
1:10.77 SUSAN CHAFE CAN
1:11.48 KIMBERLY D. ARATA USA
1:12.78 ESTHER ISEPPI SUI
1:12.91 LESLIE COOPER USA
1:13.00 CLAUDINE DUTIL CAN
1:13.41 JEAN MARCOTTE CAN
200 M. FLY
2:32.49 CATHY NEVILLE USA
2:33.04 DIANE BRADES GBR
2:39.36 SUSAN CHAFE CAN
2:42.08 JACKIE LUCKINGS GBR
2:45.41 CLAUDINE DUTIL CAN
2:47.33 MICHELE OLIVER CAN
2:47.72 HUDDIE MURRAY USA
2:50.48 LINDA PHILLIPS GBR
2:52.50 D. RENNIE AUS
2:54.09 DEBRA BIDDLE GBR
100 M. I.M.
1:11.96 JAYNIE HUDGELL NZL
1:12.65 DONNA NEARY USA
1:12.77 MICHELE OLIVER CAN
1:12.97 J. COSSTICK AUS
1:13.83 LISA BENNETT USA
1:14.06 CLAUDINE DUTIL CAN
1:14.67 JUDY WOODWARD CAN
1:14.79 CHRISTINE GREEN GBR
1:14.86 CATHY NEVILLE USA
1:14.90 ANITA ZINGG SUI
200 M. I.M.
2:35.23 DIANE BRADES GBR
2:36.96 MICHELE OLIVER CAN
2:39.44 DEBORAH CAIN USA
2:39.64 KIMBERLY D. ARATA USA
2:40.26 J. COSSTICK AUS
2:40.34 CHRISTINE GREEN GBR
2:40.55 LYNN FISHEW USA
2:42.15 JUDY WOODWARD CAN
2:43.08 CLAUDINE DUTIL CAN
2:43.80 FRANCES CROUCH GBR
400 M. I.M.
5:26.80 DIANE BRADES GBR
5:34.82 CATHY NEVILLE USA
5:41.53 KIMBERLY D. ARATA USA
5:41.70 J. COSSTICK AUS
5:48.04 DIANA EVANS USA
5:49.03 LESLIE J HENSHAW USA

5:53.64 JUDI NORTON USA
5:54.19 CLAUDINE DUTIL CAN
6:00.51 JULIE JOHNSON CAN
6:02.58 SHERYL KLECKNER CAN

****
WOMEN 35-39
****
50 M. FREE
28.80 JACKI HIRSTY USA
29.59 BETSY HOBBS USA
29.61 K.TREBESIDER USA
29.70 MARION KRAUSE GER
29.93 LESLIE OSBORNE USA
30.00 KARIN MILGER GER
30.35 RUTH THOMSON GBR
30.37 C. CRUTE AUS
30.43 DANIELLE OGIER USA
30.45 JANE HARPER USA
100 M. FREE
1:02.63 JACKI HIRSTY USA
1:04.13 DANIELLE OGIER USA
1:05.02 BETH BRENNER USA
1:05.71 K.TREBESIDER USA
1:07.59 LORI WYLIE CAN
1:07.68 TERRI KING USA
1:07.89 RUTH THOMSON GBR
1:07.90 L. WATSON AUS
1:08.38 JOAN WHEELER GBR
1:08.65 E. VINES AUS
200 M. FREE
2:18.64 DANIELLE OGIER USA
2:20.61 JACKI HIRSTY USA
2:25.77 TERRI M. KING USA
2:26.90 BETH BRENNER USA
2:27.20 K.TREBESINER USA
2:27.25 LORI WYLIE CAN
2:29.39 V. CLEARY AUS
2:30.84 SUSI CHANDLER USA
2:30.86 ANN DE PRAETER CAN
2:32.98 JOAN WHEELER GBR
400 M. FREE
4:51.04 DANIELLE OGIER USA
4:52.58 JACKI HIRSTY USA
4:58.08 TERRI KING USA
5:09.83 K.TREBESIDER USA
5:13.07 CATHY MORRA USA
5:15.37 SUSI CHANDLER USA
5:17.31 ANN DE PRAETER CAN
5:18.51 JOANNE BOWSER USA
5:25.50 LINDA SULZBACH USA
5:31.44 K. GIBSON AUS
800 M. FREE
10:11.87 DANIELLE OGIER USA
10:19.70 L. WATSON AUS
10:38.82 K.TREBESIDER USA
10:42.00 LORI WYLIE CAN
10:43.96 SUSI CHANDLER USA
10:57.01 M. WILBY AUS
10:58.55 ANNE SULLIVAN USA
11:02.29 ANN DE PRAETER CAN
11:04.90 JOANNE BOWSER USA
11:07.95 F.CONSTANTIN SUI
1500 M. FREE
19:23.56 DANIELLE OGIER USA
20:14.69 SHIRLEY LOFTUS USA
20:15.43 K.TREBESIDER USA
20:28.68 LORI WYLIE CAN
20:37.40 SUSI CHANDLER USA
20:41.75 ANN DE PRAETER CAN
20:48.78 JOANNE BOWSER USA
21:14.33 DEBBIE WILSON USA
21:41.27 M. WILBY AUS
21:49.80 GAIL KOLBE USA
50 M. BACK
33.39 GLENDA BIDDLE NZL
33.53 PENNY NOYES USA
34.43 JOAN PFINSGRAFF USA
34.83 MARIANNE LEEUWEN NED
35.11 ANNE CORK GBR

35.40 C SHIGAKI-IWAMOTO USA
35.55 JAN PESAVENTO USA
35.72 CARLA YOUNG CAN
35.92 DENISE CARR GBR
36.40 ANGELIKA NIEMANN GER
100 M. BACK
1:11.40 GLENDA BIDDLE NZL
1:14.30 JOAN PFINSGRAFF USA
1:14.76 PENNY NOYES USA
1:15.60 ANNE CORK GBR
1:16.38 MARIANNE LEEUWEN NED
1:16.42 JAN PESAVENTO USA
1:16.73 BENEDICTE DUPREZ FRA
1:17.42 C SHIGAKI-IWAMOTO USA
1:18.44 DENISE CARR GBR
1:19.50 J. BARANYI HUN
200 M. BACK
2:37.04 GLENDA BIDDLE NZL
2:44.33 ANNE CORK GBR
2:48.31 ANNE SULLIVAN USA
2:51.01 TERRI M. KING USA
2:51.04 C SHIGAKI-IWAMOTO USA
2:51.16 ANN DE PRAETER CAN
2:51.77 DENISE CARR GBR
2:54.64 LORI WYLIE CAN
2:57.26 CYNTHIA MALTRY USA
3:00.00 J. MURRAY AUS
50 M. BRST
38.19 JULIE LOWE GBR
38.21 GILLIAN CACKETT GBR
38.40 CHRISTINE ELSNER GER
38.58 RUTH THOMSON GBR
38.80 REGULA STEIGER SUI
38.85 SUE CHENIER CAN
38.97 C. CRUTE AUS
39.10 ANNE WRAIGHT GBR
39.10 DANIELLE OGIER USA
39.50 K. CSAPO HUN
100 M. BRST
1:22.42 GAYLE BENTY USA
1:23.58 DANIELLE OGIER USA
1:24.12 GILLIAN CACKETT GBR
1:24.25 K. GIBSON AUS
1:25.05 JULIE LOWE GBR
1:25.79 REGULA STEIGER SUI
1:25.90 K. CSAPO HUN
1:26.85 TERRI KING USA
1:27.38 URSULA KLOSE GER
1:27.64 ANNE WRAIGHT GBR
200 M. BRST
3:00.80 GILLIAN CACKETT GBR
3:05.80 DANIELLE OGIER USA
3:08.92 C SHIGAKI-IWAMOTO USA
3:09.25 SUSI CHANDLER USA
3:13.27 SUE CHENIER CAN
3:14.91 DEBORAH ATTRILL NZL
3:14.94 JUDY WESTON NZL
3:15.74 CHERYL BLAY CAN
3:18.28 ANNE WRAIGHT GBR
3:19.45 PAMELA MEDHURST NZL
50 M. FLY
32.03 PENNY NOYES USA
33.05 RUTH THOMSON GBR
33.05 K.TREBESIDER USA
33.78 GLENDA BIDDLE NZL
33.84 SUSI CHANDLER USA
33.86 C.NIEUWENHUIS NED
33.99 MARY A. HAMILTON USA
34.07 L. WATSON AUS
34.34 JANE HARPER USA
34.36 S.DE LA RONDE CAN
100 M. FLY
1:14.59 SUSI CHANDLER USA
1:15.39 K.TREBESIDER USA
1:16.26 CATHY MORRA USA
1:16.38 LORI WYLIE CAN
1:16.55 JOAN WHEELER GBR
1:17.96 JAN PESAVENTO USA
1:19.63 J.SIMPSON GBR
1:19.90 ANNE CORK GBR

1:20.18 LOUISE C STACY USA
1:20.61 SANDRA BRAY NZL
200 M. FLY
2:49.20 LORI WYLIE CAN
2:50.70 SUSI CHANDLER USA
2:52.52 TERRI M. KING USA
2:57.57 ANN DE PRAETER CAN
2:59.65 GILLIAN CACKETT GBR
3:00.24 JAN PESAVENTO USA
3:03.52 K.TREBESIDER USA
3:04.77 CARLA HENSEN NED
3:05.05 ANNE CORK GBR
3:14.45 J.SIMPSON GBR
100 M. I.M.
1:13.70 GLENDA BIDDLE NZL
1:14.87 BETH BRENNER USA
1:14.91 DANIELLE OGIER USA
1:16.12 C SHIGAKI-IWAMOTO USA
1:16.28 LESLIE OSBORNE USA
1:16.34 JAN PESAVENTO USA
1:17.13 RUTH THOMSON GBR
1:17.50 KARIN MILGER GER
1:17.61 MARY A. HAMILTON USA
1:17.76 CYNTHIA MALTRY USA
200 M. I.M.
2:42.44 JOAN PFINSGRAFF USA
2:42.65 DANIELLE OGIER USA
2:43.47 GLENDA BIDDLE NZL
2:44.72 TERRI KING USA
2:47.48 L. WATSON AUS
2:47.98 JAN PESAVENTO USA
2:48.40 ANNE CORK GBR
2:48.62 CATHY MORRA USA
2:48.70 DENISE CARR GBR
2:49.91 LORI WYLIE CAN
400 M. I.M.
5:44.26 DANIELLE OGIER USA
5:47.10 TERRI KING USA
5:55.28 LORI WYLIE CAN
5:59.69 SUSI CHANDLER USA
6:06.88 ANNE CORK GBR
6:09.97 ANN DE PRAETER CAN
6:13.26 MARILYN AS FINK USA
6:28.41 M. HYNES AUS
6:32.97 LESLIE OSBORNE USA
6:53.00 L. SHARPE AUS

****
WOMEN 40-44
****
50 M. FREE
29.93 S.PLATT-ROGERS GBR
30.00 M. PATOH HUN
30.22 CONNIE BOER-BUYS NED
30.63 ROBIN RUSSEL CAN
30.69 BARBARA G. DUNBAR USA
30.70 CLAIRE SENECAL CAN
30.91 PATTY THOMPSON CAN
30.94 BERNADETTE RAE NZL
30.99 J. SUNDERLANR AUS
31.00 BRIGITTE MERTEN GER
100 M. FREE
1:06.32 BARBARA G. DUNBAR USA
1:06.57 SANDRA O'NEIL GBR
1:06.76 S.PLATT-ROGERS GBR
1:06.88 CORRIE DIXON GBR
1:07.20 CONNIE BOER-BUYS NED
1:08.06 PATTY THOMPSON CAN
1:08.30 BERNADETTE RAE NZL
1:09.06 LINDSAY POWELL GBR
1:09.14 S. AKABOSHI JPN
1:09.34 ELE PINFOLD CAN
200 M. FREE
2:22.41 CORRIE DIXON GBR
2:22.46 BARBARA G. DUNBAR USA
2:24.51 SANDRA O'NEIL GBR
2:33.13 ELE PINFOLD CAN
2:33.25 M. RAGLASS AUS
2:33.56 PATTY THOMPSON CAN
2:34.03 BERNADETTE RAE NZL

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

2:34.56	G. CORLIS	AUS
2:35.34	SUSAN GUSTAVISON	CAN
2:35.44	BRIGITTE MERTEN	GER

400 M. FREE

4:53.28	BARBARA G DUNBAR	USA
5:05.71	CORRIE DIXON	NED
5:20.42	M. RAGLASS	AUS
5:24.35	MIREILLE RICHTER	SUI
5:25.10	KATHRINE CASEY	USA
5:27.45	PATTY THOMPSON	CAN
5:27.74	JUDY LEE	USA
5:28.76	SUZANNE RAGUE	USA
5:30.52	SUSAN GUSTAVISON	CAN
5:32.95	ELE PINFOLD	CAN

800 M. FREE

10:11.88	BARBARA G DUNBAR	USA
10:24.45	CORRIE DIXON	NED
10:49.81	SANDRA O'NEIL	GBR
10:53.89	MIREILLE RICHTER	SUI
11:18.89	ANN SVANSON	USA
11:27.20	PATTY THOMPSON	CAN
11:29.63	SUSAN GUSTAVISON	CAN
11:35.86	JUDY LEE	USA
11:38.02	SUZANNE RAGUE	USA
11:56.51	G. CORLIS	AUS

1500 M. FREE

19:00.81	BARBARA G DUNBAR	USA
21:13.85	KATHRINE CASEY	USA
21:31.63	PATTY THOMPSON	CAN
21:32.96	SUSAN GUSTAVISON	CAN
21:40.72	PAT JACKSON	GBR
21:49.59	ANN SVANSON	USA
22:59.50	ANNE DARCY	USA
24:21.06	SANDRA CATHEY	USA
24:26.29	LAURA CALWELL	USA
24:27.66	K. COX	AUS

50 M. BACK

33.85	S.PLATT-ROGERS	GBR
35.40	MARTINA ABRESCH	GER
35.68	SANDRA O'NEIL	GBR
35.95	T. HAYASHI	JPN
36.10	M. PATOH	HUN
36.51	T. NAKARARA	JPN
36.58	KATHLEEN PAVIER	GBR
37.30	STEFFI SOLLNER	GER
37.30	BRIGITTE MERTEN	GER
37.35	JULIE CORMAN	USA

100 M. BACK

1:14.02	S.PLATT-ROGERS	GBR
1:16.51	SANDRA O'NEIL	GBR
1:20.84	JULIE CORMAN	USA
1:21.53	KATHLEEN PAVIER	GBR
1:21.88	BARBARA G DUNBAR	USA
1:22.39	BRIGITTA BJORK	SWE
1:23.69	JERIANNE DONNELLY	USA
1:25.00	ELE PINFOLD	CAN
1:25.37	PAMELA RUSSELL	GBR
1:25.59	JEANNIE MITCHELL	USA

200 M. BACK

2:45.34	SANDRA O'NEIL	GBR
2:53.13	JULIE CORMAN	USA
2:57.95	G. CORLIS	AUS
2:58.81	BARBARA G. DUNBAR	USA
2:59.96	STEPHANIE WALSH	USA
3:02.79	JERIANNE DONNELLY	USA
3:03.66	SUSAN CASE	USA
3:04.47	ELE PINFOLD	CAN
3:06.86	GINGER PIERSON	USA
3:07.44	SUSAN GUSTAVISON	CAN

50 M. BRST

38.10	CHRISTIANE HEEREN	GER
39.53	SANDRA O'NEIL	GBR
39.60	BRIGITTE MERTEN	GER
39.74	GINGER PIERSON	USA
39.90	HEIDI MERTEN	GER
39.97	KATHRINE CASEY	USA
40.10	MARTINA KRAUSE	GER
40.18	C.KINGSBEER	NZL
40.27	K. HIROSE	JPN
40.55	P.HARRINGTON	GBR

100 M. BRST

1:24.43	CHRISTIANE HEEREN	GER
1:27.20	GINGER PIERSON	USA
1:27.85	P.HARRINGTON	GBR
1:28.12	JETTE LORICH	DEN
1:28.40	BARBARA G DUNBAR	USA
1:30.07	C.KINGSBEER	NZL
1:30.30	KATHRINE CASEY	USA
1:30.30	HEIDI MERTEN	GER
1:30.56	K. HIROSE	JPN
1:30.69	M.ZAMBON	CAN

200 M. BRST

3:06.96	GINGER PIERSON	USA
3:08.14	P.HARRINGTON	GBR
3:09.14	SUSAN MAGNALL	GBR
3:10.42	BARBARA G DUNBAR	USA
3:15.11	KATHRINE CASEY	USA
3:16.33	STEPHANIE WALSH	USA
3:16.45	M.ZAMBON	CAN
3:17.84	J. ATTERBURY	AUS
3:18.11	PATRICIA JACKSON	GBR
3:18.20	MIREILLE RICHTER	SUI

50 M. FLY

32.08	S.PLATT-ROGERS	GBR
32.44	CONNIE BOER-BUYS	NED
33.31	BARBARA G. DUNBAR	USA
34.57	JAMIE STEWART	USA
35.09	BRIGITTE MERTEN	GER
35.19	CLAIRE SENECAL	CAN
35.50	FRITZI FEUERTEIN	GER
35.60	Y. KADOSAKA	JPN
35.60	ANKE KLATT	GER
35.68	PATTY THOMPSON	CAN

100 M. FLY

1:11.56	BARBARA G. DUNBAR	USA
1:13.42	CORRIE DIXON	GBR
1:21.58	PATRICIA JACKSON	GBR
1:23.04	GINGER PIERSON	USA
1:24.11	JAMIE STEWART	USA
1:24.43	KRISTY KING	USA
1:25.55	BARBARA HODGES	CAN
1:26.03	SANDI ROUSSEAU	USA
1:26.75	CATHY MANCINO	USA
1:27.00	PATTY THOMPSON	CAN

200 M. FLY

2:38.29	BARBARA G. DUNBAR	USA
2:39.35	CORRIE DIXON	GBR
3:01.01	SUSAN SCHAFFER	USA
3:02.52	CATHY MANCINO	USA
3:05.91	GINGER PIERSON	USA
3:08.75	PATRICIA JACKSON	GBR
3:18.27	BARBARA HODGES	CAN
3:19.16	EDITH JACOBSEN	USA
3:24.85	JAMIE STEWART	USA
3:27.11	M. AKITA	JPN

100 M. I.M.

1:15.51	SANDRA O'NEIL	GBR
1:17.13	BRIGITTE MERTEN	GER
1:18.00	MARTINA ABRESCH	GER
1:18.14	BARBARA G DUNBAR	USA
1:18.83	CHRISTIANE HEEREN	GER
1:20.92	PATTY THOMPSON	CAN
1:21.89	K. STEER	AUS
1:21.90	ANNEROSE TROBISCH	GER
1:22.40	CAROL FELLOWS	GBR
1:22.41	MARGARETA RAINER	SWE

200 M. I.M.

2:44.49	BARBARA G DUNBAR	USA
2:44.85	SANDRA O'NEIL	GBR
2:56.22	STEPHANIE WALSH	USA
2:59.26	PATRICIA JACKSON	GBR
3:00.35	GINGER PIERSON	USA
3:01.23	PATTY THOMPSON	CAN
3:02.01	KATHRINE CASEY	USA
3:05.91	SUSAN GUSTAVISON	CAN
3:07.68	CATHERINE BROOKS	USA
3:08.23	BARBARA HODGES	CAN

400 M. I.M.

5:42.95	BARBARA G DUNBAR	USA
6:22.33	PAT JACKSON	GBR
6:25.03	GINGER PIERSON	USA
6:27.88	CATHY MANCINO	USA
6:39.11	CATHERINE BROOKS	USA
6:42.73	PATTY THOMPSON	CAN
6:47.69	SUSAN CASE	USA
6:49.54	SANDRA CATHEY	USA
6:50.33	EDITH JACOBSEN	USA
6:51.32	SALLY BRUNSON	USA

********** WOMEN 45-49 **********

50 M. FREE

30.81	JUDY WILSON	GBR
31.55	J. THOMASSON	AUS
31.69	JUDY REED	USA
31.86	NANCY J. RIDOUT	USA
32.22	C. FLEMING	AUS
32.35	A.HELANDER	SWE
32.50	FRMTRAUD BERNT	GER
32.60	Z. KOVACS	HUN
32.80	NANCY L. BREEN	USA
33.12	A. MAEDA	JPN

100 M. FREE

1:09.37	JUDY WILSON	GBR
1:10.50	C. FLEMING	AUS
1:12.33	JUDY REED	USA
1:12.41	A.HELANDER	SWE
1:12.60	NANCY J. RIDOUT	USA
1:13.63	JUDITH BERKEL	NED
1:15.55	KATHY HYDE	NZL
1:15.99	S. KAWADA	JPN
1:16.42	DIANE FORD	GBR
1:16.55	PENNY WEBSTER	GBR

200 M. FREE

2:37.62	JUDY WILSON	GBR
2:39.39	C. FLEMING	AUS
2:39.40	NANCY J. RIDOUT	USA
2:44.10	NANCY L. BREEN	USA
2:45.03	JUDITH BERKEL	NED
2:45.70	MARY CHENG	USA
2:46.83	PENNY WEBSTER	GBR
2:48.71	BARBARA FRID	USA
2:51.68	CAROLYN KENT	USA
2:54.10	ALISON LEACH	NZL

400 M. FREE

5:08.62	ARDETH MUELLER	USA
5:32.49	C. FLEMING	AUS
5:46.29	NANCY J. RIDOUT	USA
5:46.83	PENNY WEBSTER	GBR
5:47.68	BARBARA FRID	USA
5:48.07	M. MCINTOSH	AUS
5:50.41	PAT MALEY	USA
5:50.68	MARY CHENG	USA
6:00.69	ELAINE BROMWICH	USA
6:08.97	BARBARA BUKOWSKI	CAN
6:08.97	ALISON LEACH	NZL

800 M. FREE

11:47.92	PAT MALEY	USA
11:48.66	BARBARA FRID	USA
11:51.01	J. THOMASSON	AUS
12:12.60	MARY POHLMAN	USA
12:29.23	ELAINE BROMWICH	USA
12:34.97	BARBARA BUKOWSKI	CAN
13:14.55	ANN URQUHART	CAN
13:18.63	MARINA PLA	CAN
13:21.89	H. BRUCE	AUS
13:27.10	E. BURCH	AUS

1500 M. FREE

22:18.64	PAT MALEY	USA
22:59.46	MARY CHENG	USA
23:35.44	BARBARA BUKOWSKI	CAN
24:29.43	C. CLARKE	AUS
24:49.67	ANN URQUHART	CAN
25:25.61	CHARLENE BURKE	USA
25:39.01	MARINA PLA	CAN
26:20.35	E.MCMILLIN	CAN
26:24.65	E. BURCH	AUS
27:01.28	CAROL SING	USA

50 M. BACK

36.35	H. SATO	JPN
37.33	C. MUNNS	AUS
37.50	GISELA WINTER	GER
39.32	ROTRAUD PALMER	GBR
39.33	J. THOMASSON	AUS
39.52	MARY POHLMAN	USA
39.53	KRISTEN HANSEN	DEN
39.68	JUDITH BERKEL	NED
40.25	ANNE WILSON	NZL
40.25	PAMELA PITCHER	GBR

100 M. BACK

1:23.10	M. EGERVARY	HUN
1:24.65	JUDITH BERKEL	NED
1:25.66	MARY POHLMAN	USA
1:27.40	KRISTEN HANSEN	DEN
1:28.00	SARAH L BROUGHER	USA
1:28.30	ANNE WILSON	NZL
1:28.37	E. FLEIG	AUS
1:28.61	A.HELANDER	SWE
1:29.04	PETRA HEWELOKE	GER
1:29.14	PAMELA PITCHER	GBR

200 M. BACK

3:02.65	MARY POHLMAN	USA
3:02.78	ARDETH MUELLER	USA
3:04.05	C.MARTIN-DYE	GBR
3:10.28	ROTRAUD PALMER	GBR
3:13.75	ANNE WILSON	NZL
3:19.37	BARBARA FRID	USA
3:20.09	K. ITO	JPN
3:21.62	JANICE NAYLOR	GBR
3:22.33	SUZY CARLSON	USA
3:25.96	H. SHIBATA	JPN

50 M. BRST

38.67	ELAINE BROMWICH	USA
38.80	GERHILD ESSER	GER
39.73	BARBRO FLODSTROM	SWE
39.85	ERNA VAHRMEIJER	NED
40.30	MONIKA SENFTLEBEN	GER
40.55	ROTRAUD PALMER	GBR
40.70	VLASTA OEHL	GER
41.50	USCHI BONGARTZ	GER
41.90	RUFINA VIDAL	ESP
42.18	BARBARA FRID	USA

100 M. BRST

1:25.20	ELAINE BROMWICH	USA
1:27.70	ERNA VAHRMEIJER	NED
1:27.97	BARBRO FLODSTROM	SWE
1:29.67	ROTRAUD PALMER	GBR
1:30.18	DIANE FORD	GBR
1:30.51	MONIKA SENFTLEBEN	GER
1:30.86	RUFINA VIDAL	ESP
1:32.40	VLASTA OEHL	GER
1:34.16	BARBARA FRID	USA
1:34.40	MONIKA WARNUSZ	GER

200 M. BRST

3:09.73	ELAINE BROMWICH	USA
3:11.88	ERNA VAHRMEIJER	NED
3:23.65	C. MUNNS	AUS
3:26.49	BETSY DURRANT	USA
3:31.20	MARY LOU WOOD	CAN
3:31.30	J. THOMASSON	AUS
3:32.47	Y. SHINOHARA	JPN
3:32.58	E. FLEIG	AUS
3:33.00	MARGHERITA MORO	ITA
3:36.44	V. LYNCH	AUS

50 M. FLY

30.60	MONIKA SENFTLEBEN	GER
33.44	JUDY WILSON	GBR
33.49	GLENDA ADAMS	GBR
35.18	KATHY HYDE	NZL
35.55	JUDY REED	USA
35.80	M. EGERVARY	HUN
35.91	BARB HOELLEN	USA
35.91	NANCY L. BREEN	USA
36.05	B. LUSCOMBE	AUS
36.06	J. THOMASSON	AUS

100 M. FLY

1:16.38	ARDETH MUELLER	USA
1:16.83	GLENDA ADAMS	GBR
1:17.67	JUDY WILSON	GBR

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

1:24.72	B. LUSCOMBE	AUS	2:50.11	BETSY JORDAN	USA	43.68	BARBEL HUNOLD	GER	3:30.96	CEIL BLACKWELL	USA
1:24.91	E. FLEIG	AUS	2:50.95	CHARLOTTE JENKINS	USA	43.81	K. YAMADA	JPN	3:31.22	S. YAMAZAKI	JPN
1:25.07	T. ASAHI	JPN	2:54.27	ANGELA KONIG	USA	43.92	K. KAJIHARA	JPN	3:31.99	BETH WHITTALL	CAN
1:26.97	NANCY RIDOUT	USA	2:55.70	MARGA SCHULZE	GER	44.00	M.STOLTE	GER	400 M. I.M.		
1:27.50	KATHY HYDE	NZL	2:57.00	LINDA MCPHERSON	CAN	44.30	GISELA SCHWARE	GER	6:38.62	BETSY JORDAN	USA
1:28.11	ERNA VAHRMEIJER	NED	2:57.52	P. HUTCHINGS	AUS	44.30	MONIKA WOLFERT	GER	6:59.56	JAYNE LAMBKE	USA
1:32.60	ELAINE BROMWICH	USA	2:59.75	K. HAMADA	JPN	100 M. BRST			7:00.42	BRENDA WALKER	GBR
200 M. FLY			3:00.00	SANDRA PIOPPI	ITA	1:29.19	JOANN LEILICH	USA	7:03.61	BARBARA ZAREMSKI	USA
2:47.35	ARDETH MUELLER	USA	400 M. FREE			1:33.77	LIS GLASDAM	DEN	7:05.38	S. UEHARA	JPN
3:09.91	GLENDA ADAMS	GBR	5:42.78	JAYNE LAMBKE	USA	1:34.72	K. YAMADA	JPN	7:11.73	ROBERTA BOBERSKI	USA
3:13.15	CAROLYN KENT	USA	5:53.30	LINDA MCPHERSON	CAN	1:37.30	K. KAJIHARA	JPN	7:18.26	SUSAN RITTENHOUSE	USA
3:22.03	ELAINE BROMWICH	GBR	5:57.48	BETSY JORDAN	USA	1:38.00	MONIKA WOLFERT	GER	7:22.18	MAE WALDIE	CAN
3:24.18	T. ASAHI	JPN	6:08.89	SUSAN BLAKE	USA	1:38.40	M. AZUMA	JPN	7:23.24	BETH WHITTALL	CAN
3:31.35	MARGARET GROKE	GBR	6:14.55	CHARLOTTE JENKINS	USA	1:38.80	K. TATSUKOSHI	JPN	7:23.91	K. KOYAMA	JPN
3:38.37	E. BURCH	AUS	6:17.12	JEANNE LITTLE	USA	1:38.83	Y. SAKAGAMI	JPN			
3:47.19	J. WILLIAMS	AUS	6:27.43	HELI PAALOSALO	SWE	1:38.90	KARIN MEHNERT	GER	**********		
3:48.58	PAT MALEY	USA	6:28.95	NANCELYN ROSS	CAN	1:39.43	R. HENZE	AUS	WOMEN 55-59		
4:01.24	C. TAKAI	JPN	6:29.85	JUDY PARRETT	CAN	200 M. BRST			**********		
100 M. I.M.			6:30.59	SUSAN RITTENHOUSE	USA	3:12.61	JOANN LEILICH	USA	50 M. FREE		
1:18.43	GLENDA ADAMS	GBR	800 M. FREE			3:17.22	DOROTHY BURKE	USA	32.54	JAYNE BRUNER	USA
1:20.66	ERNA VAHRMEIJER	NED	12:02.81	BETSY JORDAN	USA	3:30.01	M. AZUMA	JPN	34.12	LOTTIE GEURTS	NED
1:21.75	J. THOMASSON	AUS	12:19.25	LINDA MCPHERSON	CAN	3:30.85	R. HENZE	AUS	34.40	ROXANNE MOTTER	USA
1:22.10	I. HIKADE	HUN	12:38.15	ANN McDONNELL	USA	3:33.20	K. KAJIHARA	JPN	34.50	JANE ASHER	GBR
1:22.14	NANCY L. BREEN	USA	12:38.51	BRENDA WALKER	GBR	3:35.43	T. FUJIEDA	JPN	35.00	URSULA FROHLICH	GER
1:22.49	JUDITH BERKEL	NED	13:01.06	S. UEHARA	JPN	3:39.55	ANNETTE FOWLER	NZL	35.15	H. SATO	JPN
1:22.70	GISELA WINTER	GER	13:03.56	BARBARA ZAREMSKI	USA	3:40.30	JOHNNIE DETRICK	USA	35.96	JANET LAMOTT	USA
1:22.90	GERHILD ESSER	GER	13:24.42	BETH WHITTALL	CAN	3:40.51	V. LYNCH	AUS	36.00	ALISON MCKAY	NZL
1:23.60	C. MUNNS	AUS	13:24.70	SUSAN RITTENHOUSE	USA	3:44.20	T. NAMIKI	JPN	36.57	J. GRANZIERA	AUS
1:23.84	ELAINE BROMWICH	GBR	13:34.34	JUDY PARRETT	CAN	50 M. FLY			36.61	BARBARA FENTIMAN	GBR
200 M. I.M.			13:53.94	J. JAMES	AUS	36.90	HAIKE HOLER	GER	100 M. FREE		
3:01.75	NANCY L. BREEN	USA	1500 M. FREE			37.50	LINDA MCPHERSON	CAN	1:13.08	GAYLE BENTY	USA
3:02.08	ELAINE BROMWICH	GBR	24:47.20	ROBERTA BOBERSKI	USA	37.74	K. TATSUKOSHI	JPN	1:16.40	LOTTIE GEURTS	NED
3:05.51	SARAH L BROUGHER	USA	24:55.68	S. UEHARA	JPN	38.02	JUANITA CORREA	USA	1:16.68	RONNIE KAMPHAUSEN	USA
3:05.64	C. MUNNS	AUS	25:08.16	BETH WHITTALL	CAN	38.43	CHARLOTTE JENKINS	USA	1:17.03	ROXANNE MOTTER	USA
3:07.39	RUFINA VIDAL	ESP	25:08.23	BETSY JORDAN	USA	39.12	LUCILLE GRIFFIN	USA	1:18.49	JANET H. LAMOTT	USA
3:09.83	ERNA VAHRMEIJER	NED	25:26.74	JUDY PARRETT	CAN	39.15	JAYNE LAMBKE	USA	1:19.50	URSULA FROHLICH	GER
3:10.51	CAROLYN KENT	USA	26:12.01	C. NEWEY	AUS	39.30	MARGA SCHULZE	GER	1:20.08	DENA MANN	USA
3:10.74	S. YAMAZAKI	JPN	26:47.25	SYLVIA J. GLENN	USA	39.70	GISELA SCHWARE	GER	1:20.18	H. SATO	JPN
3:14.55	JUDY DECKER	USA	26:49.44	JOHNNIE DETRICK	USA	39.73	HELI PAALOSALO	SWE	1:21.22	ALISON MCKAY	NZL
3:18.41	T. ASAHI	JPN	27:02.78	SUE SMITH	NZL	100 M. FLY			1:22.37	JUDIE OLIVER	CAN
400 M. I.M.			27:03.12	J. JAMES	AUS	1:32.28	CHARLOTTE JENKINS	USA	200 M. FREE		
6:39.08	SARAH L BROUGHER	USA	50 M. BACK			1:33.15	JAYNE LAMBKE	USA	2:46.28	RONNIE KAMPHAUSEN	USA
6:44.28	C. MUNNS	AUS	38.16	BETSY JORDAN	USA	1:35.41	JEANNE LITTLE	USA	2:51.87	LOTTIE GEURTS	NED
6:48.06	CAROLYN KENT	USA	38.52	CORRIE KREIKAMP	NED	1:38.00	LINDA MCPHERSON	CAN	2:53.35	ROXANNE MOTTER	USA
7:05.58	E. BURCH	AUS	39.65	SYLVIA BRAMHAM	GBR	1:38.45	LIS GLASDAM	DEN	2:54.70	JANET H. LAMOTT	USA
7:24.41	DOREEN FAIRHURST	GBR	40.00	MAE WALDIE	CAN	1:38.51	LUCILLE GRIFFIN	USA	2:57.65	H. SATO	JPN
7:38.35	FLO MASSON	CAN	40.50	Y. OSAKI	JPN	1:39.45	DOROTHY BURKE	USA	3:03.63	JUDIE OLIVER	CAN
7:51.69	J. WILLIAMS	AUS	40.90	HAIKE HOLER	GER	1:39.94	SUSAN RITTENHOUSE	USA	3:05.01	ALISON MCKAY	NZL
7:56.83	H. IKEDA	JPN	41.40	DORIS HANNESEN	GER	1:41.99	S. UEHARA	JPN	3:05.35	CAROLYN LEWIS	CAN
8:06.92	Y. SHIMIZU	JPN	41.50	P. HUTCHINGS	AUS	1:43.00	INGE FISCHER	GER	3:07.01	K. FUJIMOTO	JPN
8:12.19	Y. KOMAZAKI	JPN	41.58	A. KINNAIRD	AUS	200 M. FLY			3:07.66	BARBARA FENTIMAN	GBR
			41.84	MARGA SCHULZE	GER	3:16.34	LINDA MCPHERSON	CAN	400 M. FREE		
**********			100 M. BACK			3:25.38	JAYNE LAMBKE	USA	5:57.67	RONNIE KAMPHAUSEN	USA
WOMEN 50-54			1:24.49	BETSY JORDAN	USA	3:30.57	DOROTHY BURKE	USA	6:00.15	JANET LAMOTT	USA
**********			1:25.04	CORRIE KREIKAMP	NED	3:33.57	LINDSEY LANT	GBR	6:12.17	ROXANNE MOTTER	USA
50 M. FREE			1:28.46	SYLVIA BRAMHAM	GBR	3:35.06	LUCILLE GRIFFIN	USA	6:17.60	H. SATO	JPN
31.88	Y. OSAKI	JPN	1:28.61	BRENDA WALKER	GBR	3:38.47	SUSAN RITTENHOUSE	USA	6:23.82	CAROLYN LEWIS	CAN
32.92	JUANITA CORREA	USA	1:30.16	MAE WALDIE	CAN	3:41.05	JEANNE LITTLE	USA	6:28.55	B. BROOKS	AUS
33.20	LINDA MCPHERSON	CAN	1:30.90	A. KINNAIRD	AUS	3:51.34	JACQUELINE ODLUM	CAN	6:28.80	K. FUJIMOTO	JPN
33.80	KARIN MEHNERT	GER	1:31.28	ANGELA KONIG	USA	3:51.34	ROBERTA BOBERSKI	USA	6:31.28	ANNE MCGUIRE	USA
33.80	HAIKE HOLER	GER	1:33.40	MARGA SCHULZE	GER	3:53.66	M. MASAWA	JPN	6:41.31	ANN M. PISCIOTTA	USA
33.90	MARGA SCHULZE	GER	1:33.98	SUSAN BLAKE	USA	100 M. I.M.			6:44.48	MALCHIA S. OLSHAN	USA
34.51	CHARLOTTE JENKINS	USA	1:34.90	LUCILLE GRIFFIN	USA	1:21.59	Y. OSAKI	JPN	800 M. FREE		
34.57	SYLVIA BRAMHAM	GBR	200 M. BACK			1:27.90	BETSY JORDAN	USA	12:06.29	RONNIE KAMPHAUSEN	USA
34.65	JEANNE LITTLE	USA	3:00.66	BETSY JORDAN	USA	1:28.31	MARGA SCHULZE	GER	12:32.78	JANET H. LAMOTT	USA
34.74	LUCILLE GRIFFIN	USA	3:13.38	SYLVIA BRAMHAM	GBR	1:28.31	HELI PAALOSALO	SWE	12:39.09	ROXANNE MOTTER	USA
100 M. FREE			3:14.64	BRENDA WALKER	GBR	1:30.08	LINDA MCPHERSON	CAN	12:49.36	H. SATO	JPN
1:09.99	Y. OSAKI	JPN	3:18.83	LUCILLE GRIFFIN	USA	1:30.33	K. TATSUKOSHI	JPN	12:58.39	CAROLYN LEWIS	CAN
1:13.54	JAYNE LAMBKE	USA	3:20.13	MAE WALDIE	CAN	1:30.80	HAIKE HOLER	GER	13:09.52	ANNE MCGURIE	USA
1:15.38	LINDA MCPHERSON	CAN	3:22.26	A. KINNAIRD	AUS	1:30.93	VIOLET CLARK	GBR	13:55.51	MALCHIA S. OLSHAN	USA
1:16.50	MARGA SCHULZE	GER	3:22.67	C. NEWEY	AUS	1:31.18	JAYNE LAMBKE	USA	13:56.82	B. BROOKS	AUS
1:16.91	LUCILLE GRIFFIN	USA	3:23.63	ANGELA KONIG	USA	1:31.32	CHARLOTTE JENKINS	USA	14:05.68	K. FUJIMOTO	JPN
1:17.91	ANGELA KONIG	USA	3:26.43	JUDY PARRETT	CAN	200 M. I.M.			14:07.98	ADRIENNE PIPES	USA
1:18.19	JEANNE LITTLE	USA	3:26.75	CEIL BLACKWELL	USA	3:16.04	CHARLOTTE JENKINS	USA	1500 M. FREE		
1:18.24	CHARLOTTE JENKINS	USA	50 M. BRST			3:18.82	BRENDA WALKER	GBR	23:09.49	RONNIE KAMPHAUSEN	USA
1:18.47	HELI PAALOSALO	SWE	40.51	JOANN LEILICH	USA	3:20.30	SUSAN BLAKE	USA	23:19.17	JANET H. LAMOTT	USA
1:18.53	P. HUTCHINGS	AUS	42.20	HELGA KARLISCH	GER	3:23.53	MAE WALDIE	CAN	24:22.98	H. SATO	JPN
200 M. FREE			42.50	INGRID LUNING	GER	3:25.23	BARBARA ZAREMSKI	USA	25:16.35	CAROLYN LEWIS	CAN
2:35.01	Y. OSAKI	JPN	43.20	DORIS THEISSEN	GER	3:28.72	RENATA MARTING	ITA	25:36.45	ANNE MCGUIRE	USA
2:39.51	JAYNE LAMBKE	USA	43.32	LIS GLASDAM	DEN	3:30.23	ROBERTA BOBERSKI	USA	25:57.10	MALCHIA S. OLSHAN	USA

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26:22.62 B. BROOKS AUS
26:44.18 ADRIENNE PIPES USA
26:49.98 K. FUJIMOTO JPN
28:13.34 LOU HOLMWOOD CAN

50 M. BACK

40.37 GRETHE BENDTSEN DEN
40.90 CHRISTA MAIER GER
40.97 JANE ASHER GBR
41.20 ROXANNE MOTTER USA
41.59 M. MCQUADE AUS
41.82 RITA MARKLAND CAN
41.91 JAYNE BRUNER USA
43.03 RONNIE KAMPHAUSEN USA
43.05 JELTJE VAN BERGEN CAN
43.06 JOAN CAMPBELL CAN

100 M. BACK

1:28.46 GRETHE BENDTSEN DEN
1:33.68 ROXANNE MOTTER USA
1:34.11 BEVERLY MYERS USA
1:34.47 ANN CHAMP USA
1:34.80 RONNIE KAMPHAUSEN USA
1:35.26 JELTJE VAN BERGEN CAN
1:35.41 D. WANGEL AUS
1:36.80 JOAN CAMPBELL CAN
1:37.94 ANNIE DE VOS NED
1:38.10 IRMGARD NIX GER

200 M. BACK

3:23.87 ANN CHAMP USA
3:24.22 D. WANGEL AUS
3:28.37 ROXANNE MOTTER USA
3:29.99 RONNIE KAMPHAUSEN USA
3:34.66 JAN CLEMENTS NZL
3:37.45 JANET H. LAMOTT USA
3:39.40 CAROLYN LEWIS CAN
3:40.40 LESLEY MASON WARD CAN
3:41.16 MARGARET KNIGHT GBR
3:41.60 M. DE VRIES AUS

50 M. BRST

41.33 FLORA CONNOLLY GBR
42.08 JAYNE BRUNER USA
44.86 ANNE MCGUIRE USA
45.18 JELTJE VAN BERGEN CAN
46.08 S. YONEZAWA JPN
46.20 ANN M. PISCIOTTA USA
46.28 M.WILKINSON GBR
46.30 URSULA FROHLICH GER
46.31 Y. TSUCHIYA JPN
46.86 IRENE HARRIS CAN

100 M. BRST

1:28.13 FLORA CONNOLLY GBR
1:33.77 JAYNE BRUNER USA
1:38.43 JELTJE VAN BERGEN CAN
1:39.08 ANN M. PISCIOTTA USA
1:39.45 S. YONEZAWA JPN
1:39.57 ANNE MCGUIRE USA
1:41.61 JUDIE OLIVER CAN
1:41.67 Y. TSUCHIYA JPN
1:42.36 IRENE HARRIS CAN
1:42.46 LILLY KRON USA

200 M. BRST

3:12.85 FLORA CONNOLLY GBR
3:31.27 JELTJE VAN BERGEN CAN
3:32.96 ANNE MCGUIRE USA
3:35.09 ANN M. PISCIOTTA USA
3:35.54 JUDIE OLIVER CAN
3:37.24 LILLY KRON USA
3:41.59 Y. TSUCHIYA JPN
3:43.39 IRENE HARRIS CAN
3:45.00 M.WILKINSON GBR
3:47.05 JULIA GULYAS CAN

50 M. FLY

38.30 JANE ASHER GBR
38.45 H. SATO JPN
39.02 JAYNE BRUNER USA
39.06 ROXANNE MOTTER USA
39.65 JUDIE OLIVER CAN
40.47 RONNIE KAMPHAUSEN USA
41.01 DORIS KLITZKE USA
42.50 URSULA FROHLICH GER
42.52 JANET LAMOTT USA
42.75 BEVERLY MYERS USA

100 M. FLY

1:30.13 JUDIE OLIVER CAN
1:33.90 JAYNE BRUNER USA
1:35.16 ROXANNE MOTTER USA
1:37.97 ANNE MCGUIRE USA
1:38.75 RONNIE KAMPHAUSEN USA
1:42.02 DORIS KLITZKE USA
1:42.74 Y. TSUCHIYA JPN
1:42.75 JANET LAMOTT USA
1:43.42 ANN M. PISCIOTTA USA
1:45.97 D. WANGEL AUS

200 M. FLY

3:29.37 JUDIE OLIVER CAN
3:31.81 RONNIE KAMPHAUSEN USA
3:34.07 ANNE MCGURIE USA
3:39.19 JANET H. LAMOTT USA
3:40.30 ROXANNE MOTTER USA
3:49.85 ANN M. PISCIOTTA USA
3:51.61 DORIS KLITZKE USA
4:01.40 V. GREEN AUS
4:03.26 S. MCFARLAND AUS
4:09.02 ADRIENNE S. PIPES USA

100 M. I.M.

1:27.15 JAYNE BRUNER USA
1:28.60 JANE ASHER GBR
1:31.44 ROXANNE MOTTER USA
1:32.08 RONNIE KAMPHAUSEN USA
1:32.73 JUDIE OLIVER CAN
1:32.87 BEVERLY MYERS USA
1:33.36 JELTJE VAN BERGEN CAN
1:33.90 LOTTIE GEURTS NED
1:34.30 S. YONEZAWA JPN
1:34.43 JANET LAMOTT USA

200 M. I.M.

3:05.23 FLORA CONNOLLY GBR
3:19.07 JUDIE OLIVER CAN
3:21.50 ROXANNE MOTTER USA
3:25.45 JANET H. LAMOTT USA
3:27.47 ANNE MCGUIRE USA
3:28.47 DORIS KLITZKE USA
3:31.90 ANN M. PISCIOTTA USA
3:32.14 ANNIE DE VOS NED
3:32.98 ELSA METEGER GER
3:33.80 GRETHE BENDTSEN DEN

400 M. I.M.

6:36.03 FLORA CONNOLLY GBR
7:10.93 ANNE MCGUIRE USA
7:11.02 JUDIE OLIVER CAN
7:13.54 JANET H. LAMOTT USA
7:14.90 RONNIE KAMPHAUSEN USA
7:38.65 ANN M. PISCIOTTA USA
7:48.31 LILLY KRON USA
7:57.45 JULIA GULYAS CAN
7:58.32 B. BROOKS AUS
7:58.82 ADRIENNE S. PIPES USA

****

WOMEN 60-64

****

50 M. FREE

37.14 BETTY RUSS USA
37.57 KERSTIN GJORES SWE
37.85 JEAN TROY USA
37.91 GRETHE BENDTSEN DEN
38.30 E. WALLIS AUS
38.40 HILDE KERN GER
38.61 NANCY K. MACBETH USA
38.73 A. SHIMIZU JPN
39.44 JOAN PARNELL CAN
39.59 C. AIBA JPN

100 M. FREE

1:23.85 JEAN TROY USA
1:25.40 E. WALLIS AUS
1:25.67 GRETHE BENDTSEN DEN
1:25.68 BETTY RUSS USA
1:26.39 JUNE KRAUSER USA
1:27.00 HILDE KERN GER
1:27.09 A. SHIMIZU JPN
1:28.10 R. NAEDA JPN
1:29.00 HELGA MAHLKE GER
1:30.40 JOAN PARNELL CAN

200 M. FREE

3:01.04 M. CUNNINGHAM AUS
3:03.93 JEAN TROY USA
3:04.34 E. WALLIS AUS
3:04.97 BETTY RUSS USA
3:05.52 JUNE KRAUSER USA
3:15.83 JOAN PARNELL CAN
3:21.05 BOBBI TURCOTTE USA
3:21.20 BERNIECE GREETH USA
3:23.00 HELGA MAHLKE GER
3:23.94 SUZANNE GRAHAM USA

400 M. FREE

6:06.63 CLARA WALKER USA
6:19.94 JUNE KRAUSER USA
6:22.90 BETTY RUSS USA
6:45.34 JOAN PARNELL CAN
6:56.51 BERNIECE GREETH USA
6:58.94 BOBBI TURCOTTE USA
7:05.24 M. CUNNINGHAM AUS
7:06.93 EDIE GRUENDER USA
7:17.38 ALICE LAWRENCE USA
7:19.36 SUZANNE GRAHAM USA

800 M. FREE

12:21.67 CLARA WALKER USA
13:08.30 JUNE KRAUSER USA
13:12.13 BETTY RUSS USA
13:43.33 JOAN PARNELL CAN
14:05.19 ROBERTA TURCOTTE USA
14:20.91 M. CUNNINGHAM AUS
15:04.64 JOAN MCINTYRE USA
15:18.10 BARBARA OWENS USA
15:20.71 T. SAKAI JPN
15:23.19 H. NAITO JPN

1500 M. FREE

23:28.15 CLARA WALKER USA
24:36.48 JUNE KRAUSER USA
25:01.64 BETTY RUSS USA
26:43.44 ROBERTA TURCOTTE USA
27:35.45 EDIE GRUENDER USA
29:01.27 T. SAKAI JPN
29:12.43 BARBARA OWENS USA
29:16.38 M. CUNNINGHAM AUS
29:19.34 JEANNE OLSEN USA
30:42.61 T. BRYAN AUS

50 M. BACK

40.64 CLARA WALKER USA
41.18 GRETHE BENDTSEN DEN
42.20 JOAN PARNELL CAN
42.53 K. OKA JPN
43.53 KERSTIN GJORES SWE
44.70 EDITH BOHM GER
45.75 A.MARIE NIELSEN DEN
45.89 OLIVE HALE GBR
46.58 BERNIECE GREETH USA
46.66 M. KURASHIGE JPN

100 M. BACK

1:30.25 CLARA WALKER USA
1:30.56 GRETHE BENDTSEN DEN
1:35.33 JOAN PARNELL CAN
1:35.77 K. OKA JPN
1:38.37 OLIVE HALE GBR
1:41.00 KERSTIN GJORES SWE
1:42.76 NANCY K. MACBETH USA
1:43.60 DELLA SEHORN USA
1:44.55 BERNIECE GREETH USA
1:46.09 JUNE KRAUSER USA

200 M. BACK

3:26.05 JOAN PARNELL CAN
3:27.43 K. OKA JPN
3:35.52 NANCY K. MACBETH USA
3:36.27 OLIVE HALE GBR
3:43.89 JUNE KRAUSER USA
3:44.83 DELLA SEHORN USA
3:47.02 BERNIECE GREETH USA
3:47.83 RUTH G. FARNHAM USA
3:48.10 PEGGY KNOWLES USA
3:51.48 E. WALLIS AUS

50 M. BRST

43.30 EDITH BOHM GER
45.39 CAROL TAYLOR USA
45.60 ERIKA LANGE GER
46.43 J. SANSOM AUS
46.52 SYLVIA EISELE CAN
46.66 M. CUNNINGHAM AUS
48.00 JOAN PARNELL CAN
48.50 HELGA MAHLKE GER
49.10 BERNI STULLENBERG GER
49.50 A. HATTORI JPN

100 M. BRST

1:42.89 HELGA MAHLKE GER
1:43.64 CAROL TAYLOR USA
1:43.68 SYLVIA EISELE CAN
1:49.72 GRETHE BENDTSEN DEN
1:50.63 JUNE KRAUSER USA
1:53.44 N. FUKAGAWA JPN
1:54.91 THELMA ROACH CAN
1:55.42 KATHLEEN GRIMMER GBR
1:55.81 I. NOGASKI AUS
1:56.37 MARIANNA HAGAN USA

200 M. BRST

3:45.12 SYLVIA EISELE CAN
3:48.34 CAROL TAYLOR USA
3:52.25 JUNE KRAUSER USA
4:08.52 M. CUNNINGHAM AUS
4:12.53 MARIANNA HAGAN USA
4:13.31 C. DE GROOT AUS
4:16.13 BETTY RUSS USA
4:17.74 S. OGAMI JPN
4:22.80 JOAN CAMPBELL USA
4:22.83 J. BAMFORD AUS

50 M. FLY

43.94 JUNE KRAUSER USA
44.30 M. TANI JPN
44.40 EDITH BOHM GER
45.18 BETTY JANE RUSS USA
45.52 JOAN PARNELL CAN
45.77 EDIE GRUENDER USA
46.00 HILDE KERN GER
47.14 NANCY K. MACBETH USA
47.42 HELGA MAHLKE GER
47.58 R. NAEDA JPN

100 M. FLY

1:35.67 JANET STOBIE GBR
1:37.63 JUNE KRAUSER USA
1:42.90 HILDE KERN GER
1:45.78 EDIE GRUENDER USA
1:46.97 BETTY JANE RUSS USA
1:50.43 SYLVIA EISELE CAN
1:59.40 M. CUNNINGHAM AUS
2:07.70 GAY C. COLLINS USA
2:11.40 C. TSUCHIDA JPN
2:12.51 A. WATANABE JPN

200 M. FLY

3:32.29 JUNE KRAUSER USA
3:42.75 BETTY JANE RUSS USA
3:56.98 SYLVIA EISELE CAN
4:16.70 BARBARA OWENS USA
4:19.80 EDIE GRUENDER USA
4:28.62 MARIANNA HAGAN USA
4:51.78 H.MCGREGOR CAN
4:53.83 T. BRYAN AUS
5:09.40 CECILE GOSSELIN CAN

100 M. I.M.

1:30.15 CLARA WALKER USA
1:34.26 M. CUNNINGHAM AUS
1:37.81 JUNE KRAUSER USA
1:38.41 GRETHE BENDTSEN DEN
1:39.55 NANCY K. MACBETH USA
1:40.18 JOAN PARNELL CAN
1:40.97 BETTY JANE RUSS USA
1:42.21 DELLA SEHORN USA
1:42.30 EDITH BOHM GER
1:42.50 HILDE KERN GER
1:42.50 HELGA MAHLKE GER

200 M. I.M.

3:14.28 CLARA WALKER USA
3:26.17 JUNE KRAUSER USA
3:35.50 NANCY K. MACBETH USA

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3:37.86 BETTY JANE RUSS USA
3:39.59 JOAN PARNELL CAN
3:43.29 DELLA SEHORN USA
3:47.05 BERNIECE GREETH USA
3:48.38 K. OKA JPN
3:58.39 GAY C. COLLINS USA
4:00.60 PRISCILLA LOGAN NZL

400 M. I.M.

7:15.13 JUNE KRAUSER USA
7:39.69 NANCY K. MACBETH USA
7:46.72 BETTY JANE RUSS USA
7:55.28 SYLVIA EISELE CAN
8:00.46 M. CUNNINGHAM AUS
8:05.34 EDIE GRUENDER USA
8:19.68 ALICIA COLEMAN USA
8:22.29 BARBARA OWENS USA
8:28.48 BOBBI TURCOTTE USA
8:36.51 T. BRYAN AUS

****
WOMEN 65-69
****

50 M. FREE

34.92 M. CUNNINGHAM AUS
36.96 PETEY SMITH USA
37.34 CATHERINE KERR CAN
38.03 DOT DONNELLY USA
38.82 FLORENCE CARR USA
40.40 JEANNE MERRYMAN USA
40.50 N. OKI JPN
40.57 M. HOTEHAMA JPN
40.60 AGNES PLISSON FRA
40.74 RUTH H. BAAR USA

100 M. FREE

1:22.79 M. CUNNINGHAM AUS
1:23.36 FLORENCE CARR USA
1:24.34 PETEY SMITH USA
1:27.63 CATHERINE KERR CAN
1:32.29 N. OKI JPN
1:32.34 MARGERY MEYER USA
1:32.57 JEANNE MERRYMAN USA
1:34.49 SHIRLEY ERICKSON USA
1:35.71 AGNES PLISSON FRA
1:36.48 RUTH H. BAAR USA

200 M. FREE

3:02.54 M. CUNNINGHAM AUS
3:05.28 FLORENCE CARR USA
3:07.37 PETEY SMITH USA
3:16.66 DOT DONNELLY USA
3:19.38 JOAN MONAHAN NZL
3:22.60 SHIRLEY ERICKSON USA
3:22.69 CATHERINE KERR CAN
3:24.71 RUTH MORRILL USA
3:30.65 RUTH H. BAAR USA
3:31.12 GRACE ALTUS USA

400 M. FREE

6:25.37 FLORENCE CARR USA
6:41.69 M. CUNNINGHAM AUS
6:57.38 RUTH BILLARD USA
6:57.54 CATHERINE KERR CAN
7:03.81 SHIRLEY ERICKSON USA
7:05.37 JOAN MONAHAN NZL
7:13.57 MARGERY MEYER USA
7:18.82 GRACE ALTUS USA
7:26.12 LOIS NOCHMAN USA
7:32.97 RUTH H. BAAR USA

800 M. FREE

13:35.28 FLORENCE CARR USA
13:58.83 M. CUNNINGHAM AUS
14:57.26 GRACE ALTUS USA
15:13.37 LOIS NOCHMAN USA
15:49.60 B. GRACE AUS
15:53.63 BILLIE BURRILL USA
16:34.15 CLARA SOTAK USA
16:36.68 DORIS PETERS USA
16:41.40 B. STERN AUS
16:45.94 VIRGINA TATE CAN

1500 M. FREE

25:29.12 PETEY SMITH USA
25:48.48 FLORENCE CARR USA
27:04.86 M. CUNNINGHAM AUS
27:48.72 GRACE ALTUS USA
28:18.59 SHIRLEY ERICKSON USA
28:39.74 LOIS NOCHMAN USA
29:39.32 BILLIE BURRILL USA
30:05.40 B. GRACE AUS
30:29.15 NANCY PHILLIPS USA
30:52.23 REGAN KENNER USA

50 M. BACK

46.47 FLORENCE CARR USA
46.67 RUTH BILLARD USA
47.01 M. HOTEHAMA JPN
47.02 DORIS MCEWAN CAN
47.08 BUNNY CEDERLUND USA
47.54 N. OKI JPN
47.89 REGAN KENNER USA
47.95 BETTY CONDON GBR
48.33 JOAN MONAHAN NZL
48.93 JEANNE MERRYMAN USA

100 M. BACK

1:44.27 REGAN KENNER USA
1:44.28 RUTH BILLARD USA
1:45.75 JOAN MONAHAN NZL
1:45.92 CATHERINE KERR CAN
1:46.95 DORIS MCEWAN CAN
1:47.32 KAREN PETERSEN DEN
1:48.76 SHIRLEY ERICKSON USA
1:49.53 ALICIA COLEMAN USA
1:49.77 MARGERY MEYER USA
1:50.98 IRENE ATHANS CAN

200 M. BACK

3:34.87 RUTH BILLARD USA
3:44.40 REGAN KENNER USA
3:46.25 JOAN MONAHAN NZL
3:48.11 CATHERINE KERR CAN
3:51.91 FLORENCE CARR USA
3:58.74 ALICIA COLEMAN USA
3:59.43 BUNNY CEDERLUND USA
4:03.00 NANCY PHILLIPS USA
4:08.96 IRENE ATHANS CAN
4:09.40 MAUREEN STRICHEN NZL

50 M. BRST

48.23 M. CUNNINGHAM AUS
48.68 T. MITA JPN
48.78 AGNES PLISSON FRA
48.85 LIESBETH BURG NED
49.14 ALICIA COLEMAN USA
49.75 REGAN KENNER USA
49.85 JOAN MONAHAN NZL
49.86 MARGARET EVANS GBR
50.42 S. TOYAMA JPN
51.12 FLORENCE CARR USA

100 M. BRST

1:43.59 LIESBETH BURG NED
1:44.22 M. CUNNINGHAM AUS
1:46.82 REGAN KENNER USA
1:46.83 MARGARET EVANS GBR
1:49.80 I. SUZUKI JPN
1:50.26 T. MITA JPN
1:51.09 JOAN MONAHAN NZL
1:51.27 ALICIA COLEMAN USA
1:51.42 AGNES PLISSON FRA
1:52.84 T. YASUOKA JPN

200 M. BRST

3:46.93 MARGARET EVANS GBR
3:48.71 REGAN KENNER USA
3:54.60 M. CUNNINGHAM AUS
3:56.06 LIESBETH BURG NED
3:59.43 ALICIA COLEMAN USA
4:04.78 JOAN MONAHAN NZL
4:06.61 FLORENCE CARR USA
4:08.14 DORIS MCEWAN CAN
4:08.77 IRENE ATHANS CAN
4:10.90 T. MITA JPN

50 M. FLY

43.93 FLORENCE CARR USA
44.27 M. CUNNINGHAM AUS
45.91 CATHERINE KERR CAN
47.57 M. HOTEHAMA JPN
49.97 JEANNE MERRYMAN USA
50.47 S. KUWAYAMA JPN
51.20 AGNES PLISSON FRA
51.21 DIANA SILVA USA
51.32 PETEY SMITH USA
51.36 ALICIA COLEMAN USA

100 M. FLY

1:54.66 M. CUNNINGHAM AUS
1:57.36 FLORENCE CARR USA
2:00.19 LOIS NOCHMAN USA
2:01.10 MARGARET EVANS GBR
2:01.22 K. KUWAYAMA JPN
2:03.60 DIANA SILVA USA
2:04.18 AGNES PLISSON FRA
2:06.09 DOT DONNELLY USA
2:06.94 B. GRACE AUS
2:08.47 JAE HOWELL USA

200 M. FLY

4:13.15 LOIS NOCHMAN USA
4:15.26 MARGARET EVANS GBR
4:45.36 JANE DOUGHERTY USA
4:58.20 E. PRICE AUS
5:32.63 B. STERN AUS
6:03.56 MARJORIE NEWMAN USA
6:14.27 ELFIE STEVENIN USA

100 M. I.M.

1:37.84 FLORENCE CARR USA
1:45.23 DORIS MCEWAN CAN
1:45.25 DOT DONNELLY USA
1:46.46 AGNES PLISSON FRA
1:46.48 M. CUNNINGHAM AUS
1:47.45 ALICIA COLEMAN USA
1:47.87 MARGARET EVANS GBR
1:49.90 JEANNE MERRYMAN USA
1:51.62 SHIRLEY ERICKSON USA
1:52.79 LOIS NOCHMAN USA

200 M. I.M.

3:37.63 FLORENCE CARR USA
3:47.71 MARGARET EVANS GBR
3:52.20 CATHERINE KERR CAN
3:53.82 ALICIA COLEMAN USA
3:55.29 DOT DONNELLY USA
3:59.14 LOIS NOCHMAN USA
4:01.84 AGNES PLISSON FRA
4:06.02 DIANA SILVA USA
4:14.95 NANCY PHILLIPS USA
4:16.55 JAE HOWELL USA

400 M. I.M.

7:55.12 M. CUNNINGHAM AUS
7:57.77 FLORENCE CARR USA
8:13.95 MARGARET EVANS GBR
8:23.09 ALICIA COLEMAN USA
8:32.45 LOIS NOCHMAN USA
8:55.64 DIANA SILVA USA
9:05.44 F. MURATA JPN
9:18.82 GRACE ALTUS USA
9:25.53 B. STERN AUS
9:30.39 E. PRICE AUS

****
WOMEN 70-74
****

50 M. FREE

39.30 GRETE PFANNMULLER GER
42.24 M. DUTTON AUS
43.14 H. KIMOTO JPN
43.40 Y. HASEGAWA JPN
43.52 AUDREY GATHERCOLE GBR
44.04 T. USHIKI JPN
45.00 GERTRUD MEERWALD GER
45.42 JOAN TYLER GBR
45.51 Y.FRISCHHERTZ USA
45.80 H. SANTO JPN

100 M. FREE

1:34.90 H. KIMOTO JPN
1:35.47 GRETE PFANNMULLER GER
1:42.40 Y. HASEGAWA JPN
1:45.36 WILLY VAN RYSEL GBR
1:45.58 B. STERN AUS
1:48.22 ANNE WALKER USA
1:48.70 GERTRUD MEERWALD GER
1:49.66 GERTRUD ZINT USA
1:49.90 EDNA FARRELL NZL
1:51.06 LILLIAN WARREN CAN

200 M. FREE

3:31.80 H. KIMOTO JPN
3:35.10 RITA SIMONTON USA
3:43.12 Y. HASEGAWA JPN
3:49.03 B. STERN AUS
3:55.09 Y.FRISCHHERTZ USA
3:56.03 LILLIAN WARREN CAN
3:56.51 HELEN HUMMER USA
3:58.09 GERTRUD ZINT USA
4:00.52 WILLY VAN RYSEL GBR
4:01.96 H. MORI JPN

400 M. FREE

7:18.54 H. KIMOTO JPN
7:27.27 RITA SIMONTON USA
7:57.04 B. STERN AUS
8:19.79 LILLIAN WARREN CAN
8:24.47 KAY SCHIMPF USA
8:25.99 Y.FRISCHHERTZ USA
8:34.42 GERTRUD ZINT USA
8:46.87 Y. HASEGAWA JPN
8:49.73 H. MORI JPN
8:59.31 N. LEWIS AUS

800 M. FREE

15:19.15 RITA SIMONTON USA
15:41.83 H. KIMOTO JPN
16:14.48 B. STERN AUS
16:42.76 HELEN HUMMER USA
17:03.75 WILLY VAN RYSEL GBR
17:45.24 Y.FRISCHHERTZ USA
17:48.85 GERTRUD ZINT USA
18:23.43 P. RAE AUS
19:08.00 MAXINE CARLSON USA
19:43.77 INGER ANDERSEN DEN

1500 M. FREE

28:29.85 RITA SIMONTON USA
30:53.83 B. STERN AUS
33:38.85 Y.FRISCHHERTZ USA
37:09.80 P. RAE AUS
38:19.33 M. GARTON AUS
44:36.55 FRANCIS BELL USA

50 M. BACK

47.71 WILLY VAN RYSEL GBR
48.10 GRETE PFANNMULLER GER
51.08 B. STERN AUS
52.47 S. KOIZUMI JPN
52.82 ANNE WALKER USA
53.10 GERTRUD JUCHTZER GER
53.42 M. HAMURO JPN
53.57 Y.FRISCHHERTZ USA
54.10 HANNA SEELIGER GER
54.81 EDNA FARRELL NZL

100 M. BACK

1:50.42 WILLY VAN RYSEL GBR
1:51.64 Y.FRISCHHERTZ USA
1:53.92 ANNE WALKER USA
1:55.93 B. STERN AUS
1:56.57 P. RAE AUS
2:01.44 H. KIMOTO JPN
2:03.73 GERTRUD ZINT USA
2:10.10 K. SANTOKU JPN
2:10.70 H.EISFELD-KOHLER GER
2:11.01 N. LEWIS AUS

200 M. BACK

3:53.86 WILLY VAN RYSEL GBR
4:03.07 Y.FRISCHHERTZ USA
4:07.43 ANNE WALKER USA
4:14.29 MERLYN EWBANK USA
4:16.63 B. STERN AUS
4:21.50 GERTRUD ZINT USA
4:37.93 ZADA TAFT USA
4:38.56 K. SANTOKU JPN
4:52.63 MAXINE CARLSON USA
4:56.15 M. GARTON AUS

50 M. BRST

51.70 EVA RAUNER GER
52.70 HILDEGARD MESSING GER
53.91 GERTRUD ZINT USA

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

54.10	AUDREY GATHERCOLE	GBR	400 M. I.M.			2:16.77	L. JOHNSON	AUS	11:56.98	ANNE WILDER	USA
54.39	M. HAMURO	JPN	8:44.01	RITA SIMONTON	USA	2:17.77	JEAN D. DURSTON	USA			
54.82	BETH CAMERON	CAN	9:14.00	GERTRUD ZINT	USA	2:19.48	EVA MULLER	USA	**********		
55.26	VALBORG MOLLER	CAN	9:33.39	B. STERN	AUS	2:32.61	GENEVA KAHRS	USA	WOMEN 80-84		
55.40	GERTRUD MEERWALD	GER	9:56.35	VIOLA THOMPSON	USA	2:32.89	EDITH HANSEN	DEN	**********		
56.40	KATHE GIEREND	GER	9:57.42	KAY SCHIMPF	USA	2:33.01	EDITH HENDRY	USA	50 M. FREE		
57.41	BARBARA BOHM	GER	10:01.25	P. RAE	AUS	2:37.93	LEE HOLM	USA	51.34	JULIA DOLCE	USA
100 M. BRST			10:42.97	MERLYN EWBANK	USA	2:43.20	NELLA GAMENARA	ITA	59.24	DOROTHY HOPKINS	USA
1:54.60	HILDEGARD MESSING	GER	11:42.21	ROSEMARY KARIKER	USA	200 M. BACK			1:01.32	MEREDITH SCANLON	USA
1:56.11	M. HAMURO	JPN				4:10.34	MARIE WICKLUN	USA	1:08.62	E. JONES	AUS
2:01.61	AUDREY GATHERCOLE	GBR	**********			5:32.85	LEE HOLM	USA	1:12.80	GRETE GOTTSCHALK	GER
2:03.26	GERTRUD ZINT	USA	WOMEN 75-79			5:34.18	GENEVA KAHRS	USA	1:16.76	R. HEDGES	AUS
2:03.28	H. KIMOTO	JPN	**********			5:42.85	JANET MESERVEY	USA	1:30.82	M. WILLIAMS	AUS
2:05.51	BETH CAMERON	CAN	50 M. FREE			6:16.40	HILDA BUEL	USA	2:25.44	GRACE HIDDLESON	USA
2:06.19	VALBORG MOLLER	CAN	43.17	H. SUGAYA	JPN	6:32.00	RINA DAVOGLIO	ITA	100 M. FREE		
2:06.81	ELIZABETH PATON	GBR	44.67	U. WADA	JPN	6:36.76	DOREEN MORRIS	USA	1:55.58	JULIA DOLCE	USA
2:10.22	P. RAE	AUS	46.50	NANCY CLARK	USA	8:02.07	J. GORE	AUS	1:59.89	M. WRIGHT	AUS
2:14.97	BARBARA BOHM	GER	47.41	M. SHIGMITSU	JPN	9:18.53	M. CHRISTIAKOFF	AUS	2:11.69	DOROTHY HOPKINS	USA
200 M. BRST			47.90	EDITH HEWITT	GBR	50 M. BRST			2:28.47	MEREDITH SCANLON	USA
4:09.41	M. HAMURO	JPN	48.10	MAXINE O. MERLINO	USA	53.70	EMMI PAULI	GER	2:44.23	A. TAKADA	JPN
4:31.30	ELIZABETH PATON	GBR	49.27	NELLA GAMENARA	ITA	1:00.50	GRETE HARNISCH	GER	200 M. FREE		
4:33.02	GERTRUD ZINT	USA	49.50	GRETE HARNISCH	GER	1:01.24	EDITH HEWITT	GBR	4:45.53	DOROTHY HOPKINS	USA
4:36.48	P. RAE	AUS	49.75	L. JOHNSON	AUS	1:02.00	GERDA SCHUBERT	GER	5:30.89	MEREDITH SCANLON	USA
4:37.36	RITA SIMONTON	USA	52.60	MARIE WICKLUN	USA	1:03.50	LILO LORENZ	GER	6:04.72	A. TAKADA	JPN
4:42.11	VALBORG MOLLER	CAN	100 M. FREE			1:04.60	MAXINE O. MERLINO	USA	400 M. FREE		
4:51.48	B. STERN	AUS	1:42.69	H. SUGAYA	JPN	1:05.60	LIESEL NACHTIGALL	GER	10:07.07	DOROTHY HOPKINS	USA
4:53.82	M. DUTTON	AUS	1:46.64	NANCY CLARK	USA	1:06.00	ANNCHEN REILE	GER	15:24.24	HAZEL BRESSIE	USA
5:01.51	KAY SCHIMPF	USA	1:52.73	EDITH HEWITT	GBR	1:06.43	E. ASAI	JPN	800 M. FREE		
5:09.95	Y.FRISCHHERTZ	USA	1:52.86	JEAN D. DURSTON	USA	1:07.38	LILO BRYCE	CAN	20:48.35	DOROTHY HOPKINS	USA
50 M. FLY			1:59.53	L. JOHNSON	AUS	100 M. BRST			1500 M. FREE		
50.27	M. DUTTON	AUS	2:00.40	NELLA GAMENARA	ITA	2:00.27	EMMI PAULI	GER	40:29.44	DOROTHY HOPKINS	USA
55.20	GERTRUD ZINT	USA	2:04.46	D. NICOL	AUS	2:21.14	JEAN D. DURSTON	USA	50 M. BACK		
55.30	GERTRUD MEERWALD	GER	2:08.20	EMMI PAULI	GER	2:25.70	ANNCHEN REILE	GER	56.53	M. WRIGHT	AUS
56.97	M. HAMURO	JPN	2:16.09	GENEVA KAHRS	USA	2:39.22	HILDA G. BUEL	USA	1:06.60	MEREDITH SCANLON	USA
59.40	HILDEGARD MESSING	GER	2:18.55	EDITH HENDRY	USA	2:47.25	BUZ CATLIN	USA	1:08.06	JULIA DOLCE	USA
59.79	KAY SCHIMPF	USA	200 M. FREE			2:55.94	ANNE WILDER	USA	1:08.74	MADELEINE MILLER	USA
1:01.03	HELEN HUMMER	USA	4:01.75	NANCY CLARK	USA	2:59.24	D. NICOL	AUS	1:10.50	GRETE GOTTSCHALK	GER
1:02.13	H. MORI	JPN	4:05.47	EDITH HEWITT	GBR	3:08.93	M. GAUSSEN	AUS	1:19.87	R. HEDGES	AUS
1:02.27	VIOLA THOMPSON	USA	4:22.50	NELLA GAMENARA	ITA	3:09.45	JANET MESERVEY	USA	1:20.10	DOROTHY HOPKINS	USA
1:02.34	ZADA TAFT	USA	4:51.20	HELEN OFFENHAUSER	USA	3:12.35	M. TROMP	AUS	1:30.94	SALLY SCOTT	USA
100 M. FLY			4:54.74	GENEVA KAHRS	USA	200 M. BRST			100 M. BACK		
2:16.26	GERTRUD ZINT	USA	4:59.73	ANNE WILDER	USA	4:48.49	MAXINE O. MERLINO	USA	2:28.46	JULIA DOLCE	USA
2:16.62	ZADA TAFT	USA	5:00.52	LEE HOLM	USA	6:24.75	ANNE WILDER	USA	2:34.06	MEREDITH SCANLON	USA
2:20.74	KAY SCHIMPF	USA	5:17.40	RUTH E. RIDENOUR	USA	6:39.32	JANET MESERVEY	USA	2:45.00	DOROTHY HOPKINS	USA
2:23.06	VIOLA THOMPSON	USA	5:25.89	J. KENNEDY	AUS	7:01.98	M. GAUSSEN	AUS	2:59.62	SALLY SCOTT	USA
2:23.41	H. MORI	JPN	6:13.71	A. TAKADA	JPN	50 M. FLY			3:09.61	H. MATSUURA	JPN
2:26.40	HELEN HUMMER	USA	400 M. FREE			1:06.61	MAXINE O. MERLINO	USA	3:35.80	HAZEL BRESSIE	USA
2:34.53	ROSEMARY KARIKER	USA	8:35.51	U. WADA	JPN	1:06.66	ANNE WILDER	USA	4:42.59	GRACE HIDDLESON	USA
2:37.32	NAN NEVIN	NZL	9:01.93	MARIE WICKLUN	USA	1:17.11	NANCY CLARK	USA	200 M. BACK		
2:42.99	B. STERN	AUS	9:22.65	D. JONES	AUS	1:25.66	EVA MULLER	USA	5:43.22	DOROTHY HOPKINS	USA
3:27.92	P. HALL	AUS	9:34.17	D. NICOL	AUS	1:26.57	EDIE GOLDMAN	USA	6:10.39	SALLY SCOTT	USA
200 M. FLY			9:50.16	GENEVA KAHRS	USA	1:34.81	HELEN OFFENHAUSER	USA	6:33.05	R. HEDGES	AUS
5:03.73	GERTRUD ZINT	USA	10:31.89	EDITH HENDRY	USA	100 M. FLY			6:33.27	H. MATSUURA	JPN
5:23.81	KAY SCHIMPF	USA	10:38.77	AGNES ROMAYKO	USA	2:27.73	MAXINE O. MERLINO	USA	7:49.43	HAZEL BRESSIE	USA
5:26.11	B. STERN	AUS	10:47.03	RUTH LECHNER	USA	2:28.22	JEAN D. DURSTON	USA	50 M. BRST		
5:53.39	ROSEMARY KARIKER	USA	11:09.05	RUTH E. RIDENOUR	USA	2:32.48	ANNE WILDER	USA	1:09.60	GRETE GOTTSCHALK	GER
7:34.08	FRANCIS BELL	USA	13:11.71	A. TAKADA	JPN	3:08.53	HILDA G. BUEL	USA	1:13.55	MADELEINE MILLER	USA
7:37.47	HELENA HOFFMAN	USA	800 M. FREE			3:19.30	EVA MULLER	USA	1:18.00	MIA LAUBENHEIMER	GER
100 M. I.M.			17:34.79	MAXINE MERLINO	USA	200 M. FLY			1:25.69	DOROTHY HOPKINS	USA
1:49.22	M. DUTTON	AUS	20:35.09	LEE HOLM	USA	4:58.81	MAXINE O. MERLINO	USA	1:29.92	MEREDITH SCANLON	USA
1:51.90	EVA RAUNER	GER	22:55.99	EDITH HENDRY	USA	5:28.42	ANNE WILDER	USA	1:36.75	R. HEDGES	AUS
1:52.94	H. KIMOTO	JPN	28:46.75	G. HACKETT	AUS	100 M. I.M.			1:51.11	SALLY SCOTT	USA
1:55.00	GERTRUD MEERWALD	GER	1500 M. FREE			2:06.32	MAXINE O. MERLINO	USA	2:02.93	M. WILLIAMS	AUS
1:56.00	GERTRUD ZINT	USA	38:09.61	GENEVA KAHRS	USA	2:13.15	EDITH HEWITT	GBR	100 M. BRST		
1:56.59	VIOLA THOMPSON	USA	42:21.24	AGNES ROYMAKO	USA	2:18.25	NANCY CLARK	USA	2:40.99	MADELEINE MILLER	USA
1:57.30	M. HAMURO	JPN	42:59.99	EDITH HENDRY	USA	2:33.82	EVA MULLER	USA	3:11.90	DOROTHY HOPKINS	USA
2:04.66	B. STERN	AUS	50 M. BACK			2:37.23	ANNE WILDER	USA	3:46.19	E. JONES	AUS
2:06.74	Y.FRISCHHERTZ	USA	54.08	MARIE WICKLUN	USA	2:45.88	EDIE GOLDMAN	USA	3:51.92	SALLY SCOTT	USA
2:08.55	KAY SCHIMPF	USA	59.30	EDITH HEWITT	GBR	2:49.99	HILDA BUEL	USA	4:40.89	GRACE HIDDLESON	USA
200 M. I.M.			59.39	M. SHIGMITSU	JPN	2:49.99	HELEN OFFENHAUSER	USA	200 M. BRST		
4:10.54	RITA SIMONTON	USA	1:01.15	MAXINE O. MERLINO	USA	2:53.17	BUZ CATLIN	USA	5:49.93	MADELEINE MILLER	USA
4:13.37	H. KIMOTO	JPN	1:01.58	D. JONES	AUS	3:06.96	RUTH E. RIDENOUR	USA	7:29.17	DOROTHY HOPKINS	USA
4:14.12	GERTRUD ZINT	USA	1:02.90	GERDA SCHUBERT	GER	200 M. I.M.			8:31.02	SALLY SCOTT	USA
4:28.52	B. STERN	AUS	1:02.93	NANCY CLARK	USA	4:38.45	JEAN D. DURSTON	USA	10:29.32	HAZEL BRESSIE	USA
4:33.12	VIOLA THOMPSON	USA	1:02.94	EDITH HENDRY	USA	4:42.49	MAXINE O. MERLINO	USA	50 M. FLY		
4:36.58	Y.FRISCHHERTZ	USA	1:03.60	ANNCHEN REILE	GER	5:35.73	ANNE WILDER	USA	1:20.41	DOROTHY HOPKINS	USA
4:36.65	KAY SCHIMPF	USA	1:05.71	EVA MULLER	USA	5:52.64	HILDA G. BUEL	USA	2:18.92	SALLY SCOTT	USA
4:44.94	K. KITAMURA	JPN	100 M. BACK			6:28.67	RUTH E. RIDENOUR	USA	2:43.38	HAZEL BRESSIE	USA
4:45.61	ZADA TAFT	USA	1:55.82	MARIE WICKLUN	USA	400 M. I.M.			100 M. FLY		
5:26.96	ROSEMARY KARIKER	USA	1:59.34	J. KENNEDY	AUS	9:38.43	MAXINE O. MERLINO	USA	3:00.10	DOROTHY HOPKINS	USA

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

4:59.89 SALLY SCOTT USA
5:50.37 HAZEL BRESSIE USA
200 M. FLY
7:23.27 DOROTHY HOPKINS USA
10:46.48 SALLY SCOTT USA
13:53.52 HAZEL BRESSIE USA
100 M. I.M.
2:48.26 DOROTHY HOPKINS USA
4:06.36 SALLY SCOTT USA
4:36.95 HAZEL BRESSIE USA
200 M. I.M.
6:05.96 DOROTHY HOPKINS USA
400 M. I.M.
13:42.08 DOROTHY HOPKINS USA
20:11.14 HAZEL BRESSIE USA

****
WOMEN 85-89
****
50 M. FREE
1:11.53 KATHERINE PELTON USA
100 M. FREE
4:45.17 ANNA BAUSCHER USA
200 M. FREE
5:46.15 KATHERINE PELTON USA
6:16.73 ANNA BAUSCHER USA
50 M. BACK
1:34.25 KATHERINE PELTON USA
100 M. BACK
2:56.15 ANNA BAUSCHER USA
50 M. BRST
1:37.05 KATHERINE PELTON USA
100 M. BRST
3:09.62 KATHERINE PELTON USA
50 M. FLY
1:24.53 KATHERINE PELTON USA
100 M. FLY
3:29.58 KATHERINE PELTON USA
200 M. FLY
7:15.07 KATHERINE PELTON USA
100 M. I.M.
3:00.23 KATHERINE PELTON USA
5:05.25 ANNA BAUSCHER USA

****
WOMEN 90-94
****

****
WOMEN 95-99
****

****
WOMEN 100-104
****

****
M E N 25-29
****
50 M. FREE
23.64 MARK NOETZEL USA
23.79 LEON VERHAGE NED
24.02 ANDERS RASMUSSEN USA
24.04 ALVISE RITTORE ITA
24.49 PER JOHANSSON SWE
24.49 PATRICK WRYNN USA
24.51 ANDRE MICHAUD CAN
24.63 K. SATO JPN
24.66 BRIAN A. JONES USA
24.68 ROLAND LEE GBR
100 M. FREE
51.74 LEON VERHAGE NED
52.29 MARK NOETZEL USA
52.67 RONALD LEE GBR
52.70 ANDERS RASMUSSEN USA
53.67 DAN OLE JOHANSEN DEN
53.80 PETER WONING NED
53.88 PAUL SHACKLEY GBR
54.12 ANDRE MICHAUD CAN
54.32 CRAIG NORREY SUI
54.33 KEVIN STAPLETON CAN
200 M. FREE
1:55.54 ROLAND LEE GBR
1:56.59 PAUL SHACKLEY GBR
1:58.04 TONY DAY GBR
1:59.84 EDWIN NORDEN NED
2:00.75 ALLAN M. JAEGERS USA
2:00.90 KEVIN STAPLETON CAN
2:01.49 JOHN M. BOEGMAN USA
2:02.42 KEN JOY GBR
2:02.97 MIKE DAVIDSON USA
2:03.60 STEFANO PETTI ITA
400 M. FREE
4:10.97 PAUL SHACKLEY GBR
4:17.20 DARRYL JOHNSON USA
4:18.61 THIERRY JACOT SUI
4:19.99 ALAN VOISARD USA
4:21.20 ALLAN M. JAEGERS USA
4:21.34 KEVIN STAPLETON CAN
4:22.30 N.LECHEVALLIER FRA
4:25.81 STEVE SCHMIDT USA
4:25.90 STEFANO PETTI ITA
4:26.35 JOHN JEWELL USA
800 M. FREE
8:48.63 ALLAN M. JAEGERS USA
9:03.44 ALAN VOISARD USA
9:10.86 J.DAHL RASMUSSEN DEN
9:15.69 BO WESLY DEN
9:25.29 PATRICK DUGGAN USA
9:34.11 PETER SOLOMAN USA
9:36.47 TIM MORIOKA USA
9:38.14 OLE BROMER DEN
9:41.13 KARL KOLB USA
9:46.80 ANDY GRENDER USA
1500 M. FREE
17:19.05 ALLAN M. JAEGERS USA
17:24.73 GERRY RODRIGUES USA
17:39.00 J.DAHL RASMUSSEN DEN
17:53.04 PETER SOLOMAN USA
18:05.90 ADRIANO GRADI ITA
18:15.94 MARK MCKINNEY GBR
18:21.22 ANDY GRENDER USA
18:23.38 PIERRE DELISLE USA
18:31.28 JEFF NEUFELD USA
18:43.95 BRIAN PEARSON USA
50 M. BACK
28.05 M.PEYREBRUNE GBR
28.63 LEON VERHAGE SWE
28.79 K. SATO JPN
29.00 UDO CHRISTIANSEN GER
29.02 JON R. BALLACK USA
29.05 CRAIG NORREY SUI
29.10 JAN FORTSCH GER
29.20 BERND RICHTER GER
29.21 BRIAN A. JONES USA
29.29 NICOLAI PEDERSEN DEN
100 M. BACK
1:00.53 M.PEYREBRUNE GBR
1:01.73 RICH GRIMSHAW GBR
1:01.85 NICOLAI PEDERSEN DEN
1:03.33 MILORAD RADO SUI
1:03.33 MILO RADO FRA
1:03.52 TIM MCMANUS CAN
1:03.88 PETER WONING NED
1:04.13 N.LECHEVALLIER FRA
1:04.31 GERRY HODGSON GBR
1:05.63 FRED HEEMSTRA NED
200 M. BACK
2:11.99 RICH GRIMSHAW GBR
2:19.18 N. MIYAGAWA JPN
2:22.90 RODOLFO BORRELLI ITA
2:23.67 M. SCOTT JPN
2:24.52 MARK MCKINNEY GBR
2:28.57 JOHN PROWTING GBR
2:28.87 DALE BARKER GBR
2:28.95 DON WELLS CAN
2:29.59 J. HAWTON AUS
2:29.70 PAOLO DAL MASO ITA
50 M. BRST
28.81 G. FARROW AUS
31.10 A. JACKSON AUS
31.17 S. TSUTSUMI JPN
31.20 SERGE SCORE CAN
31.26 Y. MIYATA JPN
31.36 M.PEYREBRUNE GBR
31.48 FEDERICO CERESI ITA
31.50 FABIO BONARETTI ITA
31.55 HOLDEN BANK USA
31.65 J. ROGERS AUS
100 M. BRST
1:06.13 PAUL SHACKLEY GBR
1:09.53 ROLAND BOOMSMA NED
1:09.60 Y. NARUSHIMA JPN
1:09.84 J. ROGERS AUS
1:10.51 G. CARROLL AUS
1:10.54 Y. MIYATA JPN
1:10.81 SERGE SCORE CAN
1:11.11 NICOLAI PEDERSEN DEN
1:11.20 PAUL WRIGHT GBR
1:11.24 JOHN STENROOS USA
200 M. BRST
2:26.38 PAUL SHACKLEY GBR
2:27.95 SERGE SCORE CAN
2:34.76 KEN JOY GBR
2:35.98 Y. NARUSHIMA JPN
2:36.34 PATRICK DUGGAN USA
2:36.37 ALLAN M. JAEGERS USA
2:36.51 BOB WATSON CAN
2:37.14 G. CARROLL AUS
2:38.18 KEVIN INSLEY GBR
2:38.61 ROBERT A. FUENTES USA
50 M. FLY
26.01 ANDERS RASMUSSEN USA
26.27 BRIAN A. JONES USA
26.41 MARK NOETZEL USA
26.64 RONALD LEE GBR
26.66 S. CLARK AUS
26.88 JON R. BALLACK USA
26.91 EDWIN NORDEN NED
26.96 ANDRE MICHAUD CAN
27.00 Y. YAMANE JPN
27.00 THOMAS DREBLE GER
100 M. FLY
58.38 PAUL SHACKLEY GBR
58.93 MARK NOETZEL USA
59.31 TONY DAY GBR
59.33 ROLAND LEE GBR
1:00.02 DAVID EMERSON GBR
1:00.16 EDWIN NORDEN NED
1:00.50 FERNAND CHOLETTE CAN
1:00.60 CLAUDIO FORNASARI ITA
1:00.62 CALVIN JACOBS CAN
1:00.71 ANDRE MICHAUD CAN
200 M. FLY
2:07.65 PAUL SHACKLEY GBR
2:12.60 T. BONESS AUS
2:15.40 ROB MASSON CAN
2:19.00 MIKE DAVIDSON USA
2:20.65 FERNAND CHOLETTE CAN
2:23.95 M. YADA JPN
2:24.60 STIG LOFTHEIM DEN
2:25.83 DALE BARKER GBR
2:26.05 DARRYL JOHNSON USA
2:26.27 JOHN JEWELL USA
100 M. I.M.
57.70 G. FARROW AUS
1:00.66 K. SATO JPN
1:00.89 LEON VERHAGE NED
1:01.15 TONY DAY GBR
1:01.51 ROLAND LEE GBR
1:01.67 S. CLARK AUS
1:01.82 RICH GRIMSHAW GBR
1:02.20 ROLAND BOOMSMA NED
1:02.49 FRANCESC RIERA ESP
1:02.70 NICOLAI PEDERSEN DEN
1:02.70 PETER WONING NED
200 M. I.M.
2:10.95 RONALD LEE GBR
2:11.16 PAUL SHACKLEY GBR
2:11.21 TONY DAY GBR
2:12.95 ALLAN M. JAEGERS USA
2:15.14 RICH GRIMSHAW GBR
2:18.11 CALVIN JACOBS CAN
2:18.22 PATRICK DUGGAN USA
2:19.92 ROB MASSON CAN
2:20.37 KEVIN INSLEY GBR
2:20.40 FERNAND CHOLETTE CAN
400 M. I.M.
4:43.99 ALLAN M. JAEGERS USA
4:56.94 PATRICK DUGGAN USA
4:58.75 CALVIN JACOBS CAN
4:59.59 TIM MORIOKA USA
5:02.60 FERNAND CHOLETTE CAN
5:06.80 STIG LOFTHEIM DEN
5:11.78 JEFF NEUFELD USA
5:12.63 ANDY GRENDER USA
5:14.29 DON SKEOCH USA
5:17.54 ANDRE MICHAUD CAN

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M E N 30-34
****
50 M. FREE
24.37 STU MARVIN USA
24.69 TIM P. ELSON USA
24.88 K. KODAMA JPN
25.04 J. MARSHALL AUS
25.07 BRIAN ARCHIBALD GBR
25.20 STEFANO BIRICOLTI ITA
25.29 IAN LOUGHREY CAN
25.39 ALAN VOISARD USA
25.40 ROLAND WENDEL GER
25.40 RICCARDO URBANI ITA
25.40 BLAISE FORD GBR
100 M. FREE
53.31 M. MORGAN AUS
54.28 PAUL BLACKBEARD GBR
54.35 STU MARVIN USA
54.70 A. HUNTER AUS
55.09 PAUL MORRIS GBR
55.18 CHARLES NORELLI USA
55.30 DEAN PRYZMUS USA
55.33 CRAIG PETERSEN USA
55.66 H. SAKAMOTO JPN
56.19 JOHN HAVLIK USA
200 M. FREE
1:58.35 K. KODAMA JPN
1:59.22 M. MORGAN AUS
2:01.45 A. HUNTER AUS
2:02.16 ALAN VOISARD USA
2:02.44 CRAIG PETERSEN USA
2:03.59 R. BUTCHER AUS
2:03.70 MARCO AMIDANI ITA
2:04.50 JURGEN SIGWARTH GER
2:04.60 CHARLES NORELLI USA
2:04.92 WILLIAM HEMPEL GBR
400 M. FREE
4:23.70 DAN STEPHENSON USA
4:25.66 BRAD WILLIAMS USA
4:30.27 JAMES E. DEMING USA
4:30.34 ALAN VOISARD USA
4:31.79 IAN MCCLOY CAN
4:32.71 JOAN PASCUAL ESP
4:33.66 DAVID KEMLER USA
4:34.66 BILLY BRIGHAM USA
4:35.13 STEVE VELA USA
4:36.73 ROD CAMERON NZL
800 M. FREE
9:06.74 R. BUTCHER AUS
9:13.17 S. LINNET AUS
9:23.16 DAN STEPHENSON USA
9:25.37 MARK JONES GBR
9:26.09 DAVID KEMLER USA
9:29.42 S. MILLER AUS
9:37.04 BILLY BRIGHAM USA
9:46.67 GERALD FISETTE USA
9:46.80 P. CLEWS AUS
9:49.86 MARTY HENDRICK USA
1500 M. FREE
17:11.58 MATT CLARK USA

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

17:22.05	DAN STEPHENSON	USA	27.40	RICCARDO URBANI	ITA	56.74	H. AMAGASAKI	JPN	2:32.61	ALLAN GENTLEMAN	GBR
17:59.82	S. MILLER	AUS	27.47	M. HONDA	JPN	57.34	H. KLOUZAL	AUS	2:36.18	MARK SAUNDERS	NZL
18:06.35	BILLY BRIGHAM	USA	27.48	SERGEI FESENKO	URS	57.70	CRAIG HUDGELL	NZL	2:37.10	ROBERTO DANIELI	ITA
18:29.64	JULES LEMAY	CAN	27.52	CHRIS DIXON	USA	57.79	DAVE CHUTTER	CAN	2:37.19	DAVID HAMM	GBR
18:51.44	WAYDE MULHERN	USA	27.64	JOHN HAVLIK	USA	57.88	C.ANDERSSON	SWE	50 M. BRST		
18:52.89	JAMES MCFARLAND	USA	27.69	SHAWN O'GORMAN	USA	57.96	JOHN P. ROEMER	USA	31.97	CHRIS NICOL	CAN
19:03.15	SCOTT RABALAIS	USA	100 M. FLY			57.96	BRENT SWEITZER	USA	32.22	CARLO MAURO	ITA
19:12.23	JOHN MACMASTER	CAN	58.69	PAUL MORRIS	GBR	200 M. FREE			32.32	KARL KAZMEIER	USA
19:20.78	JEFF THIBODEAUX	USA	58.88	M.SHEPARDSON	USA	2:04.42	LARRY WOOD	USA	32.34	SERGIO BERNARDINI	ITA
50 M. BACK			59.22	PAUL BLACKBEARD	GBR	2:04.69	STEVE PRESCOTT	NZL	32.58	RENE TOUR	SWE
29.02	STU MARVIN	USA	59.98	M. MORGAN	AUS	2:08.64	T. HAYASHI	JPN	32.78	PERE PRAT	ESP
29.51	KEVIN PARFOOT	GBR	1:00.32	KEES VERVOORN	NED	2:08.73	MAKE MANN	USA	33.12	HAROLD SCHILLER	GER
29.60	A. HAGI	JPN	1:00.75	SERGEI FESENKO	URS	2:08.89	ROBERT FORTIER	CAN	33.16	G. HENRY	AUS
29.90	Y. YANASE	JPN	1:00.85	KERRY L. O'BRIEN	USA	2:09.00	MARCO BRAVI	ITA	33.20	PAUL BOULDING	CAN
29.90	RYSZARD ZUGAJ	GER	1:01.93	JOHN HAVLIK	USA	2:09.31	EDDIE RIACH	GBR	33.40	MARCO STENTELLA	ITA
29.94	SALVATORE NANIA	ITA	1:02.07	TOMMY LINDELL	SWE	2:09.37	CHRIS LANSBERG	USA	100 M. BRST		
29.97	J. MARSHALL	AUS	1:02.55	DEAN PRYZMUS	USA	2:09.99	DAVID CHAMBERS	NZL	1:08.87	JOHN P. ROEMER	USA
30.00	MATTIA FLORIT	ITA	200 M. FLY			2:10.48	ROY ABRAMOWITZ	USA	1:10.07	CHRIS NICOL	CAN
30.10	JURGEN SIGWARTH	GER	2:14.63	PAUL BLACKBEARD	GBR	400 M. FREE			1:11.35	RALPH SCHALLON	GER
30.14	DEAN PRYZMUS	USA	2:17.02	STEVE VELA	USA	4:29.20	LARRY WOOD	USA	1:11.68	MIKE DREWS	USA
100 M. BACK			2:17.24	PAUL MORRIS	GBR	4:32.80	STEVE PRESCOTT	NZL	1:12.20	SERGIO BERNARDINI	ITA
1:04.03	CHARLES GROEN	USA	2:22.34	BILLY BRIGHAM	USA	4:39.89	ROBERT FORTIER	CAN	1:12.90	MIKE HEINEN	USA
1:04.08	KEVIN PARFOOT	GBR	2:26.76	JOHN CULHANE	USA	4:40.48	PETE HULSVELD	USA	1:13.00	PHILIPPE MAYER	SUI
1:05.07	DAVID BURLESON	USA	2:28.59	JOHN GALLANT	CAN	4:41.52	WILLIAM BEHUN	USA	1:13.01	RENE TOUR	SWE
1:05.10	A. HAGI	JPN	2:28.68	JULES LEMAY	CAN	4:42.02	CHRIS LANSBERG	USA	1:13.06	PERE PRAT	ESP
1:05.57	S. IWAMOTO	JPN	2:30.56	PRYCE ALDERSON	CAN	4:43.63	G. HENRY	AUS	1:13.40	KARL KAZMEIER	USA
1:05.60	CHUCK GRACE	CAN	2:31.00	JAMES M. DAVISON	USA	4:44.29	WILL REEVES	USA	200 M. BRST		
1:05.65	B. FORD	AUS	2:32.92	H. SUYAMA	JPN	4:44.65	DAVID VANDAM	USA	2:33.76	CHRIS NICOL	CAN
1:05.87	DEAN PRYZMUS	USA	100 M. I.M.			4:45.97	MICHAEL STAMHUIS	CAN	2:35.50	PHILIPPE MAYER	SUI
1:06.01	S. HIRAOKA	JPN	1:01.07	PAUL MORRIS	GBR	800 M. FREE			2:37.92	GREG HARRISON	USA
1:06.50	CRAIG PETERSEN	USA	1:02.34	SERGEI FESENKO	URS	9:19.77	LARRY WOOD	USA	2:42.10	SERGIO BERNARDINI	ITA
200 M. BACK			1:02.52	STU MARVIN	USA	9:36.77	ROBERT FORTIER	CAN	2:42.56	MIKE HEINEN	USA
2:19.90	KEVIN PARFOOT	GBR	1:03.27	GLEN CHRISTENSON	JPN	9:47.12	PETE HULSVELD	USA	2:45.50	CARLO MAURO	ITA
2:22.42	CRAIG PETERSEN	USA	1:04.09	SHAWN O'GORMAN	USA	9:57.80	B.RANSOM-NELSON	USA	2:46.88	LARRY WOOD	USA
2:24.21	B. FORD	AUS	1:04.51	KEVIN PARFOOT	GBR	9:57.88	GREG LANGSETT	USA	2:47.10	JEFFREY KRONGAARD	USA
2:24.65	WAYDE MULHERN	USA	1:04.51	TOM YOUNGER	USA	10:04.46	PHIL MAYER	GER	2:47.27	PAUL BOULDING	CAN
2:27.36	ANDREW BURGESE	GBR	1:04.56	J. MARSHALL	AUS	10:04.46	PHILIPPE MAYER	SUI	2:47.82	H. ABE	JPN
2:28.60	MATTIA FLORIT	ITA	1:04.56	GARETH PARKER	GBR	10:10.07	BRIAN OCONNELL	USA	50 M. FLY		
2:28.91	KEVIN TRIMBEE	CAN	1:04.57	ANDERS OTTOSSON	SWE	10:11.11	LEE MENCH	USA	27.57	KEVIN MCCORMACK	USA
2:29.30	MARCO BRAVI	ITA	200 M. I.M.			10:15.75	JERRY SCHEIBNER	USA	27.97	BRUCE JONES	USA
2:30.14	STEPHEN ALLEN	GBR	2:19.75	GARETH PARKER	GBR	1500 M. FREE			28.04	DON MENZIE	USA
2:30.56	A. GODFREY	AUS	2:19.79	STU MARVIN	USA	17:51.31	LARRY WOOD	USA	28.12	C.ANDERSSON	SWE
50 M. BRST			2:19.89	GLEN CHRISTENSON	JPN	18:20.70	NED MAGGIORA	USA	28.52	MICHAEL HEATHER	USA
29.14	S. BROWN	AUS	2:22.16	KEVIN PARFOOT	GBR	18:23.55	PETE HULSVELD	USA	28.53	FREDERICK TEMPLE	USA
30.03	GLEN CHRISTENSON	JPN	2:23.11	CHARLES GROEN	USA	18:50.48	GREGORY LANGSETT	USA	28.77	G. HENRY	AUS
31.24	Y. YOSHIDA	JPN	2:23.16	PHILIPPE ROGNON	SUI	18:57.15	WILLIAM BLACK	USA	28.77	TREVOR CLARK	GBR
31.44	MAGNUS FALTMAN	SWE	2:23.65	MATT CLARK	USA	19:00.19	CHRIS LANSBERG	USA	28.82	CRAIG HUDGELL	NZL
31.50	GERRY PREVILLE	CAN	2:24.80	GERRY PREVILLE	CAN	19:10.18	TERRY ALLMAN	GBR	28.83	TIM HALE	USA
31.54	Y. KAGAMI	JPN	2:25.19	MARCO AMIDANI	ITA	19:13.18	ROBERT FORTIER	CAN	100 M. FLY		
31.57	PAUL MORRIS	GBR	2:25.89	JOHN ROEMER	USA	19:22.74	CHIP BRADLEY	USA	1:02.56	STEVE PRESCOTT	NZL
31.64	MIKE WINTERBAUER	USA	400 M. I.M.			19:26.83	FRANK THOMPSON	USA	1:02.66	CRAIG HUDGELL	NZL
31.95	PAUL RILEY	GBR	4:57.05	SHAWN O'GORMAN	USA	50 M. BACK			1:02.74	C.ANDERSSON	SWE
31.96	ROB BOELE	NED	5:02.74	R. BUTCHER	AUS	28.66	THOMAS WOLF	USA	1:02.74	FREDERICK TEMPLE	USA
100 M. BRST			5:09.53	KEVIN TRIMBEE	CAN	29.83	Y. SHIROTA	JPN	1:03.37	TREVOR CLARK	GBR
1:07.14	GLEN CHRISTENSON	JPN	5:10.06	GLEN CHRISTENSON	JPN	30.18	BOB SCHOUTSEN	NED	1:03.51	BRUCE JONES	USA
1:08.69	Y. KAGAMI	JPN	5:12.98	DAN STEPHENSON	USA	30.24	CHIP BRADLEY	USA	1:03.63	MICHAEL HEATHER	USA
1:08.72	PAUL MORRIS	GBR	5:14.12	JAKE GULICK	USA	30.34	TREVOR CLARK	GBR	1:03.69	DAVID VANDAM	USA
1:09.46	Y. YOSHIDA	JPN	5:19.85	DAVID KEMLER	USA	30.44	CRAIG HUDGELL	NZL	1:03.73	KEVIN MCCORMACK	USA
1:10.33	GERRY PREVILLE	CAN	5:21.33	GERRY PREVILLE	CAN	30.60	GERHARD BUTTNER	GER	1:03.83	MARK SAUNDERS	NZL
1:10.73	JAN MATTHIJS WITH	NED	5:22.54	MARK JONES	GBR	30.99	EDDIE RIACH	GBR	200 M. FLY		
1:10.73	MAGNUS FALTMAN	SWE	5:25.90	JAMIE LOUIE	USA	31.05	CLIVE WHITELOCK	GBR	2:17.46	DAVID VANDAM	USA
1:10.93	GREG OXLEY	USA				31.07	GARY HAFER	USA	2:17.93	MARK SAUNDERS	NZL
1:11.23	DENIS CHARRON	CAN	**********			100 M. BACK			2:20.70	FREDERICK TEMPLE	USA
1:11.30	MIKE WINTERBAUER	USA	M E N 35-39			1:01.45	THOMAS WOLF	USA	2:23.20	FRANK MCINTYRE	USA
200 M. BRST			**********			1:05.61	BOB SCHOUTSEN	NED	2:26.15	LARRY WOOD	USA
2:29.67	GLEN CHRISTENSON	JPN	50 M. FREE			1:05.63	EDDIE RIACH	GBR	2:26.70	TREVOR CLARK	GBR
2:31.72	Y. KAGAMI	JPN	25.25	H. KLOUZAL	AUS	1:06.66	SCOTT MCMILLEN	USA	2:27.07	L. SEVARACZ	AUS
2:35.72	DENIS CHARRON	CAN	25.49	WILLIE WACHOB	USA	1:06.89	S. SHIROTA	JPN	2:27.38	MICHAEL HEATHER	USA
2:36.36	BARRY O'BRIEN	GBR	25.55	JOHN KAFENTZIS	USA	1:07.15	GARY HAFER	USA	2:29.68	R. BAYLEY	AUS
2:36.79	GERRY PREVILLE	CAN	25.69	H. AMAGASAKI	JPN	1:08.11	CLIVE WHITELOCK	GBR	2:33.41	ROY ABRAMOWITZ	USA
2:37.02	MIKE WINTERBAUER	USA	25.77	G. HENRY	AUS	1:08.19	DAVID HAMM	GBR	100 M. I.M.		
2:38.53	BRAD WILLIAMS	USA	25.84	TOM WHATLEY	USA	1:08.33	CHIP BRADLEY	USA	1:04.97	BRUCE JONES	USA
2:40.91	CRAIG DALLAM	USA	26.02	ERIC D. VAN BOER	USA	1:08.65	SANTIAGO ESCODA	ESP	1:05.45	STEVE PRESCOTT	NZL
2:41.40	ROB BOELE	NED	26.06	S. ODA	JPN	200 M. BACK			1:05.62	TREVOR CLARK	GBR
2:42.95	BRIAN CORBETT	CAN	26.08	KARL KAZMEIER	USA	2:15.47	THOMAS WOLF	USA	1:05.73	CRAIG HUDGELL	NZL
50 M. FLY			26.17	OLIVIER MIDDLETON	FRA	2:21.37	EDDIE RIACH	GBR	1:06.08	G. HENRY	AUS
26.18	PAUL MORRIS	GBR	100 M. FREE			2:27.09	SCOTT MCMILLEN	USA	1:06.61	SCOTT MCMILLEN	USA
26.58	M.SHEPARDSON	USA	55.83	LEE MENCH	USA	2:28.42	B.RANSOM-NELSON	USA	1:07.03	M. ONO	JPN
26.62	KEES VERVOORN	NED	55.94	G. HENRY	AUS	2:29.14	CHIP BRADLEY	USA	1:07.13	MIKE HEINEN	USA
27.37	TOMMY LINDELL	SWE	56.34	STEVE PRESCOTT	NZL	2:30.20	OLIVE WHITELOCK	GBR	1:07.24	JEFFREY KRONGAARD	USA

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

1:07.33 MARTON CSINGER SUI
200 M. I.M.
2:24.74 JEFFREY KRONGAARD USA
2:24.89 ALLAN GENTLEMAN GBR
2:25.05 LARRY WOOD USA
2:25.80 SCOTT MCMILLEN USA
2:25.94 JOHN P. ROEMER USA
2:26.57 TREVOR CLARK GBR
2:26.84 EDDIE RIACH GBR
2:29.35 MIKE HEINEN USA
2:29.54 DAVID VANDAM USA
2:30.30 MARTON CSINGER SUI
400 M. I.M.
4:59.07 THOMAS WOLF USA
5:03.94 TERRY HEGGY USA
5:08.84 MIKE DREWS USA
5:09.01 DAVID VANDAM USA
5:10.07 LARRY WOOD USA
5:13.80 MARK SAUNDERS NZL
5:16.24 JEFFREY KRONGAARD USA
5:19.32 SCOTT MCMILLEN USA
5:20.29 FRANK MCINTYRE USA
5:22.28 NED MAGGIORA USA

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M E N 40-44
****
50 M. FREE
25.25 JAN KOEN ANTHONI NED
25.52 ANDREW MC PHERSON USA
25.59 RICH ABRAHAMS USA
25.95 HOMER LANE USA
26.00 H.JOACHIM HARBRED GER
26.10 ERICH MEHL GER
26.30 DETLEF BECKER GER
26.40 F. SHIGENO JPN
26.55 MIKE BARDEN USA
26.60 B. KOVACS HUN
100 M. FREE
57.77 HOMER LANE USA
58.66 MIKE MORROW CAN
58.84 JAN KOEN ANTHONI NED
59.20 MIKE BARDEN USA
59.31 STEVE VANDERBEKEN USA
59.50 B. KOVACS HUN
59.70 WOLFGANG DIERKS GER
59.70 H.HARBRECHT GER
59.89 VERNON DASCH USA
1:00.00 G. CSABA HUN
200 M. FREE
2:08.23 ANDREW MC PHERSON USA
2:10.98 STEVE VANDERBEKEN USA
2:11.17 VERNON DASCH USA
2:11.70 STEVEN DURAPAU USA
2:13.23 WILLIAM REID USA
2:13.29 D.UIJTENBOGAART NED
2:13.40 DAVID THOMPSON GBR
2:13.47 FRANK WARNER USA
2:13.80 MIKE MORROW CAN
2:13.88 PAUL MCCORMICK USA
400 M. FREE
4:41.83 STEVEN DURAPAU USA
4:42.60 D.UIJTENBOGAART NED
4:42.75 MIKE MORROW CAN
4:45.01 FRANK WARNER USA
4:46.55 JOHN LAWRENCE USA
4:47.42 MAURICE HAMIDI FRA
4:47.88 STEVE VANDERBEKEN USA
4:48.95 GAARD ARNESON USA
4:48.99 VERNON DASCH USA
4:53.32 PATRICK HOWE USA
800 M. FREE
9:43.15 D.UIJTENBOGAART NED
9:45.12 STEVEN DURAPAU USA
9:56.98 JOHN LAWRENCE USA
9:57.41 GAARD ARNESON USA
10:09.26 VIRGIL DANEILS USA
10:09.90 P. JOY AUS
10:20.09 MIKE MORROW CAN
10:26.82 KEN RANSOM CAN
10:28.97 EBBE RASMUSSEN DEN
10:30.25 F.BIERING-SORENSE DEN
1500 M. FREE
18:24.14 D.UIJTENBOGAART NED
18:50.19 PATRICK R. DIXON USA
18:56.03 STEVE DURAPAU USA
18:57.39 PATRICK HOWE USA
19:06.12 JORGE GONZALEZ USA
19:46.49 KEN RANSOM CAN
20:10.99 FRANK MCQUIGGAN USA
20:23.65 DOUGLAS SELBY USA
20:37.40 N. TSUJI JPN
20:43.31 G. WINDUSS AUS
50 M. BACK
30.45 JAMES ROGERS GBR
30.72 PETER O'BRIEN CAN
30.81 EBBE RASMUSSEN DEN
31.56 JAUME COTS ESP
31.64 BOB KOLONKOWSKI USA
32.19 HUGH WILDER USA
32.60 DAN ROGACKI USA
32.66 J NATHAN LEECH USA
32.67 J. BYROM AUS
32.90 M. UEMURA JPN
100 M. BACK
1:06.43 JAMES ROGERS GBR
1:06.60 PETER O'BRIEN CAN
1:06.62 MAURICE HAMIDI FRA
1:09.23 ROBERT STRAND USA
1:10.18 EBBE RASMUSSEN DEN
1:10.49 JAUME COTS ESP
1:10.59 ANDREW MC PHERSON USA
1:10.90 WIM DE BOER NED
1:11.93 HUGH WILDER USA
1:12.00 JOHN MACRAE CAN
200 M. BACK
2:29.78 JAMES ROGERS GBR
2:30.14 MIKE MORROW CAN
2:30.68 PETER O'BRIEN CAN
2:34.50 FRANK WARNER USA
2:34.66 GREG GOSHORN USA
2:37.87 JOHN MACRAE CAN
2:38.92 S. LAMY AUS
2:40.82 B. HAYES AUS
2:41.17 STEVEN HIGHLEY USA
2:42.12 FRANCES CLARK GBR
50 M. BRST
32.70 ROBERT STODDART CAN
33.02 ALLEN STARK USA
33.36 TIBOR CSERVENYAK SUI
33.50 WOLFGANG DIERKS GER
33.65 MICHAEL WITASZEK USA
33.84 ROBERT STRAND USA
33.97 N. SANADA JPN
34.00 MANFRED ZEHR GER
34.02 T. FISHER AUS
34.14 DAN ROGACKI USA
100 M. BRST
1:11.31 ROBERT STRAND USA
1:13.19 ROBERT STODDART CAN
1:13.31 ALLEN STARK USA
1:14.20 WOLFGANG DIERKS GER
1:14.28 MIKE MORROW CAN
1:15.14 T. FISHER AUS
1:15.38 MICHAEL WITASZEK USA
1:15.49 TIBOR CSERVENYAK SUI
1:16.02 A. IWATA JPN
1:16.03 CHRISTOPH STAVZEK FRA
200 M. BRST
2:38.99 ROBERT STRAND USA
2:42.63 ALLEN STARK USA
2:42.71 MIKE MORROW CAN
2:44.06 WIM MULDER NED
2:47.79 T. FISHER AUS
2:48.54 D.UIJTENBOGAART NED
2:48.71 MICHAEL WITASZEK USA
2:49.20 PHIL DOCKERILL CAN
2:49.36 IAN THOMPSON USA
2:52.09 P. WYATT AUS
50 M. FLY
27.74 T. YOKOYAMA JPN
28.47 KURT GERHARDT USA
28.76 PETER GODFREY GBR
29.01 N. TSUJI JPN
29.22 JAMES DELACY USA
29.29 BOB SLAMA USA
29.30 C. GABOR HUN
29.50 WILLI STOLZE GER
29.50 PETER KOLLER GER
29.51 GARY M. IZUMO USA
100 M. FLY
1:04.86 N. TSUJI JPN
1:05.29 S. ASANO JPN
1:05.81 RICH ABRAHAMS USA
1:05.86 KURT GERHARDT USA
1:06.95 GARY M. IZUMO USA
1:07.44 JOHN RADIMER USA
1:07.46 JOHN LAWRENCE USA
1:07.76 IVAN JOHNSTONE NZL
1:07.79 WIM MULDER NED
1:07.85 MIKE MORROW CAN
1:07.85 DOUG HELLERSON USA
200 M. FLY
2:29.22 J. COVACEVICH AUS
2:32.28 DAVID THOMPSON GBR
2:32.30 IVAN JOHNSTONE NZL
2:46.18 CLAUS KOCH CAN
2:46.83 DOUG HELLERSON USA
2:47.20 ANDY WILSON GBR
2:51.35 RICHARD FORTUNE USA
2:53.60 BOB SHAW USA
2:58.25 C. HAHN AUS
3:01.14 ROBERT CUNDILL CAN
100 M. I.M.
1:05.84 ROBERT STRAND USA
1:06.95 DAN ROGACKI USA
1:08.10 WOLFGANG DIERKS GER
1:08.30 L. CSABA HUN
1:08.69 J. COVACEVICH AUS
1:09.05 ROBERT STODDART CAN
1:09.48 PHIL DOCKERILL CAN
1:09.58 MICHAEL WITASZEK USA
1:09.60 WOLFGANG STRCKEL GER
1:09.69 JOHN RADIMER USA
200 M. I.M.
2:25.90 MIKE MORROW CAN
2:28.96 ROBERT STRAND USA
2:31.01 JOHN LAWRENCE USA
2:32.46 JOHN MACRAE CAN
2:32.60 DAVID THOMPSON GBR
2:34.08 PHIL DOCKERILL CAN
2:34.73 J. COVACEVICH AUS
2:35.22 PETER O'BRIEN CAN
2:35.29 D.UIJTENBOGAART NED
2:36.63 MICHAEL WITASZEK USA
400 M. I.M.
5:10.98 MIKE MORROW CAN
5:31.53 IVAN JOHNSTONE NZL
5:37.83 JOHN MACRAE CAN
5:38.99 VIRGIL DANEILS USA
5:39.15 PETER O'BRIEN CAN
5:41.36 P. WYATT AUS
5:42.71 MIKE BARDEN USA
5:45.25 GAARD ARNESON USA
5:46.75 GREG GOSHORN USA
5:46.94 R. PHEGAN AUS

****
M E N 45-49
****
50 M. FREE
26.77 GARY LANGENDOEN USA
26.80 BERND SCHRODER GER
27.15 M. NAKAI JPN
27.15 RICHARD BAUSCHARD USA
27.15 DOUG BUCHAN USA
27.19 WILLIAM GOSNOLD USA
27.33 ROBERT CHENAUX CAN
27.40 PETER HEEREN GER
27.50 ANTONIO D'OPPIDO ITA
27.56 LARRY HEWES USA
100 M. FREE
58.45 TIM BIRNIE USA
59.71 K. IWASAKI JPN
59.72 ALISTAIR MCGREGOR GBR
59.90 DOUG BUCHAN USA
1:00.00 J. KIRICSI HUN
1:00.34 GARY LANGENDOEN USA
1:00.40 ANTONIO D'OPPIDO ITA
1:00.40 WILL GOSNOLD USA
1:00.90 ROBERT CHENAUX CAN
1:00.93 EDWARD CAZALET USA
200 M. FREE
2:08.96 TIM BIRNIE USA
2:12.59 ERIC CHEESEMAN GBR
2:12.88 JOHN GORDON GBR
2:15.82 EDWARD CAZALET USA
2:17.25 MICHAEL WAKE GBR
2:17.37 K. IWASAKI JPN
2:17.79 TEGZE P. HARASZTI USA
2:18.32 WILL GOSNOLD USA
2:18.45 GARY LANGENDOEN USA
2:19.67 H. NONAKA JPN
400 M. FREE
4:37.63 TIM BIRNIE USA
4:47.64 JACK GEOGHEGAN USA
4:50.40 D. CAMPION AUS
5:02.86 WILL GOSNOLD USA
5:05.11 BEN VAN DYK USA
5:08.20 LUCIANO CAMMELLI ITA
5:08.73 ROBERT CHENAUX CAN
5:10.01 S. TAGUCHI JPN
5:11.24 RONALD MOLNAR USA
5:13.31 KARL DONOGHUE CAN
800 M. FREE
10:01.99 SANDY GALLETLEY GBR
10:08.62 RICHARD BOYD USA
10:18.89 TEGZE P. HARASZTI USA
10:42.69 S. TAGUCHI JPN
10:45.38 F. GODDEN AUS
10:46.30 BEN VAN DYK USA
10:48.16 DOC CHENEY USA
10:50.43 ROBERT CHENAUX CAN
10:54.14 WILLIAM GOSNOLD USA
11:02.78 GEORGE SHRIVELL CAN
1500 M. FREE
19:24.66 SANDY GALLETLEY GBR
20:19.59 LEO J BRUNING USA
20:26.34 GAYLORD HOPKINS USA
20:41.12 ROBERT CHENAUX CAN
20:48.10 F. GODDEN AUS
20:48.23 BEN VAN DYK USA
20:49.79 DOUGLAS SELBY USA
20:56.04 GEORGE SHRIVELL CAN
21:06.20 TIM O. OZENNE USA
21:08.80 ROB HANOU NED
50 M. BACK
30.99 TIM BIRNIE USA
31.14 PHIL WHITTEN USA
31.45 PETER HEEREN GER
31.50 J. CSIKANY HUN
31.90 JURGEN DIETZE GER
32.70 M.GREBENSTEIN GER
32.75 H. NONAKA JPN
32.80 H.MILDENBERGER GER
32.81 ENRICO TOSI ITA
32.98 PAUL BOGGS USA
100 M. BACK
1:07.67 TIM BIRNIE USA
1:10.70 J. CSIKANY HUN
1:13.30 ENRICO TOSI ITA
1:13.60 PAUL BOGGS USA
1:13.82 EDWARD CAZALET USA
1:13.92 PETER HEEREN GER
1:14.90 PHIL WHITTEN USA
1:15.11 KARL DONOGHUE CAN
1:15.40 MIKE MC KINLAY USA
1:15.48 S. SUGIYAMA JPN
200 M. BACK
2:29.48 TIM BIRNIE USA

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

2:38.76 TIM GARTON USA
2:40.66 BOB LORD GBR
2:41.10 ENRICO TOSI ITA
2:43.27 PAUL BOGGS USA
2:43.51 MIKE MC KINLAY USA
2:44.50 A.GALLETLY GBR
2:45.76 S. SUGIYAMA JPN
2:47.43 LEO J BRUNING USA
2:48.57 JAMES STEWART GBR
50 M. BRST
33.40 DIETER HOFEL GER
33.59 PETER KUNZE GER
33.84 SCOTT GUTHRIE USA
33.90 CYRIL KRAL GER
34.00 GIANNI GROSS ITA
34.38 KEITH SHAW CAN
34.70 WOLFGANG TEMKE GER
34.74 ROBERT APEL GBR
35.10 HOLGER BREMER GER
35.20 ALEXANDER LIENOW GER
100 M. BRST
1:16.44 ROBERT APEL GBR
1:16.70 GIANNI GROSS ITA
1:17.79 BRYAN FINLAY CAN
1:18.21 KEITH SHAW CAN
1:18.47 TEGZE P. HARASZTI USA
1:19.20 WOLFGANG TEMKE GER
1:19.22 SCOTT GUTHRIE USA
1:19.24 ROB HANOU NED
1:19.50 TIM GARTON USA
1:19.77 MATTIAS KRONER SWE
200 M. BRST
2:48.81 ROBERT APEL GBR
2:50.37 BRYAN FINLAY CAN
2:50.53 ROBERT SMITH USA
2:51.67 ROB HANOU NED
2:53.62 STEVE BARDEN USA
2:56.49 KEITH SHAW CAN
3:02.58 ROSS HOLDEN CAN
3:04.11 RONALD GREGER USA
3:04.54 KING BOYD USA
3:04.55 MIKE LAUX USA
50 M. FLY
28.60 BERND SCHRODER GER
28.79 GARY LANGENDOEN USA
29.00 J. KIRICSI HUN
29.69 SCOTT GUTHRIE USA
29.77 PETER HEEREN GER
29.79 JOSEP CIURO ESP
30.00 N. TAKAMOTO JPN
30.09 LARRY HEWES USA
30.20 MANFRED BROCK GER
30.21 SOREN KORBO DEN
100 M. FLY
1:03.48 GARY LANGENDOEN USA
1:08.68 JOSEP CIURO ESP
1:09.02 BOB LORD GBR
1:09.36 INGVAR ERIKSSON SWE
1:10.66 DAVID CHERRIMAN GBR
1:10.84 R.LLOYD-MOSTYN GBR
1:10.87 K. SUGIMOTO JPN
1:11.03 RICHARD PITMAN USA
1:11.31 MIKE LAUX USA
1:11.46 Y. MIYOSHI JPN
200 M. FLY
2:28.48 GARY LANGENDOEN USA
2:40.86 A.GALLETLY GBR
2:47.46 F. GODDEN AUS
2:47.53 ROB HANOU NED
2:48.21 D. CAMPION AUS
2:51.03 MIKE LAUX USA
2:51.80 R.LLOYD-MOSTYN GBR
2:51.81 DEREK PARR GBR
2:51.84 RICHARD PITMAN USA
2:52.90 B. MORGAN AUS
100 M. I.M.
1:06.13 ROBERT SMITH USA
1:06.58 TIM GARTON USA
1:08.30 BERND SCHRODER GER
1:09.51 JOHN GORDON GBR

1:09.91 H. NONAKA JPN
1:10.10 ANTONIO D'OPPIDO ITA
1:10.55 JACK GEOGHEGAN USA
1:10.70 ENRICO TOSI ITA
1:11.13 TEGZE P. HARASZTI USA
1:11.18 GARY LANGENDOEN USA
200 M. I.M.
2:32.54 JOHN GORDON GBR
2:35.74 TEGZE P. HARASZTI USA
2:35.96 A.GALLETLY GBR
2:37.58 GARY LANGENDOEN USA
2:37.76 ANTONIO D'OPPIDO ITA
2:38.09 H. NONAKA JPN
2:38.13 EDWARD CAZALET USA
2:39.67 MIKE LAUX USA
2:40.45 RONALD MOLNAR USA
2:43.68 KING BOYD USA
400 M. I.M.
5:30.53 RICHARD BOYD USA
5:41.63 TEGZE P. HARASZTI USA
5:47.50 MIKE LAUX USA
5:48.67 RONALD MOLNAR USA
5:50.16 JOHN DAY USA
5:51.68 LEO J BRUNING USA
5:53.20 ROB HANOU NED
5:54.70 BRYAN FINLAY CAN
5:56.10 WARNER BRUNDAGE USA
6:00.01 PHIL WHITTEN USA

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M E N 50-54
****
50 M. FREE
27.19 PETER BERGENGREN SWE
27.44 JOHN SMITH USA
27.50 TOM ANGELL USA
27.87 JACK KELSO CAN
28.10 HENRY SOUTHALL USA
28.12 WILLIAM NEWMAN USA
28.30 K. NISHINO JPN
28.30 GOTTFRIED MERTENS GER
28.32 M. FUKUI JPN
28.45 Y. NAKATANI JPN
100 M. FREE
1:00.38 PETER BERGENGREN SWE
1:02.18 JOHN MARTIN-DYE GBR
1:02.32 TOM ANGELL USA
1:02.47 HENRY SOUTHALL USA
1:02.71 K. NISHINO JPN
1:03.20 P. JACKSON AUS
1:03.80 NIC GEERS NED
1:03.87 BARRY YOUNG NZL
1:04.00 GOTTFRIED MERTENS GER
1:04.26 E. WATANABE JPN
200 M. FREE
2:13.39 KLAUS EBNER GER
2:15.10 HENRY SOUTHALL USA
2:16.09 GEOFF STOKES GBR
2:16.55 K. NISHINO JPN
2:20.36 JOHN MARTIN-DYE GBR
2:23.08 J. MIYAKE JPN
2:23.90 NIC GEERS NED
2:24.59 S. TOKUNAGA JPN
2:25.51 P. JACKSON AUS
2:26.49 ERNIE LESKOVITZ USA
400 M. FREE
4:54.43 K. NISHINO JPN
4:58.47 HENRY SOUTHALL USA
5:11.43 ERNIE LESKOVITZ USA
5:12.40 NIC GEERS NED
5:12.89 BOB COALE USA
5:13.79 HANS LINDSTROM SWE
5:15.45 PETER BERGENGREN SWE
5:18.56 DAVID HARRISON USA
5:20.02 OTTO CHRISTENSEN DEN
5:21.15 DOUG BROWN USA
800 M. FREE
10:36.83 GEOFF STOKES GBR
10:42.13 HENRY SOUTHALL USA
10:44.68 ERNIE LESKOVITZ USA

10:47.35 NIC GEERS NED
10:52.21 BOB COALE USA
10:54.82 OTTO CHRISTENSEN DEN
10:57.44 MEL GOLDSTEIN USA
11:03.12 CARL WOOLLEY USA
11:09.00 MAX ZELLER GER
11:12.66 J. CRISP AUS
1500 M. FREE
20:32.42 NIC GEERS NED
20:42.20 CARL WOOLLEY USA
20:45.57 BOB COALE USA
21:32.17 HENRY SOUTHALL USA
22:13.20 GIANNI VERGA ITA
22:32.58 K. KOJIMA JPN
22:33.98 MIKE CALWELL USA
22:57.56 HUGH CUMBERFORD GBR
23:03.69 RICH ALTHER USA
23:07.12 S. INAMOTO JPN
50 M. BACK
32.34 JOHN SMITH USA
32.72 BARRY YOUNG NZL
33.46 ANTHONY WESTON GBR
33.50 ADU HEWELCKE GER
34.04 R. YABE JPN
34.23 PETER BERGENGREN SWE
34.30 RUNO ROMELL SWE
34.40 MICHA WITTUM GER
34.58 JAN JOHANSEN DEN
34.60 EKKEHARD MIERSCH GER
100 M. BACK
1:09.38 BARRY YOUNG NZL
1:11.86 JOHN SMITH USA
1:13.82 ADU HEWELCKE GER
1:16.55 R. YABE JPN
1:16.69 Y. FUNABASHI JPN
1:16.84 PETER BERGENGREN SWE
1:17.17 BILL EARLEY USA
1:17.45 ANTHONY WESTON GBR
1:17.60 NIC GEERS NED
1:17.80 JAN JOHANSEN DEN
200 M. BACK
2:30.21 BARRY YOUNG NZL
2:52.28 M. HATTA JPN
2:52.81 Y. FUNABASHI JPN
2:54.50 NIC GEERS NED
2:55.48 ROGER HARFORD GBR
2:55.74 TOM FANNING USA
2:57.58 DALE MCGINLEY USA
2:59.96 BILL EARLEY USA
3:00.48 MEL GOLDSTEIN USA
3:02.37 GEOFF STOKES GBR
50 M. BRST
34.10 BERND WUNSCHE GER
34.29 JACK KELSO CAN
34.70 GUNTER SCHMAH GER
34.90 ADU HEWELCKE GER
35.30 ROLAND SCHONHAAR GER
35.46 ALAN CANHAM GBR
35.47 DAVID DABOLL USA
35.70 JURGEN SEELIGER GER
35.91 G. STUTSEL AUS
36.10 HANS-PETER DUFNER GER
100 M. BRST
1:16.66 JACK KELSO CAN
1:17.40 B. FABIAN HUN
1:18.60 BERND WUNSCHE GER
1:18.70 GUNTER SCHMAH GER
1:19.97 K. NISHINO JPN
1:21.07 BARRY YOUNG NZL
1:21.84 BENNY PEDERSEN DEN
1:21.85 JOHN FELDER USA
1:22.14 T. HIRABAYASHI JPN
1:22.14 J.LIPPINGHOF CAN
200 M. BRST
2:50.66 JACK KELSO CAN
2:52.63 M. MOLONEY AUS
3:00.33 PATRICK L. SCHLUP USA
3:04.20 JOHN FELDER USA
3:04.85 J.LIPPINGHOF CAN
3:04.90 K. NISHINO JPN

3:05.28 ARMIN ARNDT USA
3:06.67 GEOFF STOKES GBR
3:07.33 TOM FANNING USA
3:07.90 G. STUTSEL AUS
50 M. FLY
30.42 Y. FUNABASHI JPN
30.45 P. JACKSON AUS
30.59 JACK KELSO CAN
30.59 PETER BERGENGREN SWE
30.83 DAVID BLAKELEY GBR
30.86 JOHN SMITH USA
31.13 ADU HEWELCKE GER
31.23 HENRY SOUTHALL USA
31.48 JOHN CARDWELL GBR
31.60 GUNTER SCHOPKE GER
100 M. FLY
1:10.94 P. JACKSON AUS
1:11.81 HENRY SOUTHALL USA
1:12.70 ERNIE LESKOVITZ USA
1:13.17 Y. FUNABASHI JPN
1:13.95 PETER BERGENGREN SWE
1:14.13 DAVID BLAKELEY GBR
1:14.53 B.ANGSTENBERGER CAN
1:14.70 STANLEY CLARKE GBR
1:14.75 MEL GOLDSTEIN USA
1:15.75 JAN JOHANSEN DEN
200 M. FLY
2:47.83 B.ANGSTENBERGER CAN
2:51.10 MEL GOLDSTEIN USA
2:51.29 HENRY SOUTHALL USA
2:55.28 ERNIE LESKOVITZ USA
2:57.98 O. KATO JPN
3:04.49 NIC GEERS NED
3:06.10 BERT PETERSEN USA
3:08.72 T. SATO JPN
3:11.55 A. GREGSON AUS
3:17.64 KEITH INGRAM GBR
100 M. I.M.
1:07.77 JACK KELSO CAN
1:10.46 ADU HEWELCKE GER
1:11.60 JOHN SMITH USA
1:12.14 PETER BERGENGREN SWE
1:12.32 BARRY YOUNG NZL
1:12.51 Y. FUNABASHI JPN
1:12.80 B. FABIAN HUN
1:13.40 M. KOVATS HUN
1:14.41 P. JACKSON AUS
1:14.51 K. NISHINO JPN
200 M. I.M.
2:33.11 JACK KELSO CAN
2:37.86 BARRY YOUNG NZL
2:46.66 MEL GOLDSTEIN USA
2:46.81 P. JACKSON AUS
2:46.98 K. NISHINO JPN
2:50.46 PATRICK L. SCHLUP USA
2:51.76 GERT ELMARK DEN
2:52.45 B.ANGSTENBERGER CAN
2:53.33 J. CRISP AUS
2:53.54 ANTHONY WESTON GBR
400 M. I.M.
6:04.18 MEL GOLDSTEIN USA
6:06.22 TOM FANNING USA
6:06.41 PATRICK L. SCHLUP USA
6:09.58 CARL WOOLLEY USA
6:18.30 ERNIE LESKOVITZ USA
6:30.71 DONALD HASTINGS USA
6:34.07 C. BELL AUS
6:39.64 KEN WOODS NZL
6:45.54 DICK MACDONALD USA
6:47.26 CHARLES KILBOURNE USA

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M E N 55-59
****
50 M. FREE
27.72 BOB BAILIE USA
28.53 MICHEL JAVAUX FRA
28.68 TERRY BOYES GBR
29.02 T. OZAWA JPN
29.38 J. WILLIAMS AUS

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

29.40	M. KAMIYA	JPN	1:22.89	JOHN GOODE	USA	100	M. I.M.		5:58.86	KARL-OTTO MODIN	SWE
29.40	JORG RICHTER	GER	1:23.97	HANS ANDERSSON	SWE	1:14.16	TERRY BOYES	GBR	800	M. FREE	
29.40	KLAUS FELLMER	GER	200	M. BACK		1:14.30	T. AOYAMA	JPN	11:34.02	R. HARTLEY	AUS
29.40	WOLFRAM GOTTFRIED	GER	2:45.23	BURWELL JONES	USA	1:14.56	BURWELL JONES	USA	11:36.32	WILLIAM PHILLIPS	USA
29.50	Y. KITAMURA	JPN	2:59.70	TOM WALKER	GBR	1:15.15	JOHN KORTHEUER	USA	11:36.99	WIN WILSON	USA
100	M. FREE		3:03.45	NEIL CHAPMAN	GBR	1:15.28	H. KATO	JPN	12:12.34	RUDOLF DIEHR	GER
1:02.17	BOB BAILIE	USA	3:06.70	ROGER BURRELL	GBR	1:15.53	BOB BAILIE	USA	12:14.98	KEN MCKAY	GBR
1:03.62	TERRY BOYES	GBR	3:11.97	ARNIE GREEN	USA	1:16.23	BOB W. BEST	USA	12:24.47	KENNETH KIMBALL	USA
1:05.78	B. BARRY	AUS	3:12.10	JANOS LEIGH	GBR	1:16.70	WOLFRAM GOTTFRIED	GER	12:53.24	DICK BOWER	USA
1:06.17	J. WILLIAMS	AUS	3:13.51	H. HAYASHI	JPN	1:16.75	J. CRISP	AUS	13:20.78	A. DUFTY	AUS
1:06.47	BURWELL JONES	USA	3:14.31	TED LUTMAN	CAN	1:16.83	T. OZAWA	JPN	13:34.93	TED ROACH	CAN
1:07.02	M. KAMIYA	JPN	3:15.16	K. SAEKI	JPN	200	M. I.M.		13:49.81	C. KURITA	JPN
1:07.06	PETER BARTSCHI	SUI	3:16.10	LLOYD SKRAMSTAD	USA	2:41.86	BURWELL JONES	USA	1500	M. FREE	
1:07.37	R. DREW	AUS	50	M. BRST		2:43.63	TERRY BOYES	GBR	21:46.98	WIN WILSON	USA
1:08.23	BO AMNELL	SWE	35.68	JOHN KORTHEUER	USA	2:52.11	BOB W. BEST	USA	22:11.81	WILLIAM PHILLIPS	USA
1:08.60	S. MUROBAYASHI	JPN	36.15	PETER BELL	CAN	2:52.52	MICHEL JAVAUX	FRA	22:39.36	PETER BUCKLEY	USA
200	M. FREE		36.30	LUTE RESOW	GER	2:54.12	H. KATO	JPN	23:18.75	KENNETH KIMBALL	USA
2:21.68	BURWELL JONES	USA	36.50	KLAUS FELLMER	GER	2:55.49	THOMAS WALKER	GBR	24:28.29	DON KORTEN	USA
2:21.87	TERRY BOYES	GBR	36.64	TOM WALKER	GBR	2:56.73	TOM WALKER	GBR	24:32.94	DICK BOWER	USA
2:28.17	B. BARRY	AUS	36.86	BOB W. BEST	USA	2:57.51	JOHN KORTHEUER	USA	25:27.85	TED ROACH	CAN
2:29.20	JOSH REYNOLDS	GBR	37.00	WERNER MULLER	GER	2:57.74	RAY BURNS	USA	26:34.02	M. HOSHI	JPN
2:30.80	KLAUS FELLMER	GER	37.34	DON BIDWELL	NZL	2:58.18	HERB KERN	USA	27:08.07	A. WATANABE	JPN
2:32.10	M. KAMIYA	JPN	37.48	T. OZAWA	JPN	400	M. I.M.		27:31.89	DAN GRUENDER	USA
2:35.59	C.LEBOURGEOIS	USA	37.52	GERD DIECKVOB	GER	5:54.63	BURWELL JONES	USA	50	M. BACK	
2:37.14	H. KATSUKI	JPN	100	M. BRST		6:19.95	TOM WALKER	GBR	37.00	K.KLAUSTERMEYER	GER
2:37.21	P. BENT	AUS	1:19.85	PETER BELL	CAN	6:23.88	C.LEBOURGEOIS	USA	37.36	Z. NAKAHARI	JPN
2:37.30	GEROLAMO FORLANI	ITA	1:20.93	JOHN KORTHEUER	USA	6:35.62	T. OKAMORI	JPN	38.00	GUNTER BEHNERT	GER
400	M. FREE		1:21.45	K. HISAMATSU	JPN	6:39.26	HERB KERN	USA	38.62	ROBERT MCCLURE	NZL
5:00.99	BURWELL JONES	USA	1:21.49	TOM WALKER	GBR	6:45.98	WILLIAM LAUER	USA	39.10	S. SHIDA	JPN
5:22.50	PETER BARTSCHI	SUI	1:22.69	LUTE RESOW	GER	6:46.57	GORDON GILLIN	USA	39.55	N. MIYANO	JPN
5:25.31	JOSH REYNOLDS	GBR	1:23.82	T. OZAWA	JPN	7:06.74	JOHN GOODE	USA	39.60	GUSTAF HELLSING	SWE
5:29.43	BO AMNELL	SWE	1:24.40	HARTMUT LEMCKE	GER	7:08.51	PAUL GEITHNER	USA	39.70	S. HAMAOKA	JPN
5:31.30	C.LEBOURGEOIS	USA	1:24.49	GERD DIECKVOB	GER	7:08.67	DAVID LAMOTT	USA	39.79	F. YANAGIZAWA	JPN
5:34.49	RAY BURNS	USA	1:24.65	KAI CHRISTIANSEN	DEN				39.90	KEN KIMBALL	USA
5:37.20	GEROLAMO FORLANI	ITA	1:25.00	WERNER MULLER	GER	**********		**********	100	M. BACK	
5:37.33	M. KAMIYA	JPN	200	M. BRST			M E N 60-64		1:21.90	I. NYEKI	HUN
5:38.18	JOHN RIDLAND	USA	2:57.08	PETER BELL	CAN	**********		**********	1:26.81	DUANE DRAVES	USA
5:38.56	T. OKAMORI	JPN	2:58.89	TOM WALKER	GBR	50	M. FREE		1:26.89	KARL-OTTO MODIN	SWE
800	M. FREE		3:05.66	BOB W. BEST	USA	28.06	RICHARD MUELLER	GER	1:27.05	H. HAYASHI	JPN
11:09.72	C.LEBOURGEOIS	USA	3:07.56	HAL F STOLZ	USA	29.18	CHARLES BALDWIN	USA	1:27.13	KENNETH KIMBALL	USA
11:27.96	JOSH REYNOLDS	GBR	3:09.26	JOHN KORTHEUER	USA	29.36	KARL SMITS	NED	1:27.98	ROBERT MCCLURE	NZL
11:48.46	H. KATSUKI	JPN	3:12.05	GEROLAMO FORLANI	ITA	29.37	HAL BEGEL	USA	1:28.11	GUSTAF HELLSING	SWE
11:51.41	J. WILLIAMS	AUS	3:15.59	T. OZAWA	JPN	29.80	GERHARD JUSTUS	GER	1:28.59	FORREST SULLIVAN	USA
11:56.05	POUL NORFAST	DEN	3:17.40	O.BERTUCCELLI	ITA	30.13	S. YANO	JPN	1:29.72	N. MIYANO	JPN
12:00.27	M. KAMIYA	JPN	3:18.82	DON BIDWELL	NZL	30.14	FRITZ KLAPPROTH	GER	1:30.72	GORDON H. GILLIN	USA
12:05.62	CHARLES MAAS	USA	3:24.04	NICHOLAS BERENYI	USA	30.31	DICK BOWER	USA	200	M. BACK	
12:08.61	T. OKAMORI	JPN	50	M. FLY		30.34	JOHN BELL	CAN	3:07.87	DUANE DRAVES	USA
12:12.76	ART SCOTT	USA	31.08	BOB BAILIE	USA	30.38	Z. NAKAHARI	JPN	3:08.90	Z. NAKAHARI	JPN
12:32.00	J. HAWTHORNE	AUS	31.87	WALLY DOBLER	USA	100	M. FREE		3:10.18	H. HAYASHI	JPN
1500	M. FREE		32.07	M. KAMIYA	JPN	1:05.52	CHARLES BALDWIN	USA	3:13.37	FORREST SULLIVAN	USA
20:03.24	BURWELL JONES	USA	32.60	T. OZAWA	JPN	1:05.53	HAL BEGEL	USA	3:15.16	KEN MCKAY	GBR
21:19.89	C.LEBOURGEOIS	USA	32.60	HEINZ BUHRE	GER	1:07.08	F. EGAMI	JPN	3:15.18	KENNETH KIMBALL	USA
22:01.23	JOHN RIDLAND	USA	32.66	JOHN KORTHEUER	USA	1:09.10	I. NYEKI	HUN	3:18.17	DON KORTEN	USA
22:25.66	H. KATSUKI	JPN	33.04	GERARD SALELLES	FRA	1:09.57	DICK BOWER	USA	3:19.20	ROBERT MCCLURE	NZL
22:49.52	CHARLES MAAS	USA	33.10	WERNER MULLER	GER	1:09.61	BOB HERITTER	USA	3:27.50	SILVANO DANIELI	ITA
22:57.72	M. KAMIYA	JPN	33.36	BRIAN MAURICE	GBR	1:10.60	WIM GEURTSEN	NED	3:28.00	ARTHUR FRIEDLAND	USA
22:58.47	JIM BIGLER	USA	33.41	J. CRISP	AUS	1:10.95	JOHN BELL	CAN	50	M. BRST	
23:03.55	T. OKAMORI	JPN	33.41	TERRY BOYES	GBR	1:11.24	WILLIAM PHILLIPS	USA	37.05	JOHN SERVICE	CAN
23:28.78	RONNIE JOHNSTON	GBR	100	M. FLY		1:11.47	Z. NAKAHARI	JPN	38.00	WILLI BECKER	GER
23:36.26	ART SCOTT	USA	1:13.47	WALLY DOBLER	USA	200	M. FREE		38.15	JOSEPH KURTZMAN	USA
50	M. BACK		1:17.26	M. KAMIYA	JPN	2:32.34	WILLIAM PHILLIPS	USA	38.30	JOST ROSENKRANTZ	GER
34.60	S. SEKIGAWA	JPN	1:18.06	T. ENOMOTO	JPN	2:34.24	PETER BUCKLEY	USA	38.30	BRUNELLO GRAJA	ITA
34.91	TERRY BOYES	GBR	1:21.70	WERNER MULLER	GER	2:35.08	DANIEL MALONE	USA	38.50	FRITZ KLAPPROTH	GER
35.36	BURWELL JONES	USA	1:21.82	VINCENT MILLER	GBR	2:37.87	BOB HERITTER	USA	38.80	GUNTER KUHNEL	GER
35.58	BARR CLAYSON	USA	1:22.03	C.LEBOURGEOIS	USA	2:38.59	Z. NAKAHARI	JPN	39.20	GERHARD JUSTUS	GER
35.71	B. BARRY	AUS	1:22.49	ARTHUR WELCH	USA	2:42.65	DICK BOWER	USA	39.37	Z. NAKAHARI	JPN
35.90	ROLF SCHADENBERG	GER	1:23.10	T. IWAMOTO	JPN	2:45.30	HAL BEGEL	USA	39.45	T. TAJIMA	JPN
35.94	JOHN GOODE	USA	1:23.16	T. HAYASHI	JPN	2:46.98	SIS SALEK	NZL	100	M. BRST	
36.13	H. KATO	JPN	1:23.20	SEYMOUR BANNING	GBR	2:47.50	RUDI DIEHR	GER	1:23.50	BRUNELLO GRAJA	ITA
36.42	P. BENT	AUS	200	M. FLY		2:48.81	KENNETH KIMBALL	USA	1:23.89	JOHN SERVICE	CAN
36.52	VINCENT MILLER	GBR	3:00.34	T. ENOMOTO	JPN	400	M. FREE		1:26.20	FRITZ KLAPPROTH	GER
100	M. BACK		3:04.79	C.LEBOURGEOIS	USA	5:29.94	WILLIAM PHILLIPS	USA	1:28.32	CHARLES BALDWIN	USA
1:17.78	S. SEKIGAWA	JPN	3:07.45	M. KAMIYA	JPN	5:30.87	PETER BUCKLEY	USA	1:29.68	ESKO SALONEN	SWE
1:18.97	BARR CLAYSON	USA	3:08.36	SEYMOUR BANNING	GBR	5:36.52	BOB HERITTER	USA	1:29.98	T. TAJIMA	JPN
1:19.09	T. ENOMOTO	JPN	3:08.47	BURWELL JONES	USA	5:38.25	WIN WILSON	USA	1:31.50	SILVANO DANIELI	ITA
1:20.92	VINCENT MILLER	GBR	3:16.64	HERB KERN	USA	5:48.97	KEN MCKAY	GBR	1:32.01	A. DUFTY	AUS
1:21.27	IVOR POPE	GBR	3:21.29	WILLIAM LAUER	USA	5:51.76	ROGER FRANKS	USA	1:32.17	J. NAKAMURA	JPN
1:21.47	B. BARRY	AUS	3:27.15	R. SMITH	AUS	5:55.51	KEN KIMBALL	USA	1:32.75	T. SHIKANO	JPN
1:21.92	NEIL CHAPMAN	GBR	3:27.22	MIKE TORSNEY	CAN	5:58.04	LEN GOLDSTONE	USA	200	M. BRST	
1:22.55	G. TABUCHI	JPN	3:29.52	PAUL ALVAREZ	GBR	5:58.35	SIS SALEK	NZL	3:05.50	BRUNELLO GRAJA	ITA

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

3:10.93 JOHN SERVICE CAN
3:26.38 DAN GRUENDER USA
3:28.16 ARNIE FORMO USA
3:28.91 WILLIAM AUSTIN USA
3:30.10 TOM LOGAN NZL
3:30.54 S. SAMEJIMA JPN
3:31.72 EDWARD CLARKE GBR
3:32.34 JOSEPH KURTZMAN USA
3:33.10 T. SHIKANO JPN

50 M. FLY

32.59 HAL BEGEL USA
32.68 CHARLES BALDWIN USA
33.91 Z. NAKAHARI JPN
34.20 FRITZ KLAPPROTH GER
34.66 ALFONSO ALLEN USA
34.83 Y. TSUSHIMA JPN
35.13 JOHN SERVICE CAN
35.14 GERHARD JUSTUS GER
35.50 WILLI BECKER GER
35.62 DICK BOWER USA

100 M. FLY

1:18.70 F. EGAMI JPN
1:21.56 HAL BEGEL USA
1:22.34 JOHN SERVICE CAN
1:22.55 JOSEPH KURTZMAN USA
1:23.18 LEN GOLDSTONE USA
1:25.30 BRUNELLO GRAJA ITA
1:26.40 WIN WILSON USA
1:26.61 MIKE TORSNEY CAN
1:28.00 SILVANO DANIELI ITA
1:28.41 FRITZ KLAPPROTH GER

200 M. FLY

3:06.11 F. EGAMI JPN
3:19.48 CHARLES MOSS USA
3:23.05 MIKE TORSNEY CAN
3:35.50 WILLIAM CANNON USA
3:36.26 D. COUPE AUS
3:36.54 ART KELLEY USA
3:49.31 BILL JOHNSON CAN
3:51.40 A. DUFTY AUS
3:56.91 JOHN BAUMAN USA
3:57.00 S. SAKAMOTO JPN

100 M. I.M.

1:19.17 LEN GOLDSTONE USA
1:19.59 Z. NAKAHARI JPN
1:22.80 BRUNELLO GRAJA ITA
1:22.83 JOHN SERVICE CAN
1:23.30 LOTHAR KREMER GER
1:23.63 A. DUFTY AUS
1:23.71 CHARLES MOSS USA
1:23.74 WILLIAM IRWIN USA
1:24.32 ROBERT MCCLURE NZL
1:24.40 GUNTER BEHNERT GER

200 M. I.M.

3:02.05 CHARLES MOSS USA
3:08.22 DANIEL MALONE USA
3:09.23 ROBERT MCCLURE NZL
3:10.79 GORDON H. GILLIN USA
3:11.74 JOHN SERVICE CAN
3:12.61 WILLIAM IRWIN USA
3:12.74 LUMAN SUTTON USA
3:14.01 DUANE DRAVES USA
3:14.19 KEN MCKAY GBR
3:16.45 ERIC GUEST USA

400 M. I.M.

6:30.41 CHARLES MOSS USA
6:56.76 SIS SALEK NZL
7:01.56 DUANE DRAVES USA
7:06.16 GORDON H. GILLIN USA
7:15.63 TED ROACH CAN
7:31.18 MILTON MARKS USA
7:40.60 JOHN DAILY USA
7:46.91 S. SAMEJIMA JPN
7:51.39 JOHN BAUMAN USA
7:54.10 RICHARD DANIEL USA

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M E N 65-69
****

50 M. FREE

29.50 B.SCHLURICKE GER
29.63 FRANK M. PIEMME USA
29.94 I. IKEGAMI JPN
31.18 C.BRUNELLESCHI ITA
31.61 T. IWAGO JPN
32.17 HERB MCAULEY USA
32.23 HUGH RICHARDS USA
32.40 KARL HAUTER GER
32.40 ROBERT BLAKE USA
32.48 K. VICKERY AUS

100 M. FREE

1:07.13 FRANK M. PIEMME USA
1:10.99 T. IWAGO JPN
1:11.52 K. VICKERY AUS
1:11.61 R. BUTTON AUS
1:13.69 KEITH CARTER USA
1:13.77 HERB MCAULEY USA
1:14.95 FORBES GENTLEMAN GBR
1:15.14 K. YAMASHITA JPN
1:15.87 ROBERT BLAKE USA
1:16.18 H. KATO JPN

200 M. FREE

2:36.10 FRANK M. PIEMME USA
2:39.65 I. IKEGAMI JPN
2:43.44 K. VICKERY AUS
2:44.52 T. IWAGO JPN
2:46.99 R. BUTTON AUS
2:50.59 JOHN WOODS USA
2:52.73 FORBES GENTLEMAN GBR
2:53.09 ROBERT BLAKE USA
2:53.68 JURGEN B. SCHMIDT USA
2:53.83 H. KATO JPN

400 M. FREE

5:41.43 FRANK M. PIEMME USA
6:00.35 K. VICKERY AUS
6:13.89 JURGEN B. SCHMIDT USA
6:14.45 LEE C. ARTH USA
6:17.66 R. BUTTON AUS
6:18.51 KEL BUCKBORO CAN
6:21.03 WAYNE SHADBOLT USA
6:23.00 K. NAGAO JPN
6:25.41 JACQUES AMYOT CAN
6:26.10 KARL HEINZ KNOPS GER

800 M. FREE

11:55.05 FRANK M. PIEMME USA
12:13.44 K. VICKERY AUS
12:26.50 PAUL HUTINGER USA
12:29.25 I. IKEGAMI JPN
12:54.01 R. BUTTON AUS
13:06.96 JACQUES AMYOT CAN
13:08.55 JOHN WOODS USA
13:30.29 NORMAN DIXON GBR
13:45.45 JAMES EDWARDS USA
13:48.87 H. HORIKAWA JPN

1500 M. FREE

22:21.91 FRANK M. PIEMME USA
25:52.28 JURGEN B. SCHMIDT USA
25:54.32 WAYNE SHADBOLT USA
25:54.67 H. HORIKAWA JPN
26:39.25 GILBERT YOUNG USA
26:48.76 GLYNN JONES USA
26:50.89 M. HOSHI JPN
27:16.13 JIM EDWARDS USA
27:18.88 R. BUTTON AUS
27:22.27 HERB MCAULEY USA

50 M. BACK

35.54 PAUL HUTINGER USA
38.10 GUNTER KUHNEL GER
38.39 JOHN DILLEY USA
40.03 FRANK M. PIEMME USA
40.57 JOHN WOODS USA
40.59 FORBES GENTLEMAN GBR
41.10 B.SCHLURICKE GER
41.29 K. VICKERY AUS
41.47 GEORGE M. BRINTON USA
41.60 DUKE CIGLIC CAN

100 M. BACK

1:20.13 PAUL HUTINGER USA
1:28.06 KEL BUCKBORO CAN
1:31.12 DON BARTLETT USA
1:31.52 GEORGE M. BRINTON USA
1:32.35 WALTER SCHOBER GER
1:35.50 KARL HAUTER GER
1:35.80 LENNART LINDBERG SWE
1:36.57 JOHN DILLEY USA
1:37.54 WILFORD DOLPHIN USA
1:38.04 JAMES EDWARDS USA

200 M. BACK

2:54.25 PAUL HUTINGER USA
3:22.53 LEE C. ARTH USA
3:24.17 JOHN WOODS USA
3:30.65 GEORGE M. BRINTON USA
3:32.04 WILFORD DOLPHIN USA
3:34.87 CALVIN BARNES USA
3:36.13 ROBERT WIEGAND USA
3:36.37 JOHN DILLEY USA
3:41.14 B. GASTON AUS
3:41.46 JOHN CRANCH USA

50 M. BRST

38.53 KARL HEINZ KNOPS GER
39.36 T. TAJIMA JPN
39.50 KARL HAUTER GER
39.73 I. IKEGAMI JPN
39.80 OTTO GORW GER
39.90 ROLF STOCKHAUSEN GER
41.00 FARDI PENKE GER
41.11 FRANK M. PIEMME USA
41.70 ADOLF SCHOTT GER
41.71 LEE C. ARTH USA

100 M. BRST

1:27.85 KARL HEINZ KNOPS GER
1:28.59 I. IKEGAMI JPN
1:28.60 KARL HAUTER GER
1:30.12 T. TAJIMA JPN
1:32.40 EDWARD RUDLOFF USA
1:33.95 LEE C. ARTH USA
1:36.66 HENRY KIVI CAN
1:37.38 JACQUES AMYOT CAN
1:37.51 KEL BUCKBORO CAN
1:38.68 ALWYN MANLEY NZL

200 M. BRST

3:18.20 I. IKEGAMI JPN
3:26.90 LEE C. ARTH USA
3:34.48 JACQUES AMYOT CAN
3:36.44 EDWARD RUDLOFF USA
3:37.79 HENRY KIVI CAN
3:45.15 NORM GARSOE USA
3:48.91 S. FUKUHARA JPN
3:50.60 MAURO LOMBARDI ITA
3:51.74 ROBERT MORRISON USA
3:54.40 H. MIYAKE JPN

50 M. FLY

33.63 FRANK M. PIEMME USA
34.28 PAUL HUTINGER USA
36.30 KARL HEINZ KNOPS GER
37.47 HUGH RICHARDS USA
38.00 KARL HAUTER GER
38.09 HERB MCAULEY USA
38.68 JURGEN B. SCHMIDT USA
38.70 OTTO GORW GER
38.98 C.BRUNELLESCHI ITA
38.98 LEE C. ARTH USA

100 M. FLY

1:24.43 KEITH CARTER USA
1:25.60 FRANK M. PIEMME USA
1:25.67 KARL HEINZ KNOPS GER
1:29.50 KARL HAUTER GER
1:34.17 LEE C. ARTH USA
1:34.99 B.ANDERSSON SWE
1:39.61 JACQUES AMYOT CAN
1:42.10 H. UEDA JPN
1:43.31 ART KELLEY USA
1:46.15 N. YAMAZAKI JPN

200 M. FLY

3:13.40 KARL HEINZ KNOPS GER
3:28.36 KEITH CARTER USA
3:29.17 LEE C. ARTH USA
3:40.55 EDWARD RUDLOFF USA
3:47.66 ART KELLEY USA
3:57.07 N. YAMAZAKI JPN
4:14.75 K. VICKERY AUS
4:24.81 CLARENCE WEBB USA
4:30.27 IRVING BONAWITZ USA
4:43.21 HERB MCAULEY USA

100 M. I.M.

1:20.29 FRANK M. PIEMME USA
1:25.20 KARL HEINZ KNOPS GER
1:25.50 KARL HAUTER GER
1:25.67 KEITH CARTER USA
1:26.40 I. IKEGAMI JPN
1:28.80 K. VICKERY AUS
1:28.94 LEE C. ARTH USA
1:29.09 R. BUTTON AUS
1:29.11 B.ANDERSSON SWE
1:29.82 DON BARTLETT USA

200 M. I.M.

3:03.80 FRANK M. PIEMME USA
3:16.61 EDWARD RUDLOFF USA
3:16.68 LEE C. ARTH USA
3:21.91 K. VICKERY AUS
3:25.66 T. YAMADA JPN
3:28.17 JACQUES AMYOT CAN
3:35.46 HENRY KIVI CAN
3:38.13 H. UEDA JPN
3:43.00 GEORGE M. BRINTON USA
3:43.50 ROBERT WRIGHT USA

400 M. I.M.

6:42.13 FRANK M. PIEMME USA
6:50.10 KARL HEINZ KNOPS GER
7:03.52 LEE C. ARTH USA
7:07.71 KEITH CARTER USA
7:19.17 EDWARD RUDLOFF USA
7:23.53 K. VICKERY AUS
7:37.87 JACQUES AMYOT CAN
8:06.79 ART KELLEY USA
8:33.43 HERB MCAULEY USA
8:49.14 BILL OAKES GBR

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M E N 70-74
****

50 M. FREE

32.48 ANDREW HOLDEN USA
32.77 T. NAKAJIMA JPN
33.33 D. JOY AUS
33.56 T. MYOJIN JPN
33.70 BARNETT PHILLIPS USA
34.05 LYNN SURLES USA
34.10 KURT JANITZKI GER
34.13 J. TSUBOTA JPN
34.19 WILLIAM JOHNSTON USA
34.80 HEINZ ARENDT GER

100 M. FREE

1:18.06 RAY TAFT USA
1:18.86 BOB MERRICK USA
1:19.51 J. TSUBOTA JPN
1:19.84 STEVE P. CARLSON USA
1:19.98 LYNN SURLES USA
1:20.25 ALDO DAROSA USA
1:20.46 D. JOY AUS
1:23.31 BILL ODMAN USA
1:23.40 STAN BOARDMAN NZL
1:23.42 B. ALLERTON AUS
1:23.42 G. WILLIAMS AUS

200 M. FREE

2:53.98 STEVE P. CARLSON USA
2:56.19 GERALD HUESTIS USA
2:57.46 RAY TAFT USA
2:58.38 BOB MERRICK USA
2:59.50 BILL ODMAN USA
3:02.86 J. JENKINS AUS
3:05.22 GEORGE HUBBELL USA
3:05.60 OTTO CLAUS GER
3:06.46 HARRY BARTLETT USA
3:08.77 N. OKADA JPN

400 M. FREE

6:19.59 STEVE P. CARLSON USA
6:32.90 BOB MERRICK USA
6:33.69 N. OKADA JPN
6:42.80 BROER LAMER NED

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

6:45.89	LYNN SURLES	USA	1:44.84	WILLI WINDEL	GER	100 M. FREE			4:22.66	SYD HENDY	USA
6:59.62	HARWELL MOSELEY	USA	1:46.03	PHIL MERRYWEATHER	GBR	1:20.00	HELMUT BOTTCHER	GER	4:23.90	FRANK TILLOTSON	USA
7:06.05	S. AKIYAMA	JPN	1:47.56	FORBES MACK	USA	1:22.60	OTTO CLAUS	GER	4:36.96	ED S. ALLEN JR.	USA
7:11.00	JAMES FEENAN	USA	200 M. BRST			1:22.68	DEXTER WOODFORD	USA	4:37.12	BERT KASSELL	USA
7:17.54	HARRY BARTLETT	USA	3:33.80	Y. MIYAMOTO	JPN	1:27.18	STAN BOARDMAN	NZL	4:43.23	OTTO WULFF	USA
7:18.60	JOHN HAAKE	USA	3:38.57	BOB MERRICK	USA	1:29.21	T. CADDY	AUS	50 M. BRST		
800 M. FREE			3:43.09	ROY ROMAIN	GBR	1:29.59	WOODY BOWERSOCK	USA	42.99	H. YOSHIMOTO	JPN
13:19.27	HEINZ ARENDT	GER	3:45.55	PAUL KRUP	USA	1:30.05	S. NOBEHARA	JPN	45.20	ADOLF LONTZ	GER
14:00.68	BOB MERRICK	USA	4:01.58	GEORGE HUBBELL	USA	1:30.21	BERT KASSELL	USA	45.92	JERRY EVERALL	USA
14:01.97	N. OKADA	JPN	4:03.67	MICHAEL BERG	GBR	1:30.23	S. MOCHIZUKI	JPN	47.70	GIORDANO RAGGI	ITA
14:26.41	HARWELL MOSELEY	USA	4:07.03	BUD JACKSON	USA	1:30.87	A. NAKAMURA	JPN	47.72	MIKE OFFNER	USA
14:48.39	S. IWASAKI	JPN	4:14.34	FORBES MACK	USA	200 M. FREE			48.46	EDWIN WOLPAW	USA
14:54.84	J. HASEGAWA	JPN	4:21.46	M. HAGIHARA	JPN	3:11.79	DEXTER WOODFORD	USA	49.50	HEINZ MIER	GER
15:09.63	S. AKIYAMA	JPN	4:25.32	T. UMETSUJI	JPN	3:19.20	STAN BOARDMAN	NZL	49.97	M. GOTO	JPN
15:14.02	BUD JACKSON	USA	50 M. FLY			3:23.38	GENE CROSSETT	USA	50.70	WALTER STEEB	GER
15:45.47	S. EGUCHI	JPN	36.09	ANDREW HOLDEN	USA	3:30.01	T. CADDY	AUS	51.10	ENZO LOMBARDI	ITA
15:47.00	RAY AVERETT	USA	39.37	ROY ROMAIN	GBR	3:36.44	WOODY BOWERSOCK	USA	100 M. BRST		
1500 M. FREE			39.48	Y. MIYAMOTO	JPN	3:37.04	FRED COOK	CAN	1:42.05	DON MCCULLOUGH	USA
26:33.71	BOB MERRICK	USA	40.44	PAUL KRUP	USA	3:40.02	BOB TAYLOR	GBR	1:43.18	JERRY EVERALL	USA
26:47.09	N. OKADA	JPN	41.00	WALTER MINNICH	GER	3:41.37	GIL SPEAR	USA	1:50.97	MIKE OFFNER	USA
27:58.95	J. HASEGAWA	JPN	41.15	HARWELL MOSELEY	USA	3:49.45	S. SIMPSON	AUS	1:51.30	ADOLF LONTZ	GER
28:20.76	S. IWASAKI	JPN	41.20	GERHARD HEIN	GER	3:50.04	RUDOLF HINTZE	GER	1:51.70	GIORDANO RAGGI	ITA
29:46.53	RAY AVERETT	USA	42.49	WILLIAM JOHNSTON	USA	400 M. FREE			1:54.51	EDWIN WOLPAW	USA
30:05.92	S. EGUCHI	JPN	42.73	BILL UHRICH	USA	6:38.64	DEXTER WOODFORD	USA	1:56.50	HEINZ MIER	GER
30:38.91	K. WADA	JPN	42.85	BOB MERRICK	USA	7:13.95	GENE CROSSETT	USA	2:00.70	ENZO LOMBARDI	ITA
31:22.91	ERNEST CLEMETT	GBR	100 M. FLY			7:22.78	STAN BOARDMAN	NZL	2:03.75	NORMAN PATON	CAN
31:45.60	FRANCO PAGGETTI	ITA	1:34.82	PAUL KRUP	USA	7:55.71	SYD HENDY	USA	2:03.82	T. YONEDA	JPN
31:52.13	ROGER CHAMBERLAIN	USA	1:39.03	HARWELL MOSELEY	USA	7:56.01	WOODY BOWERSOCK	USA	200 M. BRST		
50 M. BACK			1:40.82	ROY ROMAIN	GBR	8:13.53	GIL SPEAR	USA	3:36.71	DON MCCULLOUGH	USA
40.40	H. MIYAZAKI	JPN	1:44.40	Y. MIYAMOTO	JPN	8:23.40	BRUNO MEZZALIRA	ITA	3:52.12	JERRY EVERALL	USA
41.00	GERHARD HEIN	GER	1:47.31	JOHN BRICKER	USA	8:40.00	FRANK TILLOTSON	USA	4:02.69	MIKE OFFNER	USA
41.05	A.WEGHE	USA	1:48.03	WILLIAM JOHNSTON	USA	8:45.02	A. BURGOYNE	AUS	4:08.38	DEXTER WOODFORD	USA
42.20	WILLI WINDEL	GER	1:54.35	ROGER CHAMBERLAIN	USA	9:11.76	J. AZUMA	JPN	4:23.60	GIORDANO RAGGI	ITA
42.29	BOB MERRICK	USA	2:05.48	AL ALVAREZ	GBR	800 M. FREE			4:31.72	ROMAN JEZEK	CAN
42.68	T. MYOJIN	JPN	2:07.80	T. YAMAGUCHI	JPN	14:16.82	DEXTER WOODFORD	USA	4:34.45	CARL THORNBURG	USA
42.70	GERD HOTZ	GER	2:20.90	B.BRUSCANTINI	ITA	15:46.44	WOODY BOWERSOCK	USA	4:51.30	ENZO LOMBARDI	ITA
43.35	NILS FERM	SWE	200 M. FLY			17:19.66	FRANK TILLOTSON	USA	4:51.68	DERRICK DAVEY	GBR
43.80	CARL SCHERER	GER	3:42.06	PAUL KRUP	USA	17:19.94	DOC SCHOFIELD	USA	5:02.78	FRANK TILLOTSON	USA
44.40	RUDI HOFFMANN	GER	4:18.21	WILLIAM JOHNSTON	USA	18:47.61	LEONARD BRISCO	USA	50 M. FLY		
100 M. BACK			4:47.52	AL ALVAREZ	GBR	19:42.61	C.J. HAMILTON	USA	44.10	ADOLF LONTZ	GER
1:30.00	H. MIYAZAKI	JPN	100 M. I.M.			20:22.66	A. CLARKE	AUS	47.00	HELMUT BOTTCHER	GER
1:32.81	A.WEGHE	USA	1:30.59	BOB MERRICK	USA	20:23.25	EUGENE LEHMAN	CAN	47.71	WILLIAM GRANT	USA
1:33.72	GERALD HUESTIS	USA	1:31.10	WALTER MINNICH	GER	20:33.09	RICHARD KANE	USA	48.67	JESSE COON	USA
1:34.03	WILLI WINDEL	GER	1:31.95	GERALD HUESTIS	USA	21:35.25	K. FORD	AUS	50.70	DR. HEINZ SIEGEL	GER
1:34.15	RAY TAFT	USA	1:32.92	A.WEGHE	USA	1500 M. FREE			50.96	WOODY BOWERSOCK	USA
1:36.29	BOB MERRICK	USA	1:33.81	ROY ROMAIN	GBR	26:50.44	DEXTER WOODFORD	USA	52.80	WALTER STEEB	GER
1:36.36	JOHN BRICKER	USA	1:34.80	S. MAYSAR	GER	30:26.28	WOODY BOWERSOCK	USA	53.59	BERT KASSELL	USA
1:37.10	ALDO DAROSA	USA	1:35.70	WILLI WINDEL	GER	33:04.30	BRUNO MEZZALIRA	ITA	56.02	CARL THORNBURG	USA
1:38.71	J. JENKINS	AUS	1:35.85	J. JENKINS	AUS	34:32.42	DOC SCHOFIELD	USA	58.65	NORMAN PATON	CAN
1:39.62	NILS FERM	SWE	1:37.20	HEINZ ARENDT	GER	38:13.34	EUGENE LEHMAN	CAN	100 M. FLY		
200 M. BACK			1:37.53	PHIL MERRYWEATHER	GBR	40:43.50	LEN BRISCO	USA	1:44.78	DON MCCULLOUGH	USA
3:24.72	H. MIYAZAKI	JPN	200 M. I.M.			42:20.02	K. FORD	AUS	1:56.53	ADOLF LONTZ	GER
3:26.15	JOHN BRICKER	USA	3:26.54	BOB MERRICK	USA	50 M. BACK			2:08.16	WILLIAM GRANT	USA
3:27.68	A.WEGHE	USA	3:30.84	PAUL KRUP	USA	41.60	OTTO CLAUS	GER	2:09.71	CARL THORNBURG	USA
3:28.82	RAY TAFT	USA	3:32.95	GEORGE HUBBELL	USA	42.63	T. YONEDA	JPN	2:09.96	JESSE COON	USA
3:29.14	J. JENKINS	AUS	3:34.10	ALDO DAROSA	USA	43.10	R.REINSTADTLER	GER	2:13.23	BOB BUCHANAN	NZL
3:37.31	BOB MERRICK	USA	3:38.39	HEINZ ARENDT	GER	43.13	EDWARD SHEA	USA	2:48.52	ROMAN JEZEK	CAN
3:41.79	Y. MASUKI	JPN	3:39.48	HARWELL MOSELEY	USA	45.10	HANNE SCHWARZ	GER	2:57.10	EUGENE LEHMAN	CAN
3:46.80	LUCIANO CANESSA	ITA	3:43.04	ROY ROMAIN	GBR	46.20	G. KOVACS	HUN	3:16.83	K. FORD	AUS
3:47.27	GEORGE HUBBELL	USA	3:43.06	Y. MIYAMOTO	JPN	46.47	STAN BOARDMAN	NZL	3:42.82	RICHARD KANE	USA
3:47.45	BROER LAMER	NED	3:44.99	BILL UHRICH	USA	46.54	BOB BUCHANAN	NZL	200 M. FLY		
50 M. BRST			3:48.04	JOHN BRICKER	USA	46.77	S. AZUMA	JPN	4:01.10	DON MCCULLOUGH	USA
39.90	WALTER MIANICH	GER	400 M. I.M.			47.80	ADOLF LONTZ	GER	4:55.53	JESSE COON	USA
41.26	PAUL KRUP	USA	8:38.76	Y. MASUKI	JPN	100 M. BACK			4:58.72	CARL THORNBURG	USA
41.63	Y. MIYAMOTO	JPN	9:04.90	AL ALVAREZ	GBR	1:34.84	EDWARD SHEA	USA	5:47.79	ROMAN JEZEK	CAN
42.74	ROY ROMAIN	GBR				1:38.70	T. YONEDA	JPN	8:38.34	MAX LUNA	USA
43.01	ALDO DAROSA	USA	**********			1:40.40	OTTO CLAUS	GER	100 M. I.M.		
43.90	AUGUSTO ROMANO	ITA	M E N 75-79			1:43.25	BOB BUCHANAN	NZL	1:44.75	T. YONEDA	JPN
44.50	RUDI HOFFMANN	GER	**********			1:47.80	G. KOVACS	HUN	1:45.30	ADOLF LONTZ	GER
44.58	BOB MERRICK	USA	50 M. FREE			1:50.91	BOB TAYLOR	GBR	1:46.80	HELMUT BOTTCHER	GER
44.60	KURT KAMM	GER	33.50	HELMUT BOTTCHER	GER	1:54.88	CARL THORNBURG	USA	1:47.38	EDWIN WOLPAW	USA
45.51	ROGER CHAMBERLAIN	USA	34.20	OTTO CLAUS	GER	1:57.49	ADOLF LONTZ	GER	1:50.31	WOODY BOWERSOCK	USA
100 M. BRST			34.98	WOODY BOWERSOCK	USA	1:58.07	BERT KASSELL	USA	1:50.73	WILLIAM GRANT	USA
1:33.80	WALTER MINNICH	GER	36.00	T. YAMAO	JPN	1:58.07	SYD HENDY	USA	1:50.80	R.REINSTADTLER	GER
1:36.37	ALDO DAROSA	USA	36.48	BERT KASSELL	USA	200 M. BACK			1:53.70	ERNST LEITERMANN	GER
1:37.43	Y. MIYAMOTO	JPN	36.54	A. NAKAMURA	JPN	3:28.13	EDWARD SHEA	USA	1:54.18	R. YAMASAKI	JPN
1:39.16	PAUL KRUP	USA	37.36	T. CADDY	AUS	3:37.42	T. YONEDA	JPN	1:56.68	BERT KASSELL	USA
1:39.44	BOB MERRICK	USA	37.80	R.REINSTADTLER	GER	3:49.72	BOB BUCHANAN	NZL	200 M. I.M.		
1:42.61	ROY ROMAIN	GBR	37.92	S. MOCHIZUKI	JPN	4:00.20	BOB TAYLOR	GBR	4:11.39	CARL THORNBURG	USA
1:43.27	Y. SAKURAI	JPN	38.04	STAN BOARDMAN	NZL	4:04.07	CARL THORNBURG	USA	4:20.77	JESSE COON	USA

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

4:24.49 GIL SPEAR USA
4:34.82 WILLIAM GRANT USA
4:36.88 WOODY BOWERSOCK USA
4:59.30 ROY HODGES GBR
5:21.63 ROMAN JEZEK CAN
5:27.79 EUGENE LEHMAN CAN
5:45.59 BENOIT DROUIN CAN
5:49.63 K. FORD AUS

400 M. I.M.

7:49.45 DON MCCULLOUGH USA
9:11.50 CARL THORNBURG USA
11:01.87 ROMAN JEZEK CAN
11:34.11 EUGENE LEHMAN CAN
12:15.21 K. FORD AUS

****
M E N 80-84
****

50 M. FREE

38.65 T. TERAO JPN
39.09 FRANK BELLAIRE USA
40.71 DAVID MCAFEE USA
41.00 KARL WITTENBERG GER
41.59 F. GRIFFITHS AUS
42.13 DAN DOTTERWEICH USA
42.40 REINHOLD ZOGE GER
42.40 PASQUALE PIZZI ITA
42.57 WILLIAM MARQUETTE USA
43.94 BILL FARRELL NZL

100 M. FREE

1:29.06 T. TERAO JPN
1:34.82 DAVID MCAFEE USA
1:40.44 FRANK BELLAIRE USA
1:41.39 DAN DOTTERWEICH USA
1:47.87 JARING TIMMERMAN CAN
1:48.10 PASQUALE PIZZI ITA
1:50.06 FRANK STARR USA
1:50.19 S. FUKUWATARI JPN
1:52.71 BILL FARRELL NZL
1:53.18 JACK HOEY USA

200 M. FREE

3:26.46 T. TERAO JPN
3:31.97 DAVID MCAFEE USA
3:46.49 JARING TIMMERMAN CAN
3:57.25 JOHN M. BURNSIDE USA
4:16.15 FRANK STARR USA
4:28.24 JIM PENFIELD USA
4:33.30 OSVALDO BAICCHI ITA
4:44.72 DON NEEFE USA
4:44.84 A. BURGOYNE AUS
6:06.90 K. MATSUMOTO JPN

400 M. FREE

7:33.09 T. TERAO JPN
8:07.72 DAVID MCAFEE USA
8:07.83 JARING TIMMERMAN CAN
8:35.47 JOHN M. BURNSIDE USA
9:42.97 A. BURGOYNE AUS
11:56.67 M. OTAKI JPN
12:18.06 JAMES KIERNAN USA

800 M. FREE

16:00.18 T. TERAO JPN
20:29.20 A. BURGOYNE AUS

1500 M. FREE

34:39.17 JOHN M. BURNSIDE USA
40:44.99 A. BURGOYNE AUS

50 M. BACK

46.85 T. TERAO JPN
50.20 ERWIN FUCHS GER
51.60 KARL WITTENBERG GER
51.99 JACK HOEY USA
52.90 BILL FARRELL NZL
53.00 PASQUALE PIZZI ITA
55.22 N. YAMAMOTO JPN
56.07 WILLIAM MARQUETTE USA
56.45 HERMANN DEUTZMANN GER
56.70 RUDI SCHUBERT GER

100 M. BACK

1:45.81 T. TERAO JPN
1:53.61 JACK HOEY USA
2:02.50 PASQUALE PIZZI ITA

2:07.21 HERB EISENSCHMIDT USA
2:17.51 BILL FARRELL NZL
2:19.62 S. FUKUWATARI JPN
2:27.62 A. BURGOYNE AUS
2:28.78 WILLIAM SHARE USA
2:38.40 HARRY JAGGERS USA
2:44.26 JACK MCBRIDE CAN

200 M. BACK

4:12.31 JACK HOEY USA
4:29.31 HERB EISENSCHMIDT USA
5:05.56 A. BURGOYNE AUS
5:12.54 H. FUJII JPN
5:24.63 WILLIAM SHARE USA
5:36.13 HARRY JAGGERS USA
5:48.24 DON NEEFE USA
5:55.22 K. MATSUMOTO JPN

50 M. BRST

45.52 KARL WITTENBERG GER
50.10 REINHOLD ZOGE GER
53.48 K. KOYAMA JPN
54.10 JIM MCDIARMID CAN
54.63 HERMANN DEUTZMANN GER
55.60 F.MEERWALD GER
56.80 ERIK POCH DEN
56.80 PASQUALE PIZZI ITA
57.00 K.KNEIDING GER
57.20 RUDI SCHUBERT GER

100 M. BRST

2:05.80 JIM MCDIARMID CAN
2:08.06 DAN DOTTERWEICH USA
2:09.21 K. KOYAMA JPN
2:14.52 WILLIAM SHARE USA
2:16.11 HERMANN DEUTZMANN GER
2:18.21 CHESTER KOZLOWSKI GBR
2:28.40 LUIGI DAVOGLIO ITA
2:35.56 B. COLQUHOUN AUS
2:37.67 A. BURGOYNE AUS
3:11.21 Y. TOBASE JPN

200 M. BRST

5:04.09 CHESTER KOZLOWSKI GBR
5:05.51 WILLIAM SHARE USA
5:31.56 A. BURGOYNE AUS

50 M. FLY

52.00 REINHOLD ZOGE GER
53.57 JOHN M. BURNSIDE USA
55.70 KARL WITTENBERG GER
58.30 LUIGI DAVOGLIO ITA
1:01.07 JIM PENFIELD USA
1:05.23 N. YAMAMOTO JPN
1:15.97 FRANK STARR USA
1:18.42 S. SHIGITANI JPN

100 M. I.M.

1:53.80 KARL WITTENBERG GER
1:56.86 T. TERAO JPN
2:03.69 F. GRIFFITHS AUS
2:05.10 LUIGI DAVOGLIO ITA
2:05.15 JOHN M. BURNSIDE USA
2:08.50 REINHOLD ZOGE GER
2:09.26 JIM PENFIELD USA
2:11.19 HERB EISENSCHMIDT USA
2:15.82 FRANK STARR USA
2:17.42 N. YAMAMOTO JPN

200 M. I.M.

4:41.01 HERB EISENSCHMIDT USA
4:53.34 LUIGI DAVOGLIO ITA

400 M. I.M.

9:47.43 HERB EISENSCHMIDT USA

****
M E N 85-89
****

50 M. FREE

45.20 GUS LANGNER USA
45.32 MAXWELL VOGT USA
54.20 MANLIO COSTOLI ITA
55.86 N. BABA JPN
58.28 JOE KAUFMAN USA

100 M. FREE

1:48.31 GUS LANGNER USA
1:48.82 MAXWELL VOGT USA
2:05.70 R. WILLIAMS AUS
2:11.70 MANLIO COSTOLI ITA
2:15.11 JOE KAUFMAN USA

200 M. FREE

3:59.19 GUS LANGNER USA
4:56.14 JOE KAUFMAN USA

400 M. FREE

8:16.16 GUS LANGNER USA

1500 M. FREE

33:03.74 GUS LANGNER USA

50 M. BACK

57.97 PETER JURCZYK USA
1:12.68 GUS LANGNER USA
1:24.37 R. WILLIAMS AUS

100 M. BACK

2:12.69 PETER JURCZYK USA
2:32.19 JOE KAUFMAN USA
2:49.26 GUS LANGNER USA

200 M. BACK

4:55.62 PETER JURCZYK USA
5:23.27 JOE KAUFMAN USA
6:01.94 GUS LANGNER USA

50 M. BRST

1:14.88 GUS LANGNER USA
1:34.03 R. WILLIAMS AUS
1:34.20 MANLIO COSTOLI ITA

100 M. BRST

2:48.35 GUS LANGNER USA
3:22.00 MANLIO COSTOLI ITA

200 M. BRST

5:48.70 GUS LANGNER USA

50 M. FLY

1:28.27 PETER JURCZYK USA
1:47.84 GUS LANGNER USA

100 M. I.M.

2:25.09 PETER JURCZYK USA
2:49.53 GUS LANGNER USA

200 M. I.M.

5:54.83 GUS LANGNER USA

****
M E N 90-94
****

50 M. FREE

1:14.38 PAUL E. SPANGLER USA

100 M. FREE

2:49.33 PAUL E. SPANGLER USA

200 M. FREE

5:51.45 PAUL E. SPANGLER USA

400 M. FREE

12:18.85 PAUL E. SPANGLER USA

1500 M. FREE

51:43.20 PAUL E. SPANGLER USA

****
M E N 95-99
****

****
M E N 100-104
****
****
RELAYS: WOMEN 200 M. FREE
****
AGE 100-119

CAMDEN SWISS GBR 1:58.66
JNNEC JPN 1:58.92
BARKING GBR 2:00.33
SPENCER GBR 2:01.54
CO BRADFORD GBR 2:01.66
BARNET COPTHALL GBR 2:02.60
JNMAM-A JPN 2:04.66
JNMAM-B JPN 2:06.39
JNTAIS JPN 2:06.70
OSTERSUN SWE 2:07.57

AGE 120-159

NOVA USA 2:02.93
JANIS M. WIKANDER
MARY A. HAMILTON
SHERI F. HORWITZ
VALERIE HAGOPIAN
LIDINGO SWE 2:06.42
NORTH SHORE ZNL 2:07.05
GLENDA BIDDLE
BERNADETTE RAE
ROBIN HERRING
PAMELA MEDHURST
BRISBANE SOUTH AUS 2:07.15
CAIRNS AUS 2:08.07
NORTH SYDNEY AUS 2:09.25
MIAMI MASTERS AUS 2:09.68
BARNET COPTHALL GBR 2:11.14
JNMAN-A JPN 2:11.62
METRO B.C.N. ESP 2:12.30
CLARA ORTURO
CARMEN PAREDES
MA.TERESA SALVA
LIDIA LARROSA

AGE 160-199

PNA USA 2:10.05
CLAIRE GORDON
JULIE CORMAN
CAROL BROWN
JUANITA CORREA
NORTH SHORE ZNL 2:12.81
ROBIN HERRING
BERNADETTE RAE
GLENDA BIDDLE
JAN CLEMENTS
HELLAS SWE 2:18.37
TEA TREE GULLY AUS 2:19.09
TOWNSVILLE AUS 2:19.16
MANLY AUS 2:20.80
JNHECT-A JPN 2:21.18
NORTH SYDNEY AUS 2:21.57
JNKSSR-A JPN 2:22.64
CARINE AUS 2:23.49

AGE 200-239

SDSM USA 2:23.31
JANET H. LAMOTT
ADRIENNE S. PIPES
SUSAN RITTENHOUSE
BARBARA G. DUNBAR
INLAND EMPIRE USA 2:27.57
CAROLYN KENT
DONNA MESSENGER
EVELYN HAYES
AURORA HOLLAND
SPENCER GBR 2:27.70
JNMRS JPN 2:28.40

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

JNHECT JPN 2:31.10

CITY OF LIVERPO GBR 2:31.56

JNMAM-A JPN 2:33.90

JNMAM-B JPN 2:35.18

JNHAKY JPN 2:38.06

LEISURE COAST AUS 2:39.12

AGE 240-279

JNYHSC JPN 2:43.63

SBSC USA 2:48.58
SHIRLEY ERICKSON
GRACE ALTUS
RUTH H. BAAR
GAY C. COLLINS

CRONULLA SUTHER AUS 2:55.02

JNMAM-A JPN 3:04.81

JNHAPY JPN 3:05.02

JNKSNG JPN 3:06.51

SDSM USA 3:07.11
VIOLA THOMPSON
BOBBI TURCOTTE
ALICIA COLEMAN
DIANA SILVA

ETTALONG AUS 3:08.75

JNHAKY-A JPN 3:13.23

SPACE COAST USA 3:16.94
JEAN BEERS
SUE MCGAUGHEY
ANGIE SINACORE
BUNNY CEDERLUND

AGE 280-319

JNMAM-A JPN 3:36.30

JNMAM-B JPN 3:42.27

****

RELAYS: WOMEN 200 M. MEDLEY

****

AGE 100-119

JNNEC JPN 2:13.39

CAMDEN SWISS CO GBR 2:13.46

CO BRADFORD GBR 2:16.73

SPENCER RED GBR 2:17.46

BARNET COPTHALL GBR 2:18.13

JNMAM-A JPN 2:18.47

CITY OF COVENTR GBR 2:19.30

HULL MASTERS GBR 2:21.90

LIDINGO SWE 2:24.23

OHIO MASTERS USA 2:24.26
JUDI NORTON
PATRICIA BOWDITCH
JANE MOLINA
JENNIFER UEBELE

AGE 120-159

NORTH SHORE ZNL 2:20.78
GLENDA BIDDLE
PAMELA MEDHURST
ROBIN HERRING
BERNADETTE RAE

DONCASTER AUS 2:23.79

BARNET COPTHALL GBR 2:28.05

METRO B.C.N. ESP 2:28.42
SILVIA FONTANA
ANGELA ARTIGAS
LIDIA RIBELL
MAITE PORTELLA

SPENCER GBR 2:30.64

JNHAKY-A JPN 2:32.12

POWER POINTS AUS 2:33.05

C.N.SABADELL ESP 2:33.23
NURIA SARABIA
MARCE ALLENDE
MAGDA PAGET
DOLORS CANALS

NORTH SYDNEY AUS 2:33.56

GIPPSLAND AUS 2:33.58

AGE 160-199

NORTH SHORE ZNL 2:26.08
JAN CLEMENTS
BERNADETTE RAE
GLENDA BIDDLE
ROBIN HERRING

NORTH LODGE AUS 2:33.50

JNNEC JPN 2:36.34

ADELAIDE MAST AUS 2:37.75

HELLAS SWE 2:37.79

NEPTUN SWE 2:40.29

JNHECT JPN 2:40.29

JNOTSK JPN 2:41.04

JNMAM JPN 2:41.85

TXMS-A USA 2:42.16
CAROL FITZSIMMONS
M.MARCANTONIO
JAMIE STEWART
GAYANNE DE VRY

AGE 200-239

SPENCER GBR 2:38.95

CITY OF LIVERPO GBR 2:44.46

BRIGHTON DOL GBR 2:49.28

JNMAM-A JPN 2:53.02

JNHECT-A JPN 2:54.93

SWINDON DOL GBR 2:56.00

JNHECT-B JPN 2:58.05

SDSM USA 2:59.33
DIANA SILVA
ADRIENNE S. PIPES
SUSAN RITTENHOUSE
JANET H. LAMOTT

ST. PETE USA 2:59.92
ELAINE BROMWICH
JAYNE LAMBKE
SANDY STEER
MARY BOAZ

JNMAM-B JPN 3:01.98

AGE 240-279

SDSM USA 3:05.53
BOBBI TURCOTTE
ALICIA COLEMAN
BARBARA G. DUNBAR
VIOLA THOMPSON

JNKSMA JPN 3:14.60

JNMAM-A JPN 3:20.39

SPACE COAST USA 3:27.68
BUNNY CEDERLUND
JEAN BEERS
ANGIE SINACORE
SUE MCGAUGHEY

SBSC USA 3:27.96
GAY C. COLLINS
GRACE ALTUS
SHIRLEY ERICKSON
RUTH H. BAAR

JNHAKY-A JPN 3:31.16

CRONULLA SUTHER AUS 3:32.63

JNMAM-B JPN 3:32.80

NORTH LODGE AUS 3:34.26

JNMORM JPN 3:36.09

AGE 280-319

JNMAM-A JPN 4:12.00

JNMAM-B JPN 4:30.06

HOLMES LUMBER J USA 4:31.22
MARJORIE NEWMAN
GERTRUD ZINT
RACHEL ERWIN
MILLIE HUPP

****

RELAYS: M E N 200 M. FREE

****

AGE 100-119

NOTTINGHAM GBR 1:40.46

CAMDEN SWISS GBR 1:41.04

JNKAKY JPN 1:41.61

CITY OF LEEDS GBR 1:41.64

JNPSTR JPN 1:41.95

HILLINGDON GBR 1:43.09

JNMGAI JPN 1:44.00

LAMBERS SWE 1:44.29

JNIMSP JPN 1:44.69

BARNET COPTHALL GBR 1:45.10

AGE 120-159

LIDINGO SWE 1:43.84

JNMAM-A JPN 1:45.80

JNMAM-B JPN 1:46.36

HSAM USA 1:46.88
PATRICK A. BRUCE
STEVE SOLOMON
JERRY O'MARA
LEE MENCH

NOVA USA 1:47.81
CRAIG KAUSEN
SCOTT J. ZORNIG
DURR H. SEXTON
DAVID J. DALY

JNMAM-C JPN 1:47.90

CAIRNS AUS 1:48.36

MICHIGAN USA 1:48.54
BRENT SWEITZER
KURT GERHARDT
WILLIAM REID
ROGER LYONS

C.N. SABADELL ESP 1:48.67
JOAN LANDA
JORDI PALAU
PERE ESCOBAR
FERRAN BRIA

MYAJ USA 1:49.91
RICK LAUDUN
CHRIS PRATOR
ROBERT HUGHES
DAVID HINYUP

AGE 160-199

OHIO MASTERS USA 1:49.91
RICHARD BAUSCHARD
LOU HORWITZ
HARRY GREENFIELD
PAT SAVAGE

WARRINGAH AUS 1:50.34

NORTH SHORE ZNL 1:51.06
BARRY YOUNG
PETER MCCLURE
ANDREW PENDER
TOM KING

JNHAKY JPN 1:52.87

SPENCER GBR 1:53.05

JNSPAS JPN 1:53.25

MIAMI MASTERS AUS 1:53.59

JNRSJS JPN 1:54.43

JNSOSI JPN 1:54.59

BORL.SS SWE 1:55.12

AGE 200-239

JNFLPS-A JPN 1:55.04

MOTHERWELL GBR 1:57.17

HELLAS-1 SWE 1:57.33

WATFORD GBR 1:58.28

SDSM USA 1:58.36
KENNETH KIMBALL
WILLIAM PHILLIPS
BILL EARLEY
WILLIE WACHOB

JNFLPS-B JPN 1:58.82

BRISTOL GBR 1:58.90

JNWSTN JPN 1:59.40

JNKNAG JPN 1:59.70

JNJSKC JPN 1:59.94

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AGE 240-279

JNMAM-A	JPN	2:11.61
HELLAS-1	SWE	2:12.32
JNMAM-B	JPN	2:14.67
JNNSSK	JPN	2:20.33
MANLY	AUS	2:21.10
JNANTA	JPN	2:22.58
JNNSFB	JPN	2:25.46
JNHAKY	JPN	2:26.37
JNNEC	JPN	2:26.83
CAIRNS	AUS	2:28.84

AGE 280-319

OREGON	USA	2:13.84
EARL WALTER		
FORBES MACK		
GERALD HUESTIS		
ANDREW HOLDEN		
LBM	USA	2:35.43
ED S. ALLEN JR.		
ERNEST VAN HORN		
WOODY BOWERSOCK		
EMILE W. ACHEE		
MANLY	AUS	2:42.19
JNSPRM	JPN	2:45.52
JNHESK-A	JPN	2:47.39
NEPTUN	SWE	2:48.29
JNHESK-B	JPN	2:48.85
JNRS88	JPN	2:56.23
INGLEWOOD	AUS	2:57.31
HELLAS	SWE	3:01.31

****
RELAYS: M E N 200 M. MEDLEY
****

AGE 100-119

NOTTINGHAM	GBR	1:53.55
LAMBERS	SWE	1:55.00
CITY OF LEEDS	GBR	1:55.11
BARNET COPTHALL	GBR	1:55.74
HILLINGDON	GBR	1:57.06
JNPSTR	JPN	1:57.06
CAMDEN SWISS	GBR	1:57.42
JNHAKY	JPN	1:57.96
JNSFSD	JPN	1:58.32
JNNGAI	JPN	1:58.67

AGE 120-159

JNMAM-A	JPN	1:57.73
LIDINGO	SWE	1:58.31
JNMAM-B	JPN	1:58.79
WARRINGAH	AUS	1:59.24
JNMAM-C	JPN	1:59.45
NAGI	ESP	2:01.81
JAUME COTS		
PERE PUIGTIO		
JOSEP CIURO		
ALFREDO PEREZ		
OSTERSUN	SWE	2:02.50
JNNEC	JPN	2:02.80
JNPSEB	JPN	2:03.79
AFAM	USA	2:04.38
PETER J. DOUGLASS		
ROBERT B. CANINO		
ALAN W. ARATA		
PETE HULSVELD		

AGE 160-199

HSAM	USA	2:07.91
LEE MENCH		
STEVE SOLOMON		
DOUGLAS SELBY		
JERRY O'MARA		
JNHAKY	JPN	2:08.38
OTTER	GBR	2:08.70
JNMAM	JPN	2:09.52
POWER POINTS	AUS	2:10.49
JNSUPS	JPN	2:10.63
MAC MASTERS	USA	2:10.84
MIKE HEINEN		
JOHN KORTHEUER		
MILTON GEE		
JEFF WELLER		
WARRINGAH	AUS	2:12.09
HELLAS	SWE	2:12.21
BOLT	USA	2:12.27
JOHN CASPER		
AL ALEXANDER		
DICK BOWER		
TONY HILL		

AGE 200-239

OREGON	USA	2:04.86
ROBERT SMITH		
ALLEN STARK		
BERT PETERSEN		
HUGH RICHARDS		
JNIWCL	JPN	2:05.82
OTTER	GBR	2:12.14
MOTHERWELL	GBR	2:12.52
HELLAS-1	SWE	2:12.73
JNFLPS-A	JPN	2:13.31
CO BRADFORD	GBR	2:15.45
NEPTUN	SWE	2:16.63
JNFLPS-B	JPN	2:16.87
BRISTOL	GBR	2:17.08

AGE 240-279

JNMAM	JPN	2:27.43
HELLAS-1	SWE	2:32.98
GIPPSLAND	AUS	2:37.00
OHIO MASTERS	USA	2:38.12
DEXTER WOODFORD		
PAUL KRUP		
HARRY GREENFIELD		
DANIEL PER-LEE		
MANLY	AUS	2:38.68
JNNSFB	JPN	2:41.98
JNNSSK	JPN	2:44.28
NORTH LODGE	AUS	2:45.36
CAMERON	ZNL	2:45.60
BERNARD CASTLE		
ALWYN MANLEY		
GRAHAM LEACH		
WALLY MARTIN		
JNNEC	JPN	2:46.10

AGE 280-319

OREGON	USA	2:36.92
EARL WALTER		
FORBES MACK		
ANDREW HOLDEN		
GERALD HUESTIS		
COLONIALS 1776	USA	2:41.00
ROGER FRANKS		
NORM GARSOE		
CAL SCHAEFFER		
FRANK BELLAIRE		
JNSPRM	JPN	3:07.25
HOLMES LUMBER J	USA	3:08.90
FRANK TILLOTSON		
BILL UHRICH		
HARWELL MOSELEY		
W J CAMPBELL		
LBM	USA	3:13.40
ED S. ALLEN JR.		
WOODY BOWERSOCK		
WILLIAM DEMASTUS		
EMILE W. ACHEE		
JNRS88	JPN	3:21.57
MANLY	AUS	3:31.48
ETTALONG	AUS	3:38.13
JNHAKY	JPN	3:41.89
MISSION BAY	USA	4:19.48
ABE SOKOL		
RALPH ROGERS		
GEORGE HUBBEL		
RICHARD KANE		

****
RELAYS: MIXED 200 M. FREE
****

AGE 100-119

JARFALLA	SWE	1:46.19
KSLS	SWE	1:46.95
AFAM	USA	1:50.53
ALAN W. ARATA		
ROBERT B. CANINO		
KIMBERLY D. ARATA		
JUDY HUPP		
JNPSTR	JPN	1:51.23
LARVIK	SWE	1:53.74
HSAM	USA	1:55.06
RANDALL EICKHOFF		
CHARLES B. HARTJE		
VICKY M. DAVIDSON		
DIANE P. MENDOZA		
LIDINGO	SWE	1:55.44
JNHAKY	JPN	1:55.80
JNMYOS	JPN	1:55.87
JNIMAG	JPN	1:58.50

AGE 120-159

NORTH SHORE	ZNL	1:53.12
GLENDA BIDDLE		
JOHN FISHER		
TOM KING		
ROBIN HERRING		
NEPTUN	SWE	1:54.22
POWER POINTS	AUS	1:54.37
LIDINGO	SWE	1:55.15
WARRINGAH	AUS	1:55.82
TOGGS	ZNL	1:55.89
RAEWYN SMEAL		
JAYNIE HUDGELL		
CRAIG HUDGELL		
RUSSELL COWLEY		
CAIRNS	AUS	1:56.19
HARBOUR CAPITAL	ZNL	1:56.32
CAROL BAMFORD		
REBECCA WILLIAMS		
BRUCE ODAMS		
LANCE DAVIDSON		
ADELAIDE MAST	AUS	1:56.97
DONCASTER	AUS	1:58.51

AGE 160-199

NEW ENGLAND	USA	1:51.52
DAN ROGACKI		
SUE TENDY		
JACKI HIRSTY		
HOMER LANE		
NORTH SHORE	ZNL	1:58.52
BARRY YOUNG		
TOM KING		
BERNADETTE RAE		
GLENDA BIDDLE		
CHARLESTON MAST	USA	1:58.97
HUGH WILDER		
JAN PESAVENTO		
GEORGE FISETTE		
SHANNON O'BRIEN		
POWER POINTS	AUS	2:03.95
NEPTUN	SWE	2:04.15
HELLAS	SWE	2:04.60
TALLIN	SWE	2:05.00
NORTH SYDNEY	AUS	2:05.53
JNHCHI	JPN	2:06.90
SOUTH CITY	ZNL	2:07.50
KATHY HYDE		
JANETTE POTTER		
TONY RAUDON		
EVAN JONES		

AGE 200-239

NORTH LODGE	AUS	2:13.60

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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS 1990

TEA TREE GULLY AUS 2:13.82

HELLAS SWE 2:14.61

CARINE AUS 2:15.30

TRINITY AUS 2:17.58

NORTH SHORE ZNL 2:18.29
BARRY YOUNG
DON BIDWELL
JAN CLEMENTS
BERNADETTE RAE

WARRINGAH AUS 2:18.90

GISBORNE ZNL 2:19.50
ALISON MCKAY
MARIAN LEWES
TONY GAYFORD
BARRY MCLEAN

NEW ENGLAND USA 2:19.81
DON READ
JOHN GROVES
SUSAN BLAKE
MARIAN COAKLEY

LEISURE COAST AUS 2:20.67

AGE 240-279

HELLAS SWE 2:19.00

POWER POINTS AUS 2:29.94

NORTH LODGE AUS 2:33.14

HELLAS SWE 2:36.65
AB
AB
AB
AB

MANLY AUS 2:40.57

OSBORNE PARK AUS 2:43.82

ETTALONG AUS 2:44.31

WARRINGAH AUS 2:45.24

TRINITY AUS 2:45.71

CAMERON ZNL 2:46.66
NAN NEVIN
JOAN MONAHAN
CHARLES CLAXTON
JOHN MCKERRAS

AGE 280-319

MANLY AUS 2:52.57

HELLAS SWE 2:53.94

NEW ENGLAND USA 3:01.08
CLARA WALKER
BILLIE BURRILL
LEONARD BRISCO
WILLIAM MCCARTHY

JERSEY MAST S T USA 3:02.28
MAXWELL VOGT
JULIA DOLCE
TOM MORONEY
EVA MULLER

HOLMES LUMBER J USA 3:13.11
GERTRUD ZINT
HARWELL MOSELEY
FRANK TILLOTSON
MARJORIE NEWMAN

JNHESK JPN 3:22.64

ETTALONG AUS 3:24.83

INGLEWOOD AUS 3:51.61

BOLT USA 4:24.23
LOUISE OFFNER
ROSEMARY KARIKER
MIKE OFFNER
ELMER FROST

NORTH SYDNEY AUS 5:12.59

AGE 320-359

INDIAN RIVER USA 4:28.67
ANNE WILDER
PETER JURCZYK
HARRY HOTINE
MEREDITH SCANLON

****
RELAYS: MIXED 200 M. MEDLEY
****

AGE 100-119

JARFALLA SWE 2:03.69

KSLS SWE 2:07.59

LIDINGO SWE 2:08.71

JNPSTR JPN 2:08.95

JNMYOS JPN 2:09.41

JNPSSY-A JPN 2:09.50

JNPSSY-B JPN 2:11.88

JNSFFK JPN 2:13.45

JNLVAN JPN 2:13.52

AFAM USA 2:20.57
KELLY A. LAZERSON
DAVE A. LAZERSON
KIMBERLY D. ARATA
JOHN L. MCCORMICK

AGE 120-159

NORTH SHORE ZNL 2:06.05
JOHN FISHER
TOM KING
GLENDA BIDDLE
ROBIN HERRING

LARVIK SWE 2:08.51

LIDINGO SWE 2:09.77

NEPTUN SWE 2:10.33

NORTH SYDNEY AUS 2:11.28

MIAMI MASTERS AUS 2:11.54

BERKELEY AQ C M USA 2:11.87
JOAN PFINSGRAFF
DAVE SICONOLFI
MARK KUHN
KATHY LYNCH

HARBOUR CAPITAL ZNL 2:12.19
REBECCA WILLIAMS
CAROL BAMFORD
MARTIN FLETCHER
BRUCE ODAMS

HARBOUR CAPIT ZNL 2:14.74
CAROL CAMFORD
REBECCA WILLIAMS
MARTIN FLETCHER
SIS SALEK

WARRINGAH AUS 2:16.05

AGE 160-199

NEW ENGLAND USA 2:07.34
PENNY NOYES
PHIL WHITTEN
DAN ROGACKI
JACKI HIRSTY

OHIO MASTERS USA 2:17.71
JOANNE BOWSER
DANIEL PER-LEE
RICHARD BAUSCHARD
JUDI NORTON

BRISBANE SOUTH AUS 2:20.98

NEPTUN SWE 2:22.61

EMPIRE ST MAST USA 2:23.11
BOB KOLONKOWSKI
ANN JOHNSEN
GEORGE CODY
SUZANNE RAGUE

HELLAS SWE 2:23.46

NORTH SYDNEY AUS 2:23.92

DURHAM LIGHT ZNL 2:24.00
ROBERT MCCLURE
DEBORAH ATTRILL
MARK SAUNDERS
LIZ CALVERT

POSEIDON SWE 2:25.23

NORTH SHORE ZNL 2:25.97
PAMELA MEDHURST
GLENDA BIDDLE
DON BIDWELL
NOEL GRACIE

AGE 200-239

OREGON USA 2:15.87
ROBERT SMITH
GINGER PIERSON
BERT PETERSEN
PETEY SMITH

NORTH SHORE ZNL 2:24.99
JAN CLEMENTS
BERNADETTE RAE
DON BIDWELL
BARRY YOUNG

TRINITY AUS 2:34.72

HELLAS-1 SWE 2:37.20

NEW ENGLAND USA 2:38.03
ISABEL LYNDON
BARR CLAYSON
SUSAN BLAKE
DON READ

MAC MASTERS USA 2:39.77
ELKE ASLESON
JOHN KORTHEUER
SANDRA CATHEY
VESTER BOONE

MIAMI MASTERS AUS 2:41.12

LEISURE COAST AUS 2:43.97

NORTH SYDNEY AUS 2:46.46

PORIN PY SWE 2:47.49

AGE 240-279

HELLAS-1 SWE 2:42.78

NEW ENGLAND USA 2:47.35
CLARA WALKER
MILTON BRIER
WIN WILSON
BILLIE BURRILL

MANLY AUS 2:52.76

ETTALONG AUS 2:55.12

TROJANS ZNL 3:02.53
EDNA FARRELL
JOHN TRUBNICK
AVY JUDELSON
BILL FARRELL

COOGEE RANDWICK AUS 3:03.67

WARRINGAH AUS 3:07.49

JNHESK JPN 3:10.90

OSBORNE PARK AUS 3:14.07

WHITFORD AUS 3:27.50

AGE 280-319

MANLY AUS 3:19.03

LBM USA 3:36.47
BRION WINSHIP
ERNEST VAN HORN
MAXINE O. MERLINO
MAURINE KORNFELD

JNSPRM JPN 3:42.75

ETTALONG AUS 4:18.31

BOLT USA 4:28.04
LOUISE OFFNER
MIKE OFFNER
ROSEMARY KARIKER
ROBERT WIEGAND

INGLEWOOD AUS 4:32.43

NORTH SYDNEY AUS 5:26.55

AGE 320-359

INDIAN RIVER USA 5:21.37
PETER JURCZYK
MEREDITH SCANLON
ANNE WILDER
HARRY HOTINE

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