

Length-weight relationships adopted by the SCRS for major species

Spp.	Area/Season	Relationship ¹	Reference	n	L range
ALB	N. Atl	$RWT = 1.339 \cdot 10^{-5} (FL)^{3.1066}$	Santiago (1993)	714	42-117
ALB	S. Atl.	$RWT = 1.3718 \cdot 10^{-5} (FL)^{3.0973}$	Penney (1994)	1008	46-118
ALB	Med.	$RWT = 3.119 \cdot 10^{-5} (FL)^{2.88}$	Megalofonou (1991)	1742	56-89
BET	Any	$RWT = 2.396 \cdot 10^{-5} (FL)^{2.9774}$	Parks et al. (1982)	3186	37-210
BFT	East Atl.	$RWT = 2.95 \cdot 10^{-5} (FL)^{2.898958}$	Rey and Cort (Unpublished)	?	?
BFT	Med.	$RWT = 1.9607 \cdot 10^{-5} (FL)^{3.0092}$	Arena (Unpublished)	?	?
BFT	West Atl. / Any	$RWT = 2.861 \cdot 10^{-5} (FL)^{2.929}$	Parrack and Phares (1979)	3545	20-372
BFT	West Atl. / Dec-Mar	$RWT = 2.861 \cdot 10^{-5} (FL)^{2.929}$	Parrack and Phares (1979)	3545	20-372
BFT	West Atl. / Apr-May	$RWT = 6.043 \cdot 10^{-5} (FL)^{2.7794}$	Parrack and Phares (1979)	204	52-284
BFT	West Atl. / Jun	$RWT = 4.404 \cdot 10^{-5} (FL)^{2.837}$	Parrack and Phares (1979)	730	21-267
BFT	West Atl. / Jul	$RWT = 3.733 \cdot 10^{-5} (FL)^{2.8683}$	Parrack and Phares (1979)	727	52-298
BFT	West Atl. / Aug	$RWT = 2.227 \cdot 10^{-5} (FL)^{2.9704}$	Parrack and Phares (1979)	1069	22-372
BFT	West Atl. / Sep	$RWT = 1.52 \cdot 10^{-5} (FL)^{3.0531}$	Parrack and Phares (1979)	644	20-334
BFT	West Atl. / Oct-Nov	$RWT = 0.3871 \cdot 10^{-5} (FL)^{3.3172}$	Parrack and Phares (1979)	171	138-278
SKJ	Any	$RWT = 7.480 \cdot 10^{-6} (FL)^{3.2526}$	Cayré - Laloe (1986)	1414 0	32-78
SWO	NW Atl.	$DWT = 4.592 \cdot 10^{-6} (LJFL)^{3.137}$	Turner (1987)	?	?
SWO	Cent. N. Atl.	$RWT = 4.203 \cdot 10^{-6} (LJFL)^{3.2134}$	Mejuto et al. (1988)	2569	80-253
SWO	NE Atl.	$RWT = 3.4333 \cdot 10^{-6} (LJFL)^{3.2623}$	Mejuto et al. (1988)	4049	93-251
SWO	Med.	$GWT = 5.701 \cdot 10^{-6} (LJFL)^{3.16}$	De Metrio et al. (1987)	462	62-205
SWO	Med.	$RWT = 8.90493 \cdot 10^{-7} (LJFL)^{3.554738}$	Mejuto and De La Serna (1983)	1006	62-237
SWO	SW Atl.	$GWT = 1.24 \cdot 10^{-5} (EYFL)^{3.04}$	Amorim and Arfelli (1984)	1173	73-278
SWO	SE Atl.	$GWT = 4.3491 \cdot 10^{-6} (LJFL)^{3.188}$	Mejuto et al. (1988)	3608	89-266
YFT	Any	$RWT = 2.153 \cdot 10^{-5} (FL)^{2.976}$	Caverivière (1976)	?	?

¹ Weights in Kg and lengths are in cm.

DWT = Dressed Weight (gilled, gutted, part of head off, fins off)

GWT = Gilled and Gutted

RWT = Round Weight (all catch statistics are maintained in RWT units)

FL = Fork length

EYFL = Eye fork length

LJFL = Lower jaw fork length

REFERENCES

- AMORIM, A. F., and ARFELLI, C. A. 1984. Estudo biológico-pesqueiro do espadarte, *Xiphias gladius* Linnaeus, 1758, no sudeste e sul do Brasil (1971 a 1981). B. Inst. Pesca, São Paulo, 11:35-62.
- ARENA, P. (Unpublished) ??????
- CAVERIVIÈRE (1975). Longueur predorsale, longueur a la fourche et poids des albacores (*Thunnus albacares*) de l'Atlantique. Rapport preliminaire. Document SCRS/75/73, unpublished.
- CAYRÉ, P. and F. Laloë (1986). Relation Poids-Longueur du Listao (*Katsuwonus pelamis*) de l'Océan Atlantique. Proc. ICCAT Intl. Skipjack Yr. Prog., pp 335-340.
- DE METRIO G., and P. Megalofonou (1987) Catch, size distribution, growth and sex ratio of swordfish (*Xiphias gladius* L.) in the Gulf of Taranto. FAO Fisheries Report 394: 91-102
- MEGALOFONO, P. 1991. Size distribution, length-weight relationships, age and sex of albacore, *Thunnus alalunga* B., in the Aegean Sea. FAO Fisheries Report 449:197-213.
- MEJUTO, J., and J.M. De La Serna (1993) A preliminary analysis to obtain a size weight relationship for the Mediterranean swordfish (*Xiphias gladius*) Col.Vol.Sci.Pap. ICCAT, 40(1): 149-154.
- MEJUTO, J., S. Iglesias, J.C. Rey, E. Alot, and B. Garcia (1988) Relaciones talla-peso del pez espada (*Xiphias gladius*, L.) en las areas BIL-94 y BIL-95, por estratos espacio temporales. Col.Vol.Sci.Pap. ICCAT, 27: 214-221.
- PARKS, W., F.X. Bard, P. Cayré, and S. Kume (1982) Length-weight relations for bigeye tuna captured in the eastern Atlantic Ocean. Col.Vol.Sci.Pap. ICCAT, 17 (1): 214-225.
- PARRACK, M. and P. Phares (1979) Aspects of the growth of Atlantic bluefin tuna determined from mark-recapture data. Col.Vol.Sci.Pap. ICCAT, 8 (2): 356-366.
- PENNEY, A.J. (1994) Morphometric relationships, annual catches and catch-at-size for South African caught South Atlantic albacore (*Thunnus alalunga*). Col.Vol.Sci.Pap. ICCAT, 42 (1): 371-382.
- REY, J.C. and J.L. Cort (Unpublished) ??????
- SANTIAGO, J. (1993) A new length-weight relationship for the North Atlantic albacore. Col.Vol.Sci.Pap. ICCAT, 40 (2): 316-319
- TURNER (1987) Length to weight and weight to length conversions for swordfish in the western North Atlantic and Gulf of Mexico. Document No. 86/11 presented at the 1986 NMFS/SEFC Swordfish Assessment Workshop.

Last update: 19 September, 2006