

Coastal/Estuarine Fish Habitat Description & Assessment Manual

Appendix

Species/Habitat References



Fisheries
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Pêches
et Océans

Canada

**COASTAL/ESTUARINE FISH HABITAT
DESCRIPTION & ASSESSMENT MANUAL**

APPENDIX

SPECIES/HABITAT REFERENCES

Prepared for

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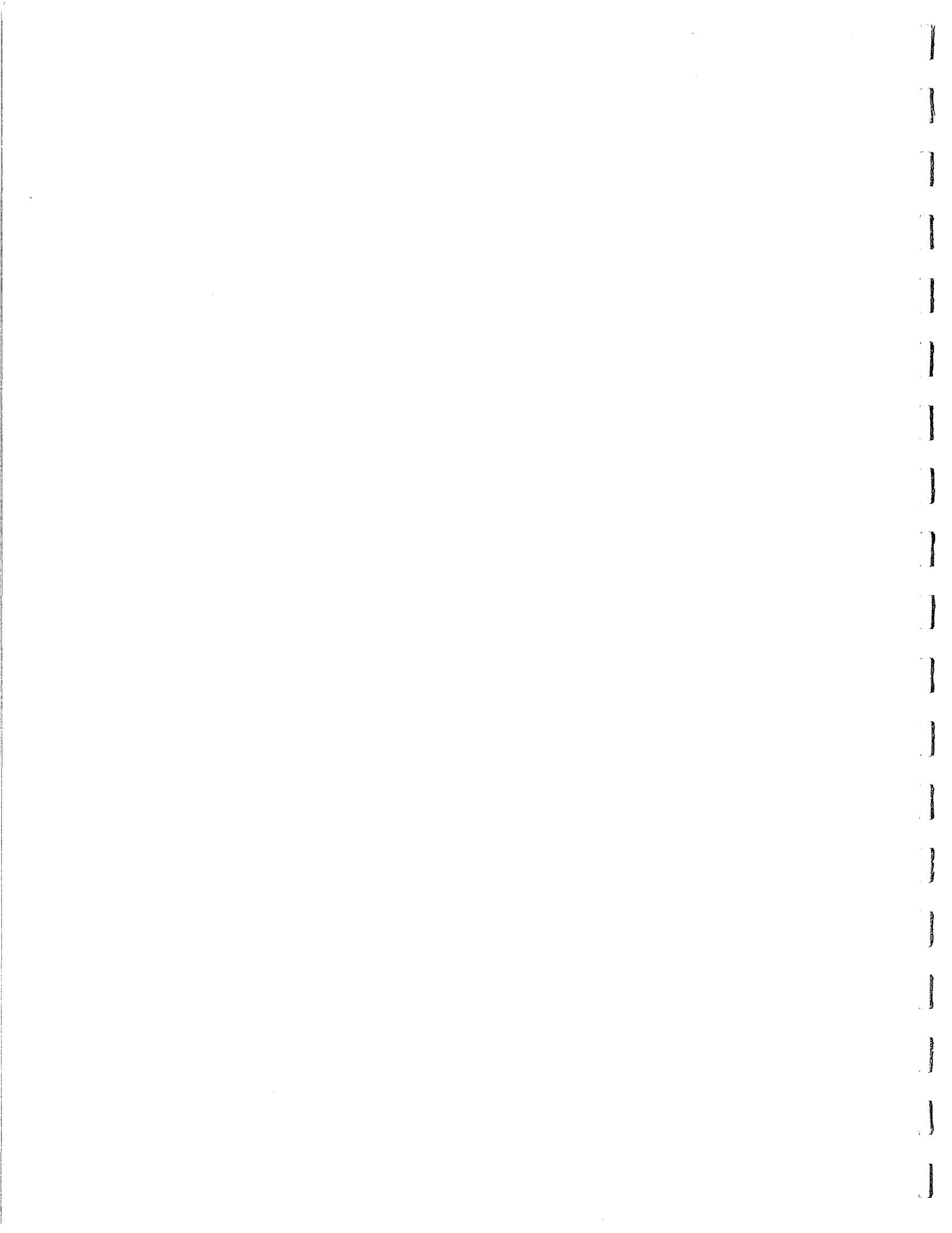
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PREFACE

In December 1987, G.L. Williams and Associates Ltd. was awarded a contract as a result of an unsolicited proposal to develop a marine foreshore on-site habitat description and assessment evaluation manual for the Department of Fisheries and Oceans (DFO). The unsolicited proposal was funded by the Unsolicited Proposals Program, Department of Supply and Services, Department of Fisheries and Oceans and Environment Canada, Parks. The overall objective of the work was to develop practical, consistent and ecologically based procedures to guide habitat biologists, fisheries officers and other field staff who routinely conduct habitat assessments and evaluations as part of the development project referral process. The work has resulted in four main components: species/habitat outlines for 49 species important to the commercial, sport and Native fisheries, species/habitat references appendix, habitat description procedures manual, and discussion paper on habitat evaluation evaluation procedures .

To ensure that the work would be useful to field staff and be scientifically sound, a federal-provincial steering committee was formed to guide the work. The members of the Steering Committee are identified below.

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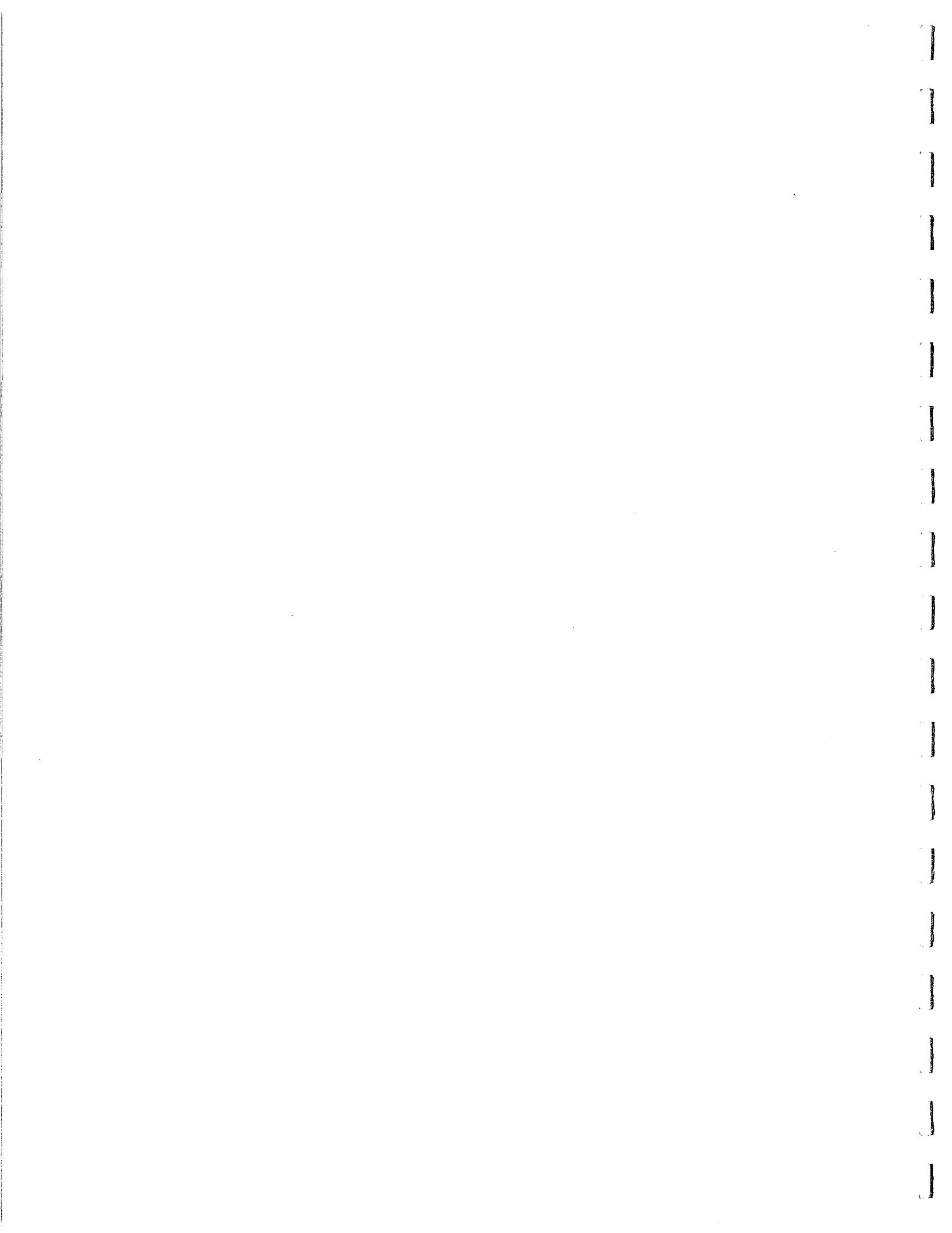
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INTRODUCTION

The references included in this appendix were reviewed during preparation of the 49 species/habitat outlines. The 49 species of anadromous and marine fishes, molluscs, crustaceans and echinoderms are identified in Table 1. References have been listed alphabetically by species. In some instances (i.e. salmon, molluscs, and rockfish) references that provide broader species coverage have been listed before individual species. The references contained in this volume provide a comprehensive treatment of habitat utilization, and although intensive manual literature searches were conducted by the author and a computer search made by Ms. Susan Keller, Librarian, West Vancouver Laboratory, DFO, it is quite possible that some habitat references were not identified. However, it was felt that the references compiled in this report may assist habitat biologists and other DFO staff conduct more thorough habitat assessments.

Table 1. Species list for species/habitat outlines.

Common Name	Scientific Name
A. ANADROMOUS FISHES	
1. chinook salmon	<i>Oncorhynchus tshawytscha</i>
2. chum salmon	<i>O. keta</i>
3. coho salmon	<i>O. kisutch</i>
4. pink salmon	<i>O. gorbuscha</i>
5. sockeye salmon	<i>O. nerka</i>
6. coastal cutthroat trout	<i>O. clarki</i>
7. steelhead trout	<i>O. mykiss</i>
8. Dolly Varden char	<i>Salvelinus malma</i>
9. white sturgeon	<i>Acipenser transmontanus</i>
10. eulachon	<i>Thaleichthys pacificus</i>
B. MARINE FISHES	
11. Pacific herring	<i>Clupea harengus pallasi</i>
12. surf smelt	<i>Hypomesus pretiosus</i>
13. lingcod	<i>Ophiodon elongatus</i>
14. English sole	<i>Pleuronectes vetulus</i>
15. starry flounder	<i>Platichthys stellatus</i>
16. Pacific halibut	<i>Hippoglossus stenolepis</i>
17. big skate	<i>Raja binoculata</i>
18. copper rockfish	<i>Sebastes caurinus</i>
19. yellowtail rockfish	<i>S. flavidus</i>
20. yelloweye rockfish	<i>S. ruberrimus</i>
21. quillback rockfish	<i>S. maliger</i>
C. MOLLUSCS	
22. butter clam	<i>Saxidomus giganteus</i>
23. littleneck clam	<i>Protothaca staminea</i>
24. Manila clam	<i>Tapes philippinarum</i>
25. razor clam	<i>Siliqua patula</i>
26. horse clam	<i>Tresus capax</i>
27. horse (gaper) clam	<i>T. nuttallii</i>
28. cockle	<i>Clinocardium nuttallii</i>
29. geoduck	<i>Panope abrupta</i>
30. soft-shell clam	<i>Mya arenaria</i>
31. Pacific oyster	<i>Crassostrea gigas</i>

Table 1. (continued).

Common Name	Scientific Name
C. MOLLUSCS (continued)	
32. native oyster	<i>Ostrea lurida</i>
33. pink scallop	<i>Chlamys rubida</i>
34. spiny scallop	<i>C. hastata</i>
35. weathervane scallop	<i>Patinopecten caurinus</i>
36. rock scallop	<i>Crassadoma gigantea</i>
37. blue mussel	<i>Mytilus edulis</i>
38. northern abalone	<i>Haliotis kamtschatkana</i>
39. opal squid	<i>Loligo opalescens</i>
40. giant Pacific octopus	<i>Octopus dofleini</i>
D. ECHINODERMS	
41. California sea cucumber	<i>Parastichopus californicus</i>
42. red sea urchin	<i>Strongylocentrotus franciscanus</i>
43. green sea urchin	<i>S. droebachiensis</i>
E. CRUSTACEANS	
44. gooseneck barnacle	<i>Pollicipes polymerus</i>
45. coonstripe shrimp	<i>Pandalus danae</i>
46. humpback shrimp	<i>P. hypsinotus</i>
47. prawn	<i>P. platyceros</i>
48. Dungeness crab	<i>Cancer magister</i>
49. red rock crab	<i>C. productus</i>

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B. MARINE FISHES

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D. ECHINODERMS

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