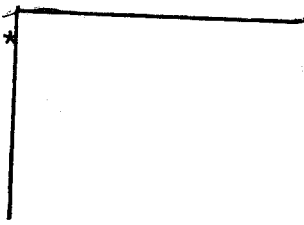


TECHNICAL REPORT NO. 9

A CATEGORIZED BIBLIOGRAPHY
FOR A CONCEPTUAL MODEL OF SALT MARSH MANAGEMENT
ON MERRITT ISLAND, FLORIDA

C.L. Montague *
A.V. Zale
H.F. Percival
T. Hingtgen



Florida Cooperative Fish and Wildlife Research Unit
117 Newins-Ziegler Hall
School of Forest and Agricultural Conservation
Institute of Food and Agricultural Sciences
University of Florida, Gainesville, Fl 32611

and

*Systems Ecology and Energy Analysis Program
Department of Environmental Engineering Sciences
A.P. Black Hall
University of Florida, Gainesville, Fl 32611

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INTRODUCTION

Enclosed is a bibliography of 556 published articles, technical reports, theses, dissertations, and books that form the basis for a conceptual model of salt marsh management on Merritt Island, Florida (Section 1). A copy of each item is available on file at the Florida Cooperative Fish and Wildlife Research Unit, Gainesville. Some relevant proprietary items and unpublished drafts have not been included pending permission of the authors. We will continue to add pertinent references to our bibliography and files. Currently, some topics are represented by very few items. As our synthesis develops, we will be able to indicate a subset of papers most pertinent to an understanding of the ecology and management of Merritt Island salt marshes.

A guide to the bibliography is enclosed that is based on a limited number of categories (Sections 2 and 3). The categories used to organize the bibliography are indicated in Section 2a. Please note there is no category number 19. Because most of the papers fall into more than one category, we have included a list of category assignments for each reference (Section 2b). Section 2 serves as a map to the lists of references assigned to each category in Section 3.

The guide was developed primarily as an internal aid to reviewing each paper and recovering it for later use. Because our guide is automated, we can, on request, generate lists of references in combined categories (either the union or intersection of two or more categories). Periodically we will make alterations to our classification scheme to make it more useful for our purposes. It is not a computerized library search facility of general utility. It perhaps represents a kernel for possible future development of such a search facility.

We have developed some initial impressions concerning the ecology and management of Merritt Island salt marshes based on our review of the literature in the bibliography, our discussions with many individuals, and our own observations to date (19 October 1984). Specific and general impressions are recorded on the following pages for the purpose of stimulating documentation of these or different points by anyone wishing to contribute to our bibliography and conceptual model of salt marsh management on Merritt Island.

Impressions Specific to Merritt Island, Florida:

S1. Impoundment variability: Impoundments on Merritt Island vary considerably in quality of fish and wildlife habitat. At least four major types of impoundment vegetation communities are discernable on photos of Merritt Island: mangrove, saltmarsh, cattails, and open water with or without submerged vegetation. This observation is based on discussion with the staff of Bionetics Corporation at Kennedy Space Center. Planimetry of the area of each of these types will aid management of impoundments.

The considerable variability among impoundments decreases the utility to whole island management of the results from studies of single impoundments, or from studies of several very similar impoundments. Findings may not apply generally. The mosaic of impoundment types suggests a mosaic of possible uses and management schemes (see also general impression G3 below).

S2. Significant environmental differences: Tides, seasons, and sediments of the Merritt Island region are considerably different than those of the areas of all the major studies of salt marsh ecology. Estuarine water is high enough to cover marsh for extended periods of several months in fall and winter, and marshes traditionally were rarely flooded by estuarine water in spring and summer. Winters are relatively mild, though not tropical. Sediments derived from piedmont river drainage are not supplied in great quantity to the area.

The sites of most of the basic research in salt marsh ecology traditionally include Georgia and Massachusetts, with more recent and extensive efforts in South Carolina and Louisiana. Pertinent studies have also occurred in New Jersey, Delaware, Virginia, North Carolina, and California, with smaller contributions from the other coastal states. Most of the major marsh work in Florida has been in the panhandle or in South Florida mangroves.

Hence, much of the work on which the values of saltmarsh are based have occurred in areas with daily or twice-daily tides of large amplitude, more distinctive seasonal changes in temperature, or areas with rich supplies of iron and phosphate rich clay sediments derived from piedmont soils and delivered continuously to the coast via rivers. These factors may affect notions such as the relative importance of the marsh interior to coastal fisheries, the notion that nitrogen is the major limiting nutrient in coastal zones, and that larval and juvenile fishes do not grow well in fall and winter. Consideration of differences in salt marsh function or value that may be caused by these environmental differences is essential to successful management of Merritt Island salt marsh.

S3. Fish and wildlife: The hydrological changes caused by mosquito impoundments have created summer habitat for some estuarine fish and year-round habitat for other fish and wildlife that were not present before impoundment. In many cases these new habitats are similar to natural marshes and ponds found elsewhere in Florida that are considered good fish and wildlife habitats. Some relatively permanent freshwater habitat has been

created, for example, that supports sport fishes such as largemouth bass, black crappie and bluegill.

Habitat for estuarine fishes that historically utilized the marshes during the autumnal rise in estuarine water may not be able to access much of the impounded marshland, however. Ingress and egress of estuarine fishes is a major problem for estuarine fishery management, especially when estuarine water levels fall again in late autumn or winter. Semi-tropical species such as tarpon, shrimp, and snook must be able to get out to avoid death from cold winter temperatures.

It may be very expensive to manage such impoundments for both estuarine fish and waterfowl. Reconstruction of dikes, installation of weirs, culverts and pumps may allow intensive management of both, but at considerable cost and perhaps with only partial success. Utilization of Louisiana coastal marsh impoundments even with culverts or weirs for access to the estuary is apparently lower than utilization of natural marshes, indicating some avoidance of these structures by commercially important fishery species. If culverts or weirs are the only access, however, fishery species may utilize the marshes despite the apparent avoidance in the Louisiana studies.

S4. Ecological succession: Cattails appear to have been continually invading many of the impounded areas, perhaps especially those that were formerly salt marsh without dense mangroves and are not now intensively managed for waterfowl. Since the construction of dikes 25 to 30 years ago, vegetation in some impoundments has perhaps changed little, still consisting of salt marsh grasses or mangroves. Some impoundment vegetation has changed considerably, but few plant communities seem to have reached a steady-state condition. Perhaps the eventual steady state of these marshes, if one can occur, will include considerable quantities of cattail.

S5. Mosquito control: The total impounded acreage that is open water seems small. Most of the impounded areas seem to be composed predominantly of emergent vegetation. Even with emergent vegetation, impoundments probably still control the majority of the historical mosquito problem caused by salt marsh mosquitoes because these cannot complete their life cycle in standing water. Such impoundments, however, are perhaps not especially suitable for waterfowl or commercially important fish and can breed standing water types of mosquitoes. These types are not as serious a pest as salt marsh mosquitoes, though perceived public health concerns remain of disease transmission by these mosquitoes. Thus, these areas are sprayed with insecticides.

S6. Effects of Merritt Island impoundments on estuarine water quality: Comparison of water quality within impoundments to that in the adjacent waters of Indian River, Banana River and Mosquito Lagoon will be very helpful in indicating the relationship of impoundments to the estuary when combined with records of water entrapment by the impoundments and subsequent release to the estuary. Estuarine water quality data is being collected by

Bionetics Corporation and by Brevard County. Although some water quality data in impoundments exist, a definitive study is needed. Even simple oxygen meter readings at dawn and dusk in a variety of impoundments would be very informative. Nitrogen, phosphorus, chlorophyll, salinity and contaminant measures would also contribute greatly to a relevant understanding of impoundments.

S7. Stored contaminants: DDT and other pesticides used historically for mosquito control or orange grove management may have accumulated with sediments behind dikes. Other contaminants may have accumulated also. Dikes slow water and allow settlement of fine particles that might otherwise remain suspended. Impoundments hold water that might otherwise flow through to the estuary. Knowledge of trapped contaminants is needed in considering all management alternatives for Merritt Island salt marsh, but to the best of our knowledge, no such data exist.

S8. Possible effects of growth along Indian River and a possible cause: Mosquito control by impoundment and other means has been very effective. It was needed to allow the existence of NASA's operations in the area. NASA brought with it immense opportunity and subsequent development. Fewer mosquitoes also meant more attractive tourism and associated sports fishing and further development. Development presumably produced a greater market for local seafood. Also accompanying this development was industry, housing, and traffic. For the local estuary this meant sewage effluent, street drainage, and heavy commercial and sport fishing. Thus, if there has been a documented decline of estuarine water quality and fisheries, this may be attributable to the accomplishment of desired mosquito control, but not necessarily to the method of control by impoundments.

General Impressions:

G1. Edge-effect, habitat and the outwelling of nutrients from saltmarshes: In marshes with twice daily or daily tides, the interior areas of marsh are often relatively low in production and standing stocks of plant biomass. It is unclear how much of this interior production of plants is exported as detritus to the estuarine water in tidal creeks and rivers. Aerobic and anaerobic decomposition of this detritus is very great; hence, most detritus may decompose in place. Resident interior marsh animals such as fiddler crabs, marsh snails, and ribbed mussels undoubtedly benefit from this decomposing detritus, but these interior marsh residents usually include no commercially important species. Juvenile fishes may rarely have time to venture into the interior to utilize any food or cover it may afford. The water that reaches the interior will have lost most of its particulates and probably its available nutrients. The growth of interior marsh plants is often nutrient limited, especially by nitrogen. Some trapping of larval or juvenile fishes in the interior of the marsh is conceivable. Pools in the interior of the marsh that stay wet and do not overheat can allow survival of some of these fishes, but such pools are ideal

feeding sites for wading birds. In semi-diurnally or diurnally flooded salt marshes, the best habitat for young fishes, and the sites where detritus, other nutrients and particles can enter or exchange with estuarine water appear to be at the marsh edges adjacent to tidal creeks, where tidal energy is primarily dissipated. These areas may also be natural habitat for dabbling ducks that consume mollusks and crustacea on the stalks of plants and mudflats while swimming along the marsh edge. Thus ditching up to a point may actually improve the habitat value of a saltmarsh. Extra funds need not be used to make such ditches especially straight. Appropriate ditch densities await determination and are likely to be site specific.

When the flooding cycle of saltmarshes is seasonal, with periods of flooding lasting for months, access to the interior of the marsh by larval and juvenile commercially important fishes and shellfishes is possible. The detritus and cover of these areas is utilizable, and perhaps very important. Life cycles of local fishes may be attuned to best utilize these resources despite the season of their occurrence. Such conditions historically occurred in the Merritt Island area.

G2. Water quality improvement for the maintenance of estuarine diversity of fisheries: By maintaining a balance between salt marsh plants, seagrasses, and phytoplankton, diversity of the fishery is probably best maintained. Nearly all fish larvae feed on zooplankton, which feed on phytoplankton; but as they mature, seagrasses and salt marsh habitats become essential for survival. Diversity of habitats should yield a more diverse and productive fishery. Too many plant nutrients in the water column may stimulate growth of phytoplankton to the point that seagrasses do not receive enough light to survive.

Ecosystems as well as crops have a capacity to absorb plant nutrients. By using semi-terrestrial or terrestrial ecosystems for tertiary treatment of sewage effluent, excessive phytoplankton growth can perhaps be prevented, such that seagrasses can persist. If marshes are good pre-filters of sewage effluent and estuaries contain the important fishery species, it would seem better to utilize the filtering capacity of the marsh by direct application of sewage in order to help preserve the estuarine water rather than dumping directly into the estuarine water and expecting the natural flood and ebb of the tide over the marshes to cleanse the water in a time scale appropriate to the preservation of the fishery. Some impoundments may be especially useful for receiving effluent.

G3. Energy conservative use and restoration of salt marsh: With sufficient additions of energy, humans can perhaps improve any given single ability of a natural or impounded marsh. The marsh is valuable because it simultaneously does a variety of things for free, such as provide habitat and food for fish and wildlife, capture sediments, absorb contaminants, and buffer coastlines against storms. Values of marshland can be retained or restored without exact duplication of the species of the natural or pre-impoundment marsh. Merritt Island mosquito impoundments no doubt retain some of the values of natural marsh.

Complete filling of these sites would be an alternative that would clearly not retain marsh values. Impoundments can be utilized, managed, and preserved for their existing values.

G4. Feasibility of multiple purpose management in coastal impoundments: The primary purpose of impoundment on Merritt Island is mosquito control. Nevertheless, a variety benefits may be realized within this constraint. The impounded marsh may also be suitable habitat for waterfowl and sport fishes, and may have potential for aquaculture or sewage disposal. When in addition, a number of different varieties of impoundments are available, as on Merritt Island, the feasibility of multi-objective management is greatly enhanced.

G5. Wildlife management in coastal impoundments: The use of coastal wetland impoundments for wildlife management is most extensive in the Carolinas and Louisiana. The primary objective has been to attract wintering waterfowl. Additional attention has been given to management for muskrats, nutria, crayfish, wading birds, and other wildlife.

The primary method for enhancing habitats for waterfowl and other species is to use impoundment and water control structures to influence water level and salinity and thereby alter the vegetation within the impoundment until a desired plant community develops. Production of suitable food plants is the principle concern. Manipulations of water level and salinity are continued as needed to maintain the desired plants.

Tidal fluctuation and salinity of available water determine the flexibility a manager has to influence the vegetation. Various water control structures have been employed. In Louisiana, weirs have been used extensively. They are relatively inexpensive to install, but the extent of water level control is limited. Dikes with culverts, or wooden trunks with flap gates or flashboard risers are most effective in areas with adequate frequency and amplitude of tidal fluctuations. Without adequate tides, pumping is necessary to maintain appropriate water levels. Burning, chopping, discing, mowing, and planting are additional vegetation management techniques, but these add considerably to expense.

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IMPOUNDMENTS AND THEIR ENVIRONMENT

- 1a. Values of Natural Marsh -- Hard Data
- 1b. Values of Natural Marsh -- Interpretation
- 2a. Values of Impounded Coastal Wetlands -- Hard Data
- 2b. Values of Impounded Coastal Wetlands -- Interpretation
3. History of Impounded Coastal Wetlands
4. Distribution and Acreage of Impounded Coastal Wetlands
5. Classification of Impounded Coastal Wetlands
6. Laws and Regulations Pertaining to Impounded Coastal Wetlands
7. Geographic Areas of Special Concern Pertaining to Impounded Coastal Wetlands

PHYSICAL AND CHEMICAL FEATURES OF IMPOUNDED COASTAL WETLANDS AND NATURAL MARSH

8. Physical Environment
9. Water Quality and Biogeochemistry
10. Sediment/Soils
11. Contaminant Effects

ECOLOGICAL FEATURES OF IMPOUNDED COASTAL WETLANDS AND NATURAL MARSH

12. Trophic Web
13. Plant Ecology
14. Invertebrates
15. Mosquitoes and Other Biting Flies
16. Fish
17. Waterfowl
18. Wildlife (Other Than Waterfowl)

MANAGEMENT

20. Waterfowl
21. Control of Mosquitoes and Other Biting Flies
22. Rice Farming
23. Aquaculture
24. Wastewater Treatment and Dredge Spoil Disposal
25. Construction and Maintenance
26. Wildlife (Other Than Waterfowl)
27. Fisheries and Estuaries

CONCEPTUAL MODELS

28. Natural Marshes and Estuaries

CATEGORY ASSIGNMENTS FOR EACH REFERENCE

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Paille et al. 1984	2a, 14, 27
Patrick and DeLaune 1976	12, 13, 24
Patterson and von Windeguth 1964	11, 14
Percival et al. 1970	13, 20
Perry et al. 1970	20, 23, 25
Peterson 1981	1b, 2b, 27
Peterson and Peterson 1979	1b, 8, 10, 12, 13, 14, 16, 17, 18
Pfannkuche et al. 1975	14
Pip and Stewart 1976	12, 13, 14
Platts et al. 1943	21
Pomeroy 1959	13
Pomeroy 1960	13, 27
Pomeroy and Wiegert 1981	1a, 1b, 8, 9, 10, 12, 13, 14, 16, 18, 28
Pomeroy et al. 1977	1b, 12
Ponnamperuma 1972	9, 10
Prevost et al. 1978	13, 17, 20
Provost 1951	15
Provost 1957	15
Provost 1959	13, 17, 18, 21
Provost 1968	1b, 2b, 13, 21
Provost. 1969a	1b, 2b, 17, 18, 21
Provost 1969b	2b, 21
Provost 1972a	2b, 21
Provost 1972b	3, 4, 21
Provost 1973a	1b, 5, 8
Provost 1973b	1b, 2b, 4, 21, 25
Provost 1976	8
Provost 1977a	11
Provost 1977b	1b, 2b, 3, 15, 21
Provost 19??	5, 17, 18
Purcell 1981	11, 21
Rabelais 1980	1b
Race and Christie 1982	1b
Reddy and Patrick 1975	8, 9, 10, 12
Redfield 1972	10, 13
Reed 1947	10, 13
Reimold 1972	1a, 9, 13
Reimold 1975	10, 12
Reimold et al. 1975	1a, 12, 13

Reimold et al. 1980	1b
Resh and Balling 1983	8, 21
Reubsamen 1972	16
Richard 1978	1a, 10
Richardson 1980	13
Rickards 1968	16
Robel 1961	9, 13, 20
Robel 1962	8, 13
Rockel 1969	9, 10, 13, 14, 15, 21
Rogers 1962	2a, 5, 15, 21, 25
Rollins 1973	9, 10, 20, 25
Roman et al. 1984	8, 13
Rorabaugh and Zwank 1983	17
Rose et al. 1975	14, 23
Ruber 1967	14
Rublee and Dornseif 1978	12
Ruibal 1959	18
Ryther and Dunstan 1971	9, 27
Sandifer et al. 1980	12, 13, 14, 16, 17, 18, 21, 28
Schooley 1980	2a, 8, 9, 12, 13, 14, 16, 27
Schwartz 1976	2a, 9, 10, 13, 17
Seaman and Collins 1983	16
Seliskar and Gallagher 1983	1b, 8, 10, 12, 13, 14, 15, 16, 17, 18
Setchell 1924	8, 9, 13
Settlemyre and Gardner 1977	1a, 10, 12
Shanholtzer 1974	1b, 12, 16, 17, 18
Sharma and Al-Daham 1979	16, 21
Sharp 1962	12, 18
Shaw and Fredine 1956	1a, 1b, 2b, 4
Sheffield et al. 1982	6, 24, 25
Shenker and Dean 1979	1a, 16
Shiflet 1963	13, 20
Shisler and Jobbins 1975	13, 14, 21
Shisler and Jobbins 1977a	13, 14, 21
Shisler and Jobbins 1977b	1a, 12
Shisler et al. 1975	13, 21
Shisler et al. 1978	3, 21, 25
Shisler et al. 1979	21, 25
Short 1983	9, 27
Simpson et al. 1978	1a, 9, 13, 24
Simpson et al. 1983a	1b, 12, 13, 28
Simpson et al. 1983b	1a, 9, 13, 24
Singleton 1951	13, 20
Sjoberg and Danell 1981	17
Skud and Wilson 1960	27
Slavin 1974	21
Slavin et al. 1975	11, 13, 21
Sloey et al. 1978	1b, 2b, 9, 28
Smalley 1959	13, 14
Smalley 1960	14
Smith 1942	13, 20, 26
Smith 1970	10, 13, 20, 26
Smith 1980	8
Smith 1983a	8
Smith 1983b	8

Smith 1983c	8
Smith and Kierspe 1981	8
Smith and Odum 1981	12, 13, 17
Sompongse and Graetz 1982	1a, 9, 10
Springer 1964	13, 17, 21
Stalter 1973	10, 13
Steenis et al. 1958	13, 20
Steever et al. 1976	8, 13
Sterling 1970	13, 17
Sternberger 1983	8
Stickney and Cuenco 1982	16
Stieglitz 1972	12, 17
Stieglitz and Wilson 1968	17
Stone et al. 1978	1b, 26, 27, 28
Stoner 1982	12, 16, 27
Stoner 1983	12, 16, 27
Stoner and Livingston 1984	12, 16, 27
Stora and Arnoux 1983	8, 9, 27
Stout et al. 1980	8, 9, 10, 13, 16, 18, 27
Street and McClees 1981	1b, 27
Subrahmanyam and Drake 1975	16
Subrahmanyam et al. 1976	14
Sullivan and Daiber 1974	9, 13, 24
Suttkus 1954	16
Sykes 1975	18, 26
Sykes 1980	3, 13, 18
Tabb 1958	16
Tagatz 1968	12, 14
Tarbox 1974	1a, 2a, 16
Teal 1958	14
Teal 1959	14
Teal 1962	1a, 12, 28
Teal and Kanwisher 1961	1a, 12
Teal et al. 1979	1a, 9, 13
Teeter 1965	9, 13
Thayer et al. 1974	12, 14, 16
Theiling and Loyacano 1976	2a, 16
Thompson et al. 1979	8
Tilton and Kadlec 1979	1a, 24
Tindall 1961	2b, 13, 15, 17, 18, 20
Tiner 1984	1b, 5
Travis et al. 1954	13, 21
Trent et al. 1976	8, 14, 24
Tucker and Hodson 1976	16
Turner 1966	16
Turner 1976	1a, 8, 13
Turner 1977	1a, 12, 13, 14, 27
Turner 1978	1a, 12, 13
Turner 1982	1a, 27
Turner and Brody 1983	14
Turner and Johnson 1974	16
Turner et al. 1976	1a, 2a, 24
Uhler 1944	13, 20
Uhler and McGilvery 1969	13, 20
Ustach 1982	12, 14

Valentine et al. 1972	12, 18
Valiela and Teal 1974	9, 13
Valiela and Teal 1979a	9, 13, 28
Valiela and Teal 1979b	1a, 9
Valiela et al. 1975	9, 11, 13, 24
Valiela et al. 1976a	9, 13
Valiela et al. 1976b	1a, 11, 24
Valiela et al. 1978a	9, 13
Valiela et al. 1978b	1a, 9, 12
Van Den Avyle and Fowler 1984	14
Van Raalte et al. 1974	9, 13, 24
Verhoeven 1975	9, 13
Vince et al. 1976	12, 14, 16
Viosca 1923	18
Virnstein 1982	13, 27
Virnstein et al. 1983	1a, 12, 27
Voigts 1976	13, 14
Vorgetts et al. 1980	15, 21
Waits 1967	13
Wang et al. 1979	10, 11
Weaver 1969	14, 16
Weaver and Holloway 1974	2a, 14, 16
Weinstein 1979	1a, 9, 14, 16
Weinstein and Walters 1981	1a, 16
Weinstein et al. 1980a	16
Weinstein et al. 1980b	1a, 9, 14, 16
Weller 1975	13, 20, 26
Weller 1978	1b, 2b, 5, 13, 14, 20, 25, 26
Wellings 1976	11, 24
Wells 1928	13, 28
Welsh 1980	1a, 9, 12
Welsh et al. 1978	1a, 2a, 8, 9, 14
Wheeler and March 1979	1a, 2a, 17, 20
Whigham and Simpson 1976a	13, 24
Whigham and Simpson 1976b	1a, 13, 24
Whigham et al. 1978	1a, 13
Whigham et al. 1982	1b, 21
Whitlatch 1982	1b, 8, 10, 12, 13, 14, 16, 17, 18
Whitman 1973	20, 25
Whitman 1976	2a, 9, 20
Whitney et al. 1975	1a, 9
Wicker et al. 1983	20, 25, 26, 27
Widjeskog 1974	2a, 21
Wiegert 1979	1a, 12
Wiegert et al. 1983	8, 13
Wiehe 1935	8, 13
Wieser and Kanwisher 1961	14
Wilcox and Jeffries 1974	12, 14
Wilhm and Dorris 1968	9
Williams 1955	1a, 14, 27
Williams 1958	14, 23, 27
Williams 1964	9, 13
Williams et al. 1968	12, 14
Wilson 1955	20, 25
Wilson 1962	4, 20

Wilson 1968	1b, 2b, 18, 26
Winchester 1982	1b, 5
Wolanski et al. 1980	1a, 8, 12, 28
Wolaver et al. 1980	1a, 9
Woodwell 1977	1b, 2b, 24
Woodwell et al. 1977	1a, 9, 12
Woodwell et al. 1979a	1a, 9
Woodwell et al. 1979b	1a, 9, 12
Yakupzack et al. 1977	2a, 14
Youngbluth 1982	12, 14
Zedler 1982	1b, 8, 10, 12, 13, 14, 15, 16, 17, 18
Zedler et al. 1980	8, 13
Zilberberg 1966	1a, 14, 16
Zimmerman et al. 1982	1a, 2a, 14

REFERENCES ARRANGED BY CATEGORY ASSIGNMENTS

IMPOUNDMENTS AND THEIR ENVIRONMENT

CATEGORY 1a: VALUES OF NATURAL MARSH -- HARD DATA

Armstrong and Hinson 1978
Banus et al. 1975
Beeftink 1975
Bender and Correll 1974
Blum 1969
Boon 1975
Buresh et al. 1980
Byron 1968
Carlson and Forrest 1982
Cruz 1973
Daly and Mathieson 1981
Day 1980
DeLaune and Patrick 1980
DeLaune et al. 1978
Dolan et al. 1981
Duke et al. 1981
Erkenbrecher and Stevenson 1978
Federico et al. 1982
Gardener 1975
Gleason et al. 1979
Haines 1975
Haines 1976
Haines 1977
Haines 1979a
Haines 1979b
Haines 1979c
Haines and Dunstan 1975
Haines and Montague 1979
Haines et al. 1977
Hansen 1970
Harriss et al. 1980
Haven 1957
Heinle and Flemer 1976
Heinle et al. 1973
Henriksen and Jensen 1979
Herke and Rogers 1983
Hopkinson and Schubauer 1984
Howarth 1979
Howarth and Teal 1979
Hughes and Sherr 1983
Johnson and Calder 1973
Joint 1978
Jorgensen 1977
Kaplan et al. 1979
Keefe 1972
Khalid et al. 1982
Kistritz et al. 1983
Krottje et al. 1982

Lee and Partridge 1983
Lipschultz 1981
MacCrimmon 1980
Marsh and Odum 1979
Marshall 1976
May 1974
Moyle and Hotchkiss 1945
Nixon 1980
Nixon and Oviatt 1973
Nixon et al. 1976
Odum 1970b
Odum and Cruz 1967
Odum and Heald 1972
Odum et al. 1983
Onuf et al. 1977
Pomeroy and Wiegert 1981
Reimold 1972
Reimold et al. 1975
Richard 1978
Settlemyre and Gardner 1977
Shaw and Fredine 1956
Shenker and Dean 1979
Shisler and Jobbins 1977b
Simpson et al. 1978
Simpson et al. 1983b
Sompongse and Graetz 1982
Tarbox 1974
Teal 1962
Teal and Kanwisher 1961
Teal et al. 1979
Tilton and Kadlec 1979
Turner 1976
Turner 1977
Turner 1978
Turner 1982
Turner et al. 1976
Valiela and Teal 1979b
Valiela et al. 1976b
Valiela et al. 1978b
Virnstein et al. 1983
Weinstein 1979
Weinstein and Walters 1981
Weinstein et al. 1980b
Welsh 1980
Welsh et al. 1978
Wheeler and March 1979
Whigham and Simpson 1976b
Whigham et al. 1978
Whitney et al. 1975
Wiegert 1979
Williams 1955
Wolanski et al. 1980
Wolaver et al. 1980
Woodwell et al. 1977
Woodwell et al. 1979a

Woodwell et al. 1979b
Zilberberg 1966
Zimmerman et al. 1982

CATEGORY 1b: VALUES OF NATURAL MARSH -- INTERPRETATION

Alan 1950
Alan 1956
Barrett 1982
Eatie and Shabman 1982
Beal 1980
Beeftink 1975
Benson 1981
Bourn and Cottam 1939
Chabreck 1980
Chabreck 1981
Cruz 1980
Fruge 1982
Gilmore 1983
Gosselink et al. 1974
Hartman 1963
Herke 1972
Herke 1976
Herke 1978
Kraeuter and Wolf 1974
Lindall 1973
Lindall and Saloman 1977
Lugo and Snedaker 1974
Minello and Zimmerman 1982
Moyle and Hotchkiss 1945
Newbold 1981
Nixon 1982
Odum 1961
Odum 1970a
Odum 1974
Odum and Heald 1975
Odum and Smith 1981a
Odum and Smith 1981b
Odum et al. 1979
Odum et al. 1982
Odum et al. 1984
Peterson 1981
Peterson and Peterson 1979
Pomeroy and Wiegert 1981
Pomeroy et al. 1977
Provost 1968
Provost 1969a
Provost 1973a
Provost 1973b
Provost 1977b
Rabelais 1980
Race and Christie 1982
Reimold et al. 1980
Seliskar and Gallagher 1983

Shanholtzer 1974
Shaw and Fredine 1956
Simpson et al. 1983a
Sloey et al. 1978
Stone et al. 1978
Street and McClees 1981
Tiner 1984
Weller 1978
Whigham et al. 1982
Whitlatch 1982
Wilson 1968
Winchester 1982
Woodwell 1977
Zedler 1982

CATEGORY 2a: VALUES OF IMPOUNDED COASTAL WETLANDS -- HARD DATA

Anderson 1976
Beeftink 1975
Chabreck and Hoffpauer 1962
Chapman and Ferrigno 1956
Clements and Rogers 1964
Ensminger 1963
Harrington and Harrington 1982
Herke 1978
Homer and Williams
Jameison and Chabreck 1962
LaSalle and Knight 1974
Landers et al. 1976
Leenhouts and Baker 1982
Livingston 1984
Lunz 1956
Lunz 1958
Lunz 1968
Manzi et al. 1977
Miglaresse and Sandifer 1982
Morgan 1974
Morgan et al. 1975
Odum et al. 1983
Paille et al. 1984
Rogers 1962
Schooley 1980
Schwartz 1976
Tarbox 1974
Theiling and Loyacano 1976
Turner et al. 1976
Weaver and Holloway 1974
Welsh et al. 1978
Wheeler and March 1979
Whitman 1976
Widjeskog 1974
Yakupzack et al. 1977
Zimmerman et al. 1982

CATEGORY 2b: VALUES OF IMPOUNDED COASTAL WETLANDS -- INTERPRETATION

Alan 1950
Alan 1956
Baldwin 1968
Beeftink 1975
Bourn and Cottam 1939
Chabreck 1960
Chabreck 1968
Chabreck 1975
Chabreck 1980
Chabreck 1981
Conner and Truesdale 1972
Daiber 1974
Daiber 1982
Ferrigno and Jobbins 1966
Heitzman 1978
Herke 1972
Herke 1976
Huner 1979
Huner 1981
Lareau 1984
Neely 1962
Peterson 1981
Provost 1968
Provost 1969a
Provost 1969b
Provost 1972a
Provost 1973b
Provost 1977b
Shaw and Fredine 1956
Sloey et al. 1978
Tindall 1961
Weller 1978
Wilson 1968
Woodwell 1977

CATEGORY 3: HISTORY OF IMPOUNDED COASTAL WETLANDS

Bidlingmayer 1982
Breeland and Mulrennan 1983
Daiber 1974
Ensminger 1963
Gilmore 1983
Gresham and Hook 1982
Headlee 1939
Hefner and Brown 1984
Huner 1979
Lareau 1984
Leenhouts 1983
McKenzie et al. 1980
Migliarese and Sandifer 1982
Morgan 1974
Morgan et al. 1975

Provost 1972b
Provost 1977b
Shisler et al. 1978
Sykes 1980

CATEGORY 4: DISTRIBUTION AND ACREAGE OF IMPOUNDED COASTAL WETLANDS

Baldwin 1968
Bidlingmayer 1982
Davis et al. 1980
Ensminger 1963
Gilmore 1983
Herke 1968
Huner 1979
Lareau 1984
Leenhouts 1983
McKenzie et al. 1980
Meade 1969
Migliarese and Sandifer 1982
Morgan 1974
Provost 1972b
Provost 1973b
Shaw and Fredine 1956
Wilson 1962

CATEGORY 5: CLASSIFICATION OF IMPOUNDED COASTAL WETLANDS

Bidlingmayer 1982
Chabreck 1980
Chabreck 1981
Copeland 1974
Cowardin et al. 1979
Davis et al. 1980
Ferrigno and Jobbins 1968
Landers et al. 1976
Lindall and Saloman 1977
Mathews et al. 1980
McKenzie et al. 1980
Migliarese and Sandifer 1982
Morgan et al. 1975
Odum et al. 1982
Odum et al. 1984
Provost 1973a
Provost 1977
Rogers 1962
Tiner 1984
Weller 1978
Winchester 1982

CATEGORY 6: LAWS AND REGULATIONS PERTAINING TO IMPOUNDED COASTAL WETLANDS

Breeland and Mulrennan 1983
Lareau 1984
Leenhouts 1983
Sheffield et al. 1982

CATEGORY 7: GEOGRAPHIC AREAS OF SPECIAL CONCERN PERTAINING TO IMPOUNDED COASTAL WETLANDS

Hefner and Brown 1984
Lewis and Stoner 1983

PHYSICAL AND CHEMICAL FEATURES OF IMPOUNDED COASTAL WETLANDS AND NATURAL MARSH

CATEGORY 8: PHYSICAL ENVIRONMENT

Alan 1950
Armstrong and Hinson 1978
Balling and Resh 1982
Balling and Resh 1983a
Balling and Resh 1983b
Balling and Resh 1983c
Bearden 1967
Beeftink 1975
Beeftink 1979
Benson 1981
Boon 1975
Cooper 1982
Cowardin et al. 1979
Cross and Williams 1981
Cruz 1981
Dahlberg 1972
Daiber 1974
Davis and Brinson 1980
Davis et al. 1980
Day 1980
Dean 1975
Deevey 1948
Eleuterius and Eleuterius 1979
Faulkner and Cruz 1982
Ferrigno and Jobbins 1966
Ferrigno et al. 1967
Florschutz 1959
Funicelli and Rogers 1981
Gardener 1975
Gilmore et al. 1981a
Gilmore et al. 1981b
Gosselink and Turner 1978
Harrington and Harrington 1961

Herke 1968
Hoffpauer 1968
Jackson 1952
Johnsgard 1956
Kadlec 1960
Kadlec 1962
Ketchum 1951
Krull 1969
LaSalle and Knight 1973
LaSalle and Knight 1974
Leenhouts 1983
Lugo and Snedaker 1974
Mathews et al. 1980
McDonald 1955
Meade 1969
Migliarese and Sandifer 1982
Nixon and Oviatt 1973
Odum and Smith 1981a
Odum et al. 1982
Odum et al. 1984
Peterson and Peterson 1979
Pomeroy and Wiegert 1981
Provost 1973a
Provost 1976
Reddy and Patrick 1975
Resh and Balling 1983
Robel 1962
Roman et al. 1984
Schooley 1980
Seliskar and Gallagher 1983
Setchell 1924
Smith 1980
Smith 1983a
Smith 1983b
Smith 1983c
Smith and Kierspe 1981
Steever et al. 1976
Sternberger 1983
Stora and Arnoux 1983
Stout et al. 1980
Thompson et al. 1979
Trent et al. 1976
Turner 1976
Welsh et al. 1978
Whitlatch 1982
Wiegert et al. 1983
Wiehe 1935
Wolanski et al. 1980
Zedler 1982
Zedler et al. 1980

CATEGORY 9: WATER QUALITY AND BIOGEOCHEMISTRY

Anderson 1977
Armstrong and Hinson 1978
Banus et al. 1975
Bender and Correll 1974
Benson 1981
Bidlingmayer 1982
Blum 1969
Boto and Wellington 1983
Boto and Wellington 1984
Bowden 1982
Buresh et al. 1980
Burleigh 1966
Byron 1968
Carignan and Kalff 1980
Carlson 1983
Carlson et al. 1983
Carpenter et al. 1978
Cook and Powers 1958
Cooper 1982
Cruz 1980
Cruz 1981
Dahlberg 1972
Daiber 1974
Daly and Mathieson 1981
Davis and Brinson 1980
Day 1980
DeLaune and Patrick 1980
DeLaune et al. 1979
Dean 1975
Deevey 1948
Dolan et al. 1981
Erkenbrecher and Stevenson 1978
Faulkner and Cruz 1982
Federico et al. 1982
Funicelli and Rogers 1981
Gardener 1975
Gilmore et al. 1981a
Gilmore et al. 1981b
Gosselink and Turner 1978
Grant and Payne 1982
Haines 1975
Haines 1979a
Haines 1979c
Haines and Dunstan 1975
Haines et al. 1977
Harrington and Harrington 1961
Heinle and Flemer 1976
Henriksen and Jensen 1979
Herke 1968
Hoese 1960
Hopkinson and Schubauer 1984
Howarth 1979
Howarth and Teal 1979

Jackson 1952
Jones 1974
Jorgensen 1977
Kadlec 1960
Kadlec 1962
Kaplan et al. 1979
Ketchum 1951
Khalid et al. 1982
Kistritz et al. 1983
Kuenzler and Marshall 1973
Lathwell et al. 1969
Lipschultz 1981
Lugo and Snedaker 1974
MacCrimmon 1980
Mahoney and Gibson 1983
Mayer and Low 1970
McColl and Burger 1976
McDonald 1955
Mendelsohn 1979
Mendelsohn and Marcellus 1976
Mendelsohn et al. 1981
Montgomery et al. 1983
Moyle 1945
Neely 1962
Nixon 1980
Nixon et al. 1976
Odum 1970a
Odum and Smith 1981a
Odum et al. 1979
Onuf et al. 1977
Pomeroy and Wiegert 1981
Ponnampereuma 1972
Reddy and Patrick 1975
Reimold 1972
Robel 1961
Rockel 1969
Rollins 1973
Ryther and Dunstan 1971
Schooley 1980
Schwartz 1976
Setchell 1924
Short 1983
Simpson et al. 1978
Simpson et al. 1983b
Sloey et al. 1978
Sompongse and Graetz 1982
Stora and Arnoux 1983
Stout et al. 1980
Sullivan and Daiber 1974
Teal et al. 1979
Teeter 1965
Valiela and Teal 1974
Valiela and Teal 1979a
Valiela and Teal 1979b
Valiela et al. 1975

Valiela et al. 1976a
Valiela et al. 1978a
Valiela et al. 1978b
Van Raalte et al. 1974
Verhoeven 1975
Weinstein 1979
Weinstein et al. 1980b
Welsh 1980
Welsh et al. 1978
Whitman 1976
Whitney et al. 1975
Wilhm and Dorris 1968
Williams 1964
Wolaver et al. 1980
Woodwell et al. 1977
Woodwell et al. 1979a
Woodwell et al. 1979b

CATEGORY 10: SEDIMENT/SOILS

Adams 1963
Armentano and Woodwell 1975
Baden et al. 1975
Banus et al. 1975
Boto and Wellington 1984
Bowden 1982
Carlson et al. 1983
Carpenter et al. 1978
Cook and Powers 1958
Cruz 1980
Daiber 1974
Daigh and Stearns 1939
Daigh et al. 1938
DeLaune and Patrick 1980
DeLaune et al. 1978
DeLaune et al. 1979
Dean 1975
Gleason et al. 1979
Gosselink and Turner 1978
Grant and Payne 1982
Haines 1979a
Harris and Marshall 1963
Hopkinson and Schubauer 1984
Jackson 1952
Joint 1978
Jorgensen 1977
Krottje et al. 1982
Lathwell et al. 1969
Lee and Partridge 1983
MacCrimmon 1980
Mathews et al. 1980
Meade 1969
Mendelssohn and Marcellus 1976
Montgomery et al. 1983

Moyle 1945
Neely 1958
Neely 1962
Nixon and Oviatt 1973
Odum 1968
Odum and Smith 1981a
Odum et al. 1982
Odum et al. 1984
Peterson and Peterson 1979
Pomeroy and Wiegert 1981
Ponnampertuma 1972
Reddy and Patrick 1975
Redfield 1972
Reed 1947
Reimold 1975
Richard 1978
Rockel 1969
Rollins 1973
Schwartz 1976
Seliskar and Gallagher 1983
Settlemyre and Gardner 1977
Smith 1970
Sompongse and Graetz 1982
Stalter 1973
Stout et al. 1980
Wang et al. 1979
Whitlatch 1982
Zedler 1982

CATEGORY 11: CONTAMINANT EFFECTS

Ali and Lord 1980
Banus et al. 1975
Busch 1974
Carey 1974
Conte and Parker 1975
Delfino et al. 1984
Edwards and Davis 1974
Ferrigno and Jobbins 1965
French and Montgomery 1983
Gosselink and Turner 1978
Grant and Payne 1982
Harrington and Biddlingmayer 1958
Livingston 1984
Montgomery and Price 1979
Mulla et al. 1979
Multer 1984
Olsen 1984
Patterson and von Windeguth 1964
Provost 1977a
Purcell 1981
Slavin et al. 1975
Valiela et al. 1975
Valiela et al. 1976b

Wang et al. 1979
Wellings 1976

ECOLOGICAL FEATURES OF IMPOUNDED COASTAL WETLANDS AND
NATURAL MARSH

CATEGORY 12: TROPHIC WEB

Adams and Angelovic 1970
Alan 1950
Carlson et al. 1983
Christian and Wetzel 1978
Cruz 1973
Cruz 1980
Daiber 1974
Dean 1975
Deevey 1948
Duke et al. 1981
Erkenbrächer and Stevenson 1978
Ferrigno and Jobbins 1965
Gilmore 1983
Haines 1975
Haines 1976
Haines 1977
Haines 1979b
Haines 1979c
Haines and Dunstan 1975
Haines and Montague 1979
Haines et al. 1977
Hansen 1970
Harrington and Harrington 1960
Harrington and Harrington 1961
Harrington and Harrington 1972
Harrington and Harrington 1982
Harriss et al. 1980
Heinle and Flemer 1976
Heinle et al. 1973
Howarth 1979
Howarth and Teal 1979
Hughes and Sherr 1983
Jefferies 1975
Johnson and Calder 1973
Joint 1978
Jorgensen 1977
Kirby-Smith 1975
Kirby-Smith and Barber 1974
Kistritz et al. 1983
Knott 1980
Kruczynski et al. 1978a
Kruczynski et al. 1978b
Kruell 1970
Kuenzler and Marshall 1973
Lipschultz 1981

Marsh and Odum 1979
May 1974
Nixon 1980
Nixon 1982
Nixon and Oviatt 1973
Nixon et al. 1976
Odum 1961
Odum 1968
Odum 1970a
Odum 1970b
Odum 1974
Odum and Cruz 1967
Odum and Heald 1972
Odum and Heald 1975
Odum and Heywood 1978
Odum and Smalley 1959
Odum and Smith 1981a
Odum et al. 1979
Odum et al. 1982
Odum et al. 1984
Onuf et al. 1977
Paerl 1974
Patrick and DeLaune 1976
Peterson and Peterson 1979
Pip and Stewart 1976
Pomeroy and Wiegert 1981
Pomeroy et al. 1977
Reddy and Patrick 1975
Reimold 1975
Reimold et al. 1975
Ruble and Dornseif 1978
Sandifer et al. 1980
Schooley 1980
Seliskar and Gallagher 1983
Settlemyre and Gardner 1977
Shanholtzer 1974
Sharp 1962
Shisler and Jobbins 1977b
Simpson et al. 1983a
Smith and Odum 1981
Stieglitz 1972
Stoner 1982
Stoner 1983
Stoner and Livingston 1984
Tagatz 1968
Teal 1962
Teal and Kanwisher 1961
Thayer et al. 1974
Turner 1977
Turner 1978
Ustach 1982
Valentine et al. 1972
Valiela et al. 1978b
Vince et al. 1976
Virnstein et al. 1983

Welsh 1980
Whitlatch 1982
Wiegert 1979
Wilcox and Jeffries 1974
Williams et al. 1968
Wolanski et al. 1980
Woodwell et al. 1977
Woodwell et al. 1979b
Youngbluth 1982
Zedler 1982

CATEGORY 13: PLANT ECOLOGY

Adams 1963
Adams 1976
Alan 1950
Anderson 1977
Baden et al. 1975
Balling and Resh 1983c
Banus et al. 1975
Beeftink 1975
Beeftink 1979
Beule 1979
Bidlingmayer 1982
Boto and Wellington 1983
Boto and Wellington 1984
Bourn 1932
Bourn 1935
Bourn and Cottam 1950
Brockway 1960
Buresh et al. 1980
Burger and Shisler 1978
Burger and Shisler 1983
Carignan and Kalff 1980
Carlson et al. 1983
Carpenter et al. 1978
Chabreck 1980
Chabreck 1981
Chabreck and Hoffpauer 1962
Chapman and Ferrigno 1956
Chynoweth 1975
Clements and Rogers 1964
Cooper 1982
Critchler 1958
Cruz 1973
Cruz 1974
Cruz 1981
Daiber 1974
Daiber 1982
Daigh et al. 1938
Davis and Brinson 1980
Day 1980
DeLaune et al. 1979
Dean 1975

Deevey 1948
Dolan et al. 1981
Duke et al. 1981
Edwards and Davis 1974
Eleuterius and Eleuterius 1979
Ensminger 1963
Ferrigno 1970
Ferrigno et al. 1969
Fredrickson and Taylor 1982
French and Montgomery 1983
Gilmore 1983
Gilmore et al. 1981a
Haeger 1979
Haines 1979a
Harrington and Harrington 1961
Harrington and Harrington 1982
Harris and Marshall 1963
Heffernan and Gibson 1983
Heitzman 1978
Hess et al. 1975
Hoffpauer 1961
Holloway 1969
Hopkinson and Schubauer 1984
Hotchkiss 1967
Hotchkiss 1970
Jackson 1952
Jameison and Chabreck 1962
Joanen 1964
Johnsgard 1956
Joint 1978
Kadlec 1960
Kadlec 1962
Keefe 1972
Kiorboe 1980
Kirby and Gosselink 1976
Kistritz et al. 1983
Kraeuter and Wolf 1974
Kruczynski et al. 1978a
Kruczynski et al. 1978b
Krull 1969
Krull 1970
Kuenzler and Marshall 1973
LaSalle and Knight 1973
LaSalle and Knight 1974
Lathwell et al. 1969
Lee and Partridge 1983
Leenhouts and Baker 1982
Lesser et al. 1976
Linde 1969
Linthurst and Seneca 1981
Lugo and Snedaker 1974
Lynch et al. 1947
Mahoney and Gibson 1983
Marshall 1976
Martin et al. 1957

Mayer and Low 1970
McAtee 1911
McAtee 1915
McAtee 1939
McAtee 1939b
McColl and Burger 1976
McDonald 1955
McLain 1957
McNease and Glasgow 1970
Mendelsohn 1979
Mendelsohn and Marcellus 1976
Mendelsohn et al. 1981
Migliarese and Sandifer 1982
Montague 1980
Moyle 1945
Moyle and Hotchkiss 1945
Murkin et al. 1981
Myers 1955
Neely 1962
Newbold 1981
Nichols 1974
Odum 1961
Odum 1974
Odum and Cruz 1967
Odum and Heywood 1978
Odum and Smith 1981a
Odum et al. 1982
Odum et al. 1983
Odum et al. 1984
Onuf et al. 1977
Patrick and DeLaune 1976
Percival et al. 1970
Peterson and Peterson 1979
Pip and Stewart 1976
Pomeroy 1959
Pomeroy 1960
Pomeroy and Wiegert 1981
Prevost et al. 1978
Provost 1959
Provost 1968
Redfield 1972
Reed 1947
Reimold 1972
Reimold et al. 1975
Richardson 1980
Robel 1961
Robel 1962
Rockel 1969
Roman et al. 1984
Sandifer et al. 1980
Schooley 1980
Schwartz 1976
Seliskar and Gallagher 1983
Setchell 1924
Shiflet 1963

Shisler and Jobbins 1975
Shisler and Jobbins 1977a
Shisler et al. 1975
Simpson et al. 1978
Simpson et al. 1983a
Simpson et al. 1983b
Singleton 1951
Slavin et al. 1975
Smalley 1959
Smith 1942
Smith 1970
Smith and Odum 1981
Springer 1964
Stalter 1973
Steenis et al. 1958
Stæever et al. 1976
Sterling 1970
Stout et al. 1980
Sullivan and Daiber 1974
Sykes 1980
Teal et al. 1979
Teeter 1965
Tindall 1961
Travis et al. 1954
Turner 1976
Turner 1977
Turner 1978
Uhler 1944
Uhler and McGilvery 1969
Valiela and Teal 1974
Valiela and Teal 1979a
Valiela et al. 1975
Valiela et al. 1976a
Valiela et al. 1978a
Van Raalte et al. 1974
Verhoeven 1975
Virnstein 1982
Voigts 1976
Waits 1967
Weller 1975
Weller 1978
Wells 1928
Whigham and Simpson 1976a
Whigham and Simpson 1976b
Whigham et al. 1978
Whitlatch 1982
Wiegert et al. 1983
Wiehe 1935
Williams 1964
Zedler 1982
Zedler et al. 1980

CATEGORY 14: INVERTEBRATES

Adams and Angelovic 1970
Anderson 1976
Balling and Resh 1982
Banus et al. 1975
Bearden 1967
Bidlingmayer 1982
Bielsa et al. 1983
Bourn and Cottam 1950
Burleigh 1966
Cake 1983
Chabreck 1980
Chabreck 1981
Chynoweth 1975
Conte and Parker 1975
Cruz 1973
Cruz 1981
Daiber 1982
Deevey 1948
Edwards and Davis 1974
Ferrigno 1970
Ferrigno and Jobbins 1965
Gilmore 1983
Harrington and Bidlingmayer 1958
Heinle et al. 1973
Herke 1968
Herke 1978
Herke and Rogers 1983
Heydemann 1979
Hoese 1960
Hughes and Sherr 1983
Kirby-Smith 1975
Kirby-Smith and Barber 1974
Knott 1980
Knudsen et al. 1977
Kraeuter and Wolf 1974
Krull 1970
Kuenzler 1961
Kuenzler and Marshall 1973
Lassuy 1983b
Lesser et al. 1976
Lunz 1955
Lunz 1956
Lunz 1958
Lunz 1968
Manzi et al. 1977
Migliarese and Sandifer 1982
Minello and Zimmerman 1982
Montague 1980
Mulholland 1984
Murkin et al. 1981
Nixon 1982
Nixon and Oviatt 1973
Odum and Heald 1972

Odum and Smalley 1959
Odum and Smith 1981a
Odum et al. 1982
Odum et al. 1984
Onuf et al. 1977
Paille et al. 1984
Patterson and von Windeguth 1964
Peterson and Peterson 1979
Pfannkuche et al. 1975
Pip and Stewart 1976
Pomeroy and Wiegert 1981
Rockel 1969
Rose et al. 1975
Ruber 1967
Sandifer et al. 1980
Schooley 1980
Seliskar and Gallagher 1983
Shisler and Jobbins 1975
Shisler and Jobbins 1977a
Smalley 1959
Smalley 1960
Subrahmanyam et al. 1976
Tagatz 1968
Teal 1958
Teal 1959
Thayer et al. 1974
Trent et al. 1976
Turner 1977
Turner and Brody 1983
Ustach 1982
Van Den Avyle and Fowler 1984
Vince et al. 1976
Voigts 1976
Weaver 1969
Weaver and Holloway 1974
Weinstein 1979
Weinstein et al. 1980b
Weller 1978
Welsh et al. 1978
Whitlatch 1982
Wieser and Kanwisher 1961
Wilcox and Jeffries 1974
Williams 1955
Williams 1958
Williams et al. 1968
Yakupzack et al. 1977
Youngbluth 1982
Zedler 1982
Zilberberg 1966
Zimmerman et al. 1982

CATEGORY 15: MOSQUITOES AND OTHER BITING FLIES

Balling and Resh 1983b
Catts et al. 1963
Chapman and Ferrigno 1956
Clements and Rogers 1964
Daiber 1974
Daiber 1982
Edman 1971
Ezell and Vorgetts 1980
Ferrigno 1961
Ferrigno 1970
Ferrigno and Jobbins 1965
Ferrigno and Jobbins 1966
Ferrigno et al. 1969
Florschutz 1959
Haeger 1979
Hull et al. 1943
Kuenzler and Marshall 1973
LaSalle and Knight 1973
LaSalle and Knight 1974
Linley and Davies 1971
Nayar and Sauerma 1974
Nielsen and Nielsen 1953
O'Meara 1976
Provost 1951
Provost 1957
Provost 1977b
Rockel 1969
Rogers 1962
Seliskar and Gallagher 1983
Tindall 1961
Vorgetts et al. 1980
Zedler 1982

CATEGORY 16: FISH

Arnoldi et al. 1974
Avault et al. 1969
Balling et al. 1980
Bay 1968
Bearden 1967
Bidlingmayer 1982
Bodola 1970
Bourn and Cottam 1939
Burleigh 1966
Cain and Dean 1976
Chabreck 1980
Chabreck 1981
Christie 1978
Cruz 1973
Cruz 1981
Dahlberg 1972
Daiber 1974

Daiber 1982
Diaz 1982
Ferrigno and Jobbins 1965
Fritz et al. 1975
Gilmore 1983
Gilmore and Hastings 1983
Gilmore et al. 1981a
Gilmore et al. 1981b
Gilmore et al. 1983
Hansen 1970
Harrington 1958
Harrington 1966
Harrington and Bidlingmayer 1958
Harrington and Harrington 1960
Harrington and Harrington 1961
Harrington and Harrington 1972
Harrington and Harrington 1982
Haven 1957
Herke 1968
Herke 1969
Herke 1978
Herke and Rogers 1983
Hillestad 1975
Hoese 1960
Holloway 1969
Homer 1976
Homer and Williams
Hughes and Sherr 1983
Jefferies 1975
Knudsen and Herke 1978
Kuenzler and Marshall 1973
Lassuy 1983a
Lassuy 1983c
Lunz 1956
Lunz 1968
Marshall 1976
Migliarese and Sandifer 1982
Miller and Jorgenson 1969
Nixon 1982
Nixon and Oviatt 1973
Odum 1968
Odum 1970b
Odum and Heald 1972
Odum and Smith 1981a
Odum et al. 1982
Odum et al. 1984
Peterson and Peterson 1979
Pomeroy and Wiegert 1981
Reubsamen 1972
Rickards 1968
Sandifer et al. 1980
Schooley 1980
Seaman and Collins 1983
Seliskar and Gallagher 1983
Shanholtzer 1974

Sharma and Al-Daham 1979
Shenker and Dean 1979
Stickney and Cuenco 1982
Stoner 1982
Stoner 1983
Stoner and Livingston 1984
Stout et al. 1980
Subrahmanyam and Drake 1975
Suttkus 1954
Tabb 1958
Tarbox 1974
Thayer et al. 1974
Theiling and Loyacano 1976
Tucker and Hodson 1976
Turner 1966
Turner and Johnson 1974
Vince et al. 1976
Weaver 1969
Weaver and Holloway 1974
Weinstein 1979
Weinstein and Walters 1981
Weinstein et al. 1980a
Weinstein et al. 1980b
Whitlatch 1982
Zedler 1982
Zilberberg 1966

CATEGORY 17: WATERFOWL

Bidlingmayer 1982
Catts et al. 1963
Chabreck 1980
Chabreck 1981
Chamberlain 1960
Daiber 1974
Daiber 1982
Delta Waterfowl Research Station 1982
Ferrigno 1961
Ferrigno 1970
Ferrigno and Jobbins 1965
Florschutz 1959
Hartman 1963
Jameison and Chabreck 1962
Johnsgard 1956
Keith 1961
Kiorboe 1980
Krull 1970
Kuenzler and Marshall 1973
Landers et al. 1976
Lewis and Garrison 1984
Martin and Uhler 1939
McAtee 1911
McAtee 1915
McAtee 1939

McAtee 1939b
McCull and Burger 1976
McLain 1957
Migliarese and Sandifer 1982
Morgan 1974
Moyle and Hotchkiss 1945
Murkin et al. 1981
Newbold 1981
Nixon 1982
Odum and Smith 1981a
Odum et al. 1982
Odum et al. 1984
Peterson and Peterson 1979
Prevost et al. 1978
Provost 1959
Provost 1969a
Provost 1977
Rorabaugh and Zwank 1983
Sandifer et al. 1980
Schwartz 1976
Seliskar and Gallagher 1983
Shanholtzer 1974
Sjoberg and Danell 1981
Smith and Odum 1981
Springer 1964
Sterling 1970
Stieglitz 1972
Stieglitz and Wilson 1968
Tindall 1961
Wheeler and March 1979
Whitlatch 1982
Zedler 1982

CATEGORY 18: WILDLIFE (OTHER THAN WATERFOWL)

Bidlingmayer 1982
Bourn and Cottam 1939
Burger and Shisler 1978
Burger and Shisler 1979
Cagle 1952
Chabreck 1980
Chabreck 1981
Cruz 1981
Daiber 1974
Daiber 1982
DeLotelle et al. 1982
Ferrigno 1961
Ferrigno and Jobbins 1965
Florschutz 1959
Johnsgard 1956
Kuenzler and Marshall 1973
Lathwell et al. 1969
McAtee 1939b
Migliarese and Sandifer 1982

Newbold 1981
Nixon 1982
Odum and Smith 1981a
Odum et al. 1982
Odum et al. 1984
Onuf et al. 1977
Peterson and Peterson 1979
Pomeroy and Wiegert 1981
Provost 1959
Provost 1969a
Provost 1977
Ruibal 1959
Sandifer et al. 1980
Seliskar and Gallagher 1983
Shanholtzer 1974
Sharp 1962
Stout et al. 1980
Sykes 1975
Sykes 1980
Tindall 1961
Valentine et al. 1972
Viosca 1923
Whitlatch 1982
Wilson 1968
Zedler 1982

MANAGEMENT

CATEGORY 20: WATERFOWL

Alan 1950
Alan 1956
Baldwin 1968
Beule 1979
Bidlingmayer 1982
Bourn and Cottam 1939
Bourn and Cottam 1950
Bradbury 1938
Bradley and Cook 1951
Brockway 1960
Cartwright 1942
Catts et al. 1963
Chabreck 1960
Chabreck 1968
Chabreck 1975
Chabreck and Hoffpauer 1962
Chamberlain 1960
Christiansen and Low 1970
Critchler 1958
Daiber 1974
Daiber 1982
Davis and Brinson 1980
Delta Waterfowl Research Station 1982

Ensminger 1963
Ferrigno et al. 1969
Fredrickson and Taylor 1982
Fruge 1982
Gosselink et al. 1974
Griffith 1948
Harris and Marshall 1963
Heitzman 1978
Herke 1968
Hess et al. 1975
Hoffpauer 1968
Huner 1981
Joanen 1964
Johnsgard 1956
Kadlec 1960
Kadlec 1962
Keith 1961
Landers et al. 1976
Leenhouts 1983
Linde 1969
Lynch et al. 1947
Mayer and Low 1970
McKenzie et al. 1980
McLain 1957
McNease and Glasgow 1970
Migliarese and Sandifer 1982
Morgan 1974
Morgan et al. 1975
Neely 1958
Neely 1962
Neely 1968
Neely and Davison 1971
Nichols 1974
O'Meara 1976
Percival et al. 1970
Perry et al. 1970
Prevost et al. 1978
Robel 1961
Rollins 1973
Shiflet 1963
Singleton 1951
Smith 1942
Smith 1970
Steenis et al. 1958
Tindall 1961
Uhler 1944
Uhler and McGilvery 1969
Weller 1975
Weller 1978
Wheeler and March 1979
Whitman 1973
Whitman 1976
Wicker et al. 1983
Wilson 1955
Wilson 1962

CATEGORY 21: CONTROL OF MOSQUITOES AND OTHER BITING FLIES

Ali and Lord 1980
Balling and Resh 1982
Balling and Resh 1983a
Balling and Resh 1983b
Balling and Resh 1983c
Balling et al. 1980
Bay 1968
Bidlingmayer 1982
Bodola 1970
Bourn and Cottam 1939
Bourn and Cottam 1950
Bradbury 1938
Breealand and Mulrennan 1983
Brockway 1960
Burger and Shisler 1978
Burger and Shisler 1979
Burger and Shisler 1983
Busch 1974
Carey 1974
Carlson 1982
Carlson 1983
Catts et al. 1963
Chapman and Ferrigno 1956
Clements and Rogers 1964
Conte and Parker 1975
Cottam 1938
Daiber 1974
Daiber 1982
Daigh and Stearns 1939
Ezell and Vorgetts 1980
Ferrigno 1961
Ferrigno 1970
Ferrigno and Jobbins 1965
Ferrigno and Jobbins 1966
Ferrigno and Jobbins 1968
Ferrigno et al. 1967
Ferrigno et al. 1969
Ferrigno et al. 1975
Florschutz 1959
Frank et al. 1980
Gilmore 1983
Gulf South Research Institute 1977
Haeger 1979
Hansen et al. 1976
Harrington and Harrington 1961
Harrington and Harrington 1982
Herke 1968
Hull et al. 1943
Kuenzler and Marshall 1973
LaSalle and Knight 1973
LaSalle and Knight 1974
Leenhouts 1983
Leenhouts and Baker 1982

Lesser et al. 1976
Linley and Davies 1971
Marshall 1976
McKenzie et al. 1980
Merriam and Axtell 1983
Mulla and Darwazeh 1979
Mulla et al. 1979
Multer 1984
Nayar and Sauerman 1974
Platts et al. 1943
Provost 1959
Provost 1968
Provost 1969a
Provost 1969b
Provost 1972a
Provost 1972b
Provost 1973b
Provost 1977b
Purcell 1981
Resh and Balling 1983
Rockel 1969
Rogers 1962
Sandifer et al. 1980
Sharma and Al-Daham 1979
Shisler and Jobbins 1975
Shisler and Jobbins 1977a
Shisler et al. 1975
Shisler et al. 1978
Shisler et al. 1979
Slavin 1974
Slavin et al. 1975
Springer 1964
Travis et al. 1954
Vorgetts et al. 1980
Whigham et al. 1982
Widjeskog 1974

CATEGORY 22: RICE FARMING

Gresham and Hook 1982
McKenzie et al. 1980
Migliarese and Sandifer 1982

CATEGORY 23: AQUACULTURE

Anderson 1976
Avault et al. 1969
Bearden 1967
Dean 1975
Deevey 1948
Gosselink et al. 1974
Herke 1968
Herke 1976

Huner 1979
Huner 1981
Kirby-Smith 1975
Kirby-Smith and Barber 1974
Lunz 1955
Lunz 1956
Lunz 1958
Lunz 1968
Manzi et al. 1977
McKenzie et al. 1980
Neely 1962
Perry et al. 1970
Rose et al. 1975
Williams 1958

CATEGORY 24: WASTEWATER TREATMENT AND DREDGE SPOIL DISPOSAL

Banus et al. 1975
Bender and Correll 1974
Blum 1969
Boto and Wellington 1983
Buresh et al. 1980
Carlson 1982
Carlson 1983
Daiber 1974
Daly and Mathieson 1981
Dolan et al. 1981
Ezell and Vorgetts 1980
Federico et al. 1982
Gosselink et al. 1974
Haines 1979a
Herke 1968
Khalid et al. 1982
Krottje et al. 1982
Nessel et al. 1972
Onuf et al. 1977
Patrick and DeLaune 1976
Sheffield et al. 1982
Simpson et al. 1978
Simpson et al. 1983b
Sullivan and Daiber 1974
Tilton and Kadlec 1979
Trent et al. 1976
Turner et al. 1976
Valiela et al. 1975
Valiela et al. 1976b
Van Raalte et al. 1974
Wellings 1976
Whigham and Simpson 1976a
Whigham and Simpson 1976b
Woodwell 1977

CATEGORY 25: CONSTRUCTION AND MAINTENANCE

Bidlingmayer 1982
Cartwright 1942
Chabreck 1960
Chabreck 1968
Chabreck 1975
Chabreck and Hoffpauer 1962
Ezell and Vorgetts 1980
Ferrigno and Jobbins 1968
Ferrigno et al. 1967
Ferrigno et al. 1969
Ferrigno et al. 1975
Fredrickson and Taylor 1982
Hansen et al. 1976
Herke 1968
Herke 1978
Hoffpauer 1968
Linde 1969
Lynch and Langford 1971
Martin et al. 1957
McKenzie et al. 1980
McNease and Glasgow 1970
Migliarese and Sandifer 1982
Morgan 1974
Morgan et al. 1975
Nichols 1974
Perry et al. 1970
Provost 1973b
Rogers 1962
Rollins 1973
Sheffield et al. 1982
Shisler et al. 1978
Shisler et al. 1979
Weller 1978
Whitman 1973
Wicker et al. 1983
Wilson 1955

CATEGORY 26: WILDLIFE (OTHER THAN WATERFOWL)

Bourn and Cottam 1950
Bradbury 1938
Bradley and Cook 1951
Cartwright 1942
Chabreck 1975
Chabreck and Hoffpauer 1962
Cottam 1938
Cruz 1980
Daiber 1974
Daiber 1982
DeLotelle et al. 1982
Fredrickson and Taylor 1982
Fruge 1982

Gosselink et al. 1974
Harris and Marshall 1963
Herke 1968
Hess et al. 1975
Hoffpauer 1968
Johnsgard 1956
Leenhouts 1983
Leenhouts and Baker 1982
Linde 1969
Lynch et al. 1947
McKenzie et al. 1980
McLain 1957
Neely 1962
Smith 1942
Smith 1970
Stone et al. 1978
Sykes 1975
Weller 1975
Weller 1978
Wicker et al. 1983
Wilson 1968

CATEGORY 27: FISHERIES AND ESTUARIES

Adams 1976
Barrett 1982
Beal 1980
Benson 1981
Cross and Williams 1981
Cruz 1980
Daiber 1974
French and Montgomery 1983
Fruge 1982
Funicelli and Rogers 1981
Gilmore 1983
Gilmore et al. 1981a
Gilmore et al. 1983
Gosselink et al. 1974
Harrington and Harrington 1982
Heffernan and Gibson 1983
Herke 1968
Herke 1972
Herke 1976
Herke and Rogers 1983
Hoskin 1983
Kulczycki et al. 1981
Lindall 1973
Lindall and Saloman 1977
Livingston 1984
Mahoney and Gibson 1983
McKenzie et al. 1980
Neely 1962
Paille et al. 1984
Peterson 1981

Pomeroy 1960
Ryther and Dunstan 1971
Schooley 1980
Short 1983
Skud and Wilson 1960
Stone et al. 1978
Stoner 1982
Stoner 1983
Stoner and Livingston 1984
Stora and Arnoux 1983
Stout et al. 1980
Street and McClees 1981
Turner 1977
Turner 1982
Virnstein 1982
Virnstein et al. 1983
Wicker et al. 1983
Williams 1955
Williams 1958

CONCEPTUAL MODELS

CATEGORY 28: NATURAL MARSHES AND ESTUARIES

Davis et al. 1980
Day et al. 1973
Gosselink and Turner 1978
Johnson 1980
Nixon and Oviatt 1973
Odum and Heald 1975
Odum et al. 1983
Pomeroy and Wiegert 1981
Sandifer et al. 1980
Simpson et al. 1983a
Sloey et al. 1978
Stone et al. 1978
Teal 1962
Valiela and Teal 1979a
Wells 1928
Wolanski et al. 1980