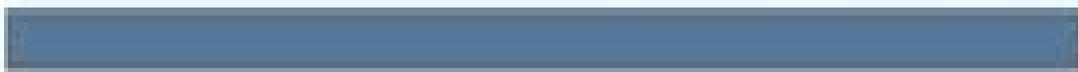


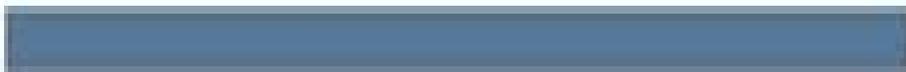
**three-spined stickleback**  
(*Gasterosteus aculeatus*)



3 cm



1 inch



# The Stickleback Cycle

**Robert J. Wootton**



## **The Stickleback Cycle:**

*The Stickleback Cycle* Oxford Scientific Films, 1979 Describes the characteristics and behavior of the most common freshwater fish found in northern temperate climates Biology of the Three-Spined Stickleback Sara Ostlund-Nilsson, Ian Mayer, Felicity Anne Huntingford, 2006-12-15 Highlighting the growing importance of the sticklebacks as a model species in emerging fields such as molecular genetics genomics and environmental toxicology *Biology of the Three Spined Stickleback* examines data from researchers who use studies of the stickleback to address a wide range of biological issues This state of the art volume *The Life Cycle of a Stickleback* Philip Parker, 1988 Follows the development of the stickleback fish from egg to adult *The Regulation of the Annual Reproductive Cycle in the Three-spined Stickleback, Gasterosteus Aculeatus L.* Bertil Borg, 1983 In this thesis the regulation of seasonal reproduction in the three spined stickleback especially the mechanisms of photoperiodic influences was studied Two main questions were asked 1 Are extra retinal photoreceptors involved in the photosexual response 2 What is the functional relationship between the separated yearly cycles in steroid dependent characters and spermatogenesis Methods Electron microscopy immuno cytochemistry and other histological techniques Laboratory experiments using different photoperiods temperatures and hormones evaluated with the use of organ weights and routine histology Results 1 Both photoperiod and temperature have strong though season dependent effects on reproduction 2 Extra retinal photoreception can control the photoperiodic effects on reproduction in this species 3 The pineal organ of the stickleback contains well developed photoreceptor cells 4 High doses of melatonin have antigonadal effects resembling the effects of short photoperiod and high temperature 5 Well developed androgen dependent characters and active spermatogenesis do not occur simultaneously Androgen administration inhibits spermatogenesis 6 LHRH immunoreactive cells are present close to the ventricle in the diencephalon and mesencephalon *A Cycle of Nature Study Suitable for Children Under Twelve Years of Age* M. M. Penstone, 1908 A History of Sockeye Salmon Research, Karluk River System, Alaska, 1880-2010 Richard Gard, Richard Lee Bottorff, 2014 *The Reproductive Cycle of the Three-spined Stickleback, Gasterosteus Aculeatus L.* Arthur Lancelot Craig-Bennett, 1931 The Sexual Cycles of Vertebrates John Francis Deryk Frazer, 1959 **The Biology of the Sticklebacks** Robert J. Wootton, 1976 *The Life-history of Cytoryctes Variolae, Guarnieri* Gary Nathan Calkins, 1904 **Biological Rhythms and Cycles** Nathaniel Kleitman, 1963 *Cycles*, 1963 **Peking Society of Natural History Bulletin**, 1930 Vols 1 4 1926 27 1929 30 include proceedings and lists of members of the society **The Shipley Collection of Scientific Papers**, 1914 **Cycling**, 1894 Ethology, the Biology of Behavior Irenäus Eibl-Eibesfeldt, 1975 With this volume Steven T Katz initiates the provocative argument that the Holocaust is a singular event in human history Unlike any previous work on the subject *The Holocaust in Historical Context* maintains that the Holocaust is the only example of true genocide a systematic attempt to kill all the members of a group in history In a richly documented subtly argued and amazingly wide ranging comparative historical and phenomenological

analysis Katz explores the philosophical and historiographical implications of the uniqueness of the Holocaust After he establishes the nature of genocide Katz examines other occasions of mass death to which the Holocaust is regularly compared from slavery in the ancient world to the medieval persecution of heretics from the depopulation of the New World to the Armenian massacres during World War I and from the Gulag to Cambodia In the first of three volumes Katz after setting the groundwork for his analysis with four chapters dealing with essential methodological issues begins his comparative case studies with slavery in the ancient Greek and Roman world and continues with such subjects as medieval antisemitism the European witch craze the medieval wars of religion the medieval persecution of homosexuals and the French campaign against Huguenots Throughout this investigation of pre modern Jewish and non Jewish history Katz looks at the ways in which the Holocaust has precedents and parallels and in what way it stands alone as a singular highly distinctive historical event

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