

# **Final Environmental Impact Statement**

for the

**Generic Essential Fish Habitat Amendment to the following fishery management plans of the Gulf of Mexico (GOM):**

**SHRIMP FISHERY OF THE GULF OF MEXICO  
RED DRUM FISHERY OF THE GULF OF MEXICO  
REEF FISH FISHERY OF THE GULF OF MEXICO  
STONE CRAB FISHERY OF THE GULF OF MEXICO  
CORAL AND CORAL REEF FISHERY OF THE GULF OF MEXICO  
SPINY LOBSTER FISHERY OF THE GULF OF MEXICO AND SOUTH ATLANTIC  
COASTAL MIGRATORY PELAGIC RESOURCES OF THE GULF OF MEXICO AND  
SOUTH ATLANTIC**



## **APPENDIX H**

### **NON-FISHING EFFECT SCORES**

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**RAW MEASURED EFFECTS VALUES FROM GIS ANALYSIS OF SPATIAL DATA FROM THE GULF OF MEXICO**

<b>ZONE</b>	<b>DEPTH_ZONE</b>	<b>STAT_ZONE</b>	<b>Toxic Chemical Releases</b>	<b>Structural Shading</b>	<b>Point Source Pollution</b>	<b>Oil Spills</b>	<b>Industrial Spills</b>	<b>Impingement/ Entrainment/ Thermal</b>	<b>Altered Freshwater Inflow</b>	<b>Eutrophication</b>	<b>Eutrophication</b>	<b>Dredge and Fill</b>	<b>Boating Impacts (propellar scarring, turbidity, groundings)</b>	<b>Harmful Algal Blooms</b>	<b>Boating Impacts (propellar scarring, turbidity, groundings)</b>	<b>Dredge and Fill</b>
1	Estuarine	1_1	0	102	2	0	0	0	0	0	0	629	102	81	0	12780
1	Nearshore	1_2	0	0	0	0	0	0	0	0	1	1	0	8	0	0
2	Estuarine	2_1	0	0	0	0	0	0	0	0	1	53	0	12	0	245
2	Nearshore	2_2	0	0	0	0	0	0	0	0	1	14	0	56	0	0
3	Estuarine	3_1	0	40	0	0	0	0	2	0	0	380	40	442	0	4441
3	Nearshore	3_2	0	0	0	0	0	0	0	0	1	0	0	28	55305	55252
4	Estuarine	4_1	0	226	10	0	10	1	1	9	0	2830	226	4494	17309	41238
4	Nearshore	4_2	0	0	0	0	0	0	0	0	1	3	0	246	103891	103929
5	Estuarine	5_1	14	329	50	0	50	5	75	31	0	2378	494	7994	36502	56020
5	Nearshore	5_2	0	0	0	0	0	0	0	0	0	1	0	743	150128	146683
6	Estuarine	6_1	4	116	26	0	26	4	12	17	0	1115	167	252	0	46862
6	Nearshore	6_2	0	0	0	0	0	0	0	0	0	4	0	57	0	0
7	Estuarine	7_1	5	142	10	0	10	3	4	2	0	851	175	268	0	26149
7	Nearshore	7_2	0	0	0	0	0	0	0	0	0	3	0	80	0	0
8	Estuarine	8_1	1	103	7	0	7	1	2	5	0	500	169	700	26037	35922
8	Nearshore	8_2	0	0	0	0	0	0	0	0	0	5	13	320	163832	163799
9	Estuarine	9_1	0	76	2	0	2	0	1	2	0	379	110	253	0	607
9	Nearshore	9_2	0	0	0	0	0	0	0	0	0	4	0	69	99956	99952
10	Estuarine	10_1	11	87	24	14	24	1	3	12	0	643	175	45	84718	83911
10	Nearshore	10_2	0	9	0	9	0	0	0	0	0	24	2	7	196377	192381

ZONE	DEPTH_ZONE	STAT_ZONE	Toxic Chemical Releases		Point Source Pollution	Oil Spills	Industrial Spills	Impingement/ Entrainment/ Thermal	Altered Freshwater Inflow	Eutrophication	Eutrophication	Dredge and Fill	Boating Impacts (propellar scarring, turbidity, groundings)	Harmful Algal Blooms	Boating Impacts (propellar scarring, turbidity, groundings)	Dredge and Fill
11	Estuarine	11_1	16	131	30	131	30	1	3	13	0	1013	133	0	186982	187163
11	Nearshore	11_2	0	204	0	204	0	0	0	0	0	413	0	0	206169	206030
12	Estuarine	12_1	9	61	29	61	29	2	2	18	0	2704	64	0	32637	32703
12	Nearshore	12_2	0	0	0	0	0	0	0	0	0	0	0	0	5402	5395
13	Estuarine	13_1	1	190	2	190	2	0	0	1	0	1723	0	0	7847	7872
13	Nearshore	13_2	0	179	0	179	0	0	0	0	1	371	0	0	194902	194870
14	Estuarine	14_1	36	542	83	542	83	6	1	41	0	3186	0	0	12587	12578
14	Nearshore	14_2	0	250	0	250	0	0	0	0	1	526	0	0	67742	68085
15	Estuarine	15_1	38	609	58	609	58	5	2	15	0	2568	0	0	9122	9131
15	Nearshore	15_2	0	426	0	426	0	0	0	0	1	871	0	0	0	0
16	Estuarine	16_1	1	388	8	388	8	1	3	6	0	1260	0	0	11510	11510
16	Nearshore	16_2	0	313	0	313	0	0	0	0	1	673	0	0	53185	53895
17	Estuarine	17_1	33	337	45	337	45	0	7	12	0	1260	77	0	270778	273615
17	Nearshore	17_2	0	194	0	194	0	0	0	0	1	456	0	0	281627	283394
18	Estuarine	18_1	92	100	254	100	254	12	12	150	0	1746	249	0	325582	325996
18	Nearshore	18_2	0	72	0	72	0	0	0	0	1	173	0	0	210233	226246
19	Estuarine	19_1	16	8	29	8	29	2	17	11	0	1081	129	0	60409	60712
19	Nearshore	19_2	0	167	0	167	0	0	0	0	0	362	0	0	278558	289103
20	Estuarine	20_1	13	0	29	0	29	2	4	14	0	891	93	0	24846	24846
20	Nearshore	20_2	0	71	0	71	0	0	0	0	1	160	0	0	377146	424298
21	Estuarine	21_1	0	0	15	0	15	0	3	15	0	420	19	0	13360	13505
21	Nearshore	21_2	0	5	0	5	0	0	0	0	1	21	0	0	180618	180659
		Min.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE	DEPTH_ZONE		STAT_ZONE	Toxic Chemical Releases	Structural Shading	Point Source Pollution	Oil Spills	Industrial Spills	Impingement/ Entrainment/ Thermal	Altered Freshwater Inflow	Eutrophication	Eutrophication	Dredge and Fill	Boating Impacts (propellar scarring, turbidity, groundings)	Harmful Algal Blooms	Boating Impacts (propellar scarring, turbidity, groundings)	Dredge and Fill
	Max.	Quarters															
				92.00	609.00	254.00	609.00	254.00	12.00	75.00	150.00	1.34	3186.00	494.00	7994.00	377145.71	424298.37
				23	152	64	152	64	3	19	38	0.33	797	124	1999	94286	106075
	1	0-23	0-152	0-64	0-152	0-64	0-3	0-19	0-38	0-.33	0-797	0-124	0-1999	0-94286	0-106075		
	2	24-47	153-305	65-129	153-305	65-129	4-7	20-39	39-77	.34-1595	798-1595	125-249	2000-3999	94287-188573	106076-212151		
	3	48-71	306-458	130-194	306-458	130-194	8-11	40-59	78-116	.68-1.01	1596-2393	250-374	4000-5999	188574-202860	212152-318227		
	4	72-95	459-611	195-259	459-611	195-259	12-15	60-79	117-155	1.02-1.35	2394-3191	375-499	6000-7999	202861-377147	318228-424302		

Raw measured effects values from GIS analysis of spatial data from the Gulf of Mexico (continued)

<b>ZONE</b>	<b>DEPTH_ZONE</b>	<b>STAT_ZONE</b>	<b>Dredge and Fill</b>	<b>Dredge and Fill</b>	<b>Hypoxia</b>	<b>Non-Point Source Pollution</b>	<b>Non-Point Source Pollution</b>	<b>Oil/Gas Operations</b>	<b>Shoreline Hardening</b>
1	Estuarine	1_1	12780	0	0	0	0	0	198
1	Nearshore	1_2	0	0	0	0	0	0	0
2	Estuarine	2_1	245	0	0	0	0	0	0
2	Nearshore	2_2	0	0	0	0	0	0	0
3	Estuarine	3_1	4441	0	0	2500	46	0	99
3	Nearshore	3_2	55252	0	0	0	0	0	0
4	Estuarine	4_1	41238	0	0	176072	398543	0	1025
4	Nearshore	4_2	103929	0	0	0	0	0	0
5	Estuarine	5_1	56020	0	0	402951	502044	0	688
5	Nearshore	5_2	146683	14	0	0	0	14	0
6	Estuarine	6_1	46862	28	0	326184	660407	28	177
6	Nearshore	6_2	0	109	0	0	0	109	0
7	Estuarine	7_1	26149	0	0	122719	687363	0	68
7	Nearshore	7_2	0	0	0	0	0	0	0
8	Estuarine	8_1	35922	0	0	62245	44037	0	140
8	Nearshore	8_2	163799	78	0	0	0	78	0
9	Estuarine	9_1	607	0	0	66721	6743	0	71
9	Nearshore	9_2	99952	68	0	0	0	68	0
10	Estuarine	10_1	83911	104	0	167494	458005	104	183
10	Nearshore	10_2	192381	204	0	0	0	204	0
11	Estuarine	11_1	187163	792	0	230947	223918	792	192



<b>ZONE</b>	<b>DEPTH_ZONE</b>	<b>STAT_ZONE</b>	<b>Dredge and Fill</b>	<b>Dredge and Fill</b>	<b>Hypoxia</b>	<b>Non-Point Source Pollution</b>	<b>Non-Point Source Pollution</b>	<b>Oil/Gas Operations</b>	<b>Shoreline Hardening</b>
11	Nearshore	11_2	206030	2281	0	0	0	2281	0
12	Estuarine	12_1	32703	399	0	170467	366549	399	165
12	Nearshore	12_2	5395	4	0	0	0	4	0
13	Estuarine	13_1	7872	1689	289207	6017	9753	1689	23
13	Nearshore	13_2	194870	1969	364020	0	0	1969	0
14	Estuarine	14_1	12578	2061	820958	345566	889159	2061	16
14	Nearshore	14_2	68085	2538	889069	0	0	2538	0
15	Estuarine	15_1	9131	2493	984267	208628	989831	2493	3
15	Nearshore	15_2	0	3329	1040662	0	0	3329	0
16	Estuarine	16_1	11510	1728	1000377	71511	1106021	1728	0
16	Nearshore	16_2	53895	2661	1041989	0	0	2661	0
17	Estuarine	17_1	273615	1668	1422359	121921	379156	1500	81
17	Nearshore	17_2	283394	1667	340279	0	0	1667	0
18	Estuarine	18_1	325996	1172	3216	970618	4092968	639	435
18	Nearshore	18_2	226246	696	0	0	0	696	0
19	Estuarine	19_1	60712	657	0	138881	1735662	131	189
19	Nearshore	19_2	289103	783	0	0	0	783	0
20	Estuarine	20_1	24846	267	0	139523	934414	7	124
20	Nearshore	20_2	424298	517	0	0	0	517	0
21	Estuarine	21_1	13505	204	0	137178	1114252	0	39
21	Nearshore	21_2	180659	87	0	0	0	87	0
		Min.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max.	424298.37	3329.20	1422359.21	970617.78	4092967.72	3329.20	1025.34

ZONE	DEPTH_ZONE	STAT_ZONE	Dredge and Fill	Dredge and Fill	Hypoxia	Non-Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Shoreline Hardening
		Quarters	106075	832	355590	242654	1023242	832	256
	1	0-106075	0-832	0-355590	0-242654	0-1023242	0-832	0-256	
	2	106076-212151	833-1665	355591-711181	242655-485309	1023243-2046485	833-1665	257-513	
	3	212152-318227	1666-2498	711182-1066722	485310-727964	2046486-3069728	1666-2498	514-770	
	4	318228-424302	2499-3331	1066723-1422363	727965-970619	3069729-4092971	2499-3331	771-1027	

## NON-FISHING EFFECT SCORES

	Physical						Water Quality					Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms
<b>Zone 1</b>													
<b>Estuarine</b>													
Seagrasses	3	1	0	3	3	0	3	1	0	0	0	0	0
Mangroves	3	3	0	3	0	0	1	0	0	0	0	0	0
Benthic Algae	3	1	0	3	0	0	2	1	0	0	0	0	1
Drifting Algae	3	1	0	0	0	0	1	0	0	0	0	0	0
Emergent Marshes	3	3	0	3	0	0	2	0	0	0	0	0	0
Sand/Shell Bottom	3	1	0	1	0	0	2	0	0	0	0	0	0
Soft Bottom	3	1	0	1	0	0	2	0	0	0	0	0	0
Hardbottom	3	1	0	2	0	0	2	0	0	0	0	0	1
Oyster Bars	3	2	0	2	0	0	2	0	0	0	0	0	1
Pelagic	2	1	0	0	0	0	2	0	0	0	0	0	3
<b>Nearshore</b>													
Seagrasses	3	1	0	3	3	0	3	1	0	0	0	0	0
Mangroves	3	3	0	3	0	0	1	0	0	0	0	0	0
Benthic Algae	3	1	0	3	0	0	2	1	0	0	0	0	1
Drifting Algae	3	1	0	0	0	0	1	0	0	0	0	0	0
Sand/Shell Bottom	3	3	0	3	0	0	2	0	0	0	0	0	0
Soft Bottom	3	1	0	1	0	0	2	0	0	0	0	0	0
Hardbottom	3	1	0	1	0	0	2	0	0	0	0	0	0
Banks/Shoals	3	1	0	2	0	0	2	0	0	0	0	0	1
Reefs	3	2	0	2	3	0	2	2	0	0	0	0	1
Pelagic	2	1	0	0	0	0	2	0	0	0	0	0	3

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality					Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms
<b>Zone 2</b>													
<b>Estuarine</b>													
Seagrasses	3	0	0	0	0	0	0	0	0	0	0	0	0
Mangroves	3	0	0	0	0	0	0	0	0	0	0	0	0
Benthic Algae	3	0	0	0	0	0	0	0	0	0	0	0	1
Drifting Algae	3	0	0	0	0	0	0	0	0	0	0	0	0
Emergent Marshes	3	0	0	0	0	0	0	0	0	0	0	0	0
Sand/Shell Bottom	3	0	0	0	0	0	0	0	0	0	0	0	0
Soft Bottom	3	0	0	0	0	0	0	0	0	0	0	0	0
Hardbottom	3	0	0	0	0	0	0	0	0	0	0	0	1
Oyster Bars	3	0	0	0	0	0	0	0	0	0	0	0	1
Pelagic	2	0	0	0	0	0	0	0	0	0	0	0	3
<b>Nearshore</b>													
Seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0
Mangroves	0	0	0	0	0	0	0	0	0	0	0	0	0
Benthic Algae	0	0	0	0	0	0	0	0	0	0	0	0	1
Drifting Algae	0	0	0	0	0	0	0	0	0	0	0	0	0
Sand/Shell Bottom	0	0	0	0	0	0	0	0	0	0	0	0	0
Soft Bottom	0	0	0	0	0	0	0	0	0	0	0	0	0
Hardbottom	0	0	0	0	0	0	0	0	0	0	0	0	1
Banks/Shoals	0	0	0	0	0	0	0	0	0	0	0	0	0
Reefs	0	0	0	0	0	0	0	0	0	0	0	0	1
Pelagic	0	0	0	0	0	0	0	0	0	0	0	0	3

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality					Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms
<b>Zone 3</b>													
<b>Estuarine</b>													
Seagrasses	3	1	0	3	0	2	0	3	0	0	0	0	0
Mangroves	3	3	0	3	0	2	0	1	0	0	0	0	0
Benthic Algae	3	1	0	3	0	3	0	2	0	0	0	0	1
Drifting Algae	3	1	0	0	0	2	0	1	0	0	0	0	0
Emergent Marshes	3	3	0	3	0	3	0	1	0	0	0	0	0
Sand/Shell Bottom	3	1	0	1	0	1	0	2	0	0	0	0	0
Soft Bottom	3	1	0	1	0	1	0	2	0	0	0	0	0
Hardbottom	3	1	0	2	0	2	0	2	0	0	0	0	1
Oyster Bars	3	2	0	2	0	3	0	2	0	0	0	0	1
Pelagic	2	1	0	0	0	2	0	2	0	0	0	0	3
<b>Nearshore</b>													
Seagrasses	3	0	0	0	3	0	0	0	0	0	0	0	0
Mangroves	3	0	0	0	2	0	0	0	0	0	0	0	0
Benthic Algae	3	0	0	0	2	0	0	0	0	0	0	0	1
Drifting Algae	3	0	0	0	2	0	0	0	0	0	0	0	0
Sand/Shell Bottom	3	0	0	0	1	0	0	0	0	0	0	0	0
Soft Bottom	3	0	0	0	1	0	0	0	0	0	0	0	0
Hardbottom	3	0	0	0	2	0	0	0	0	0	0	0	1
Banks/Shoals	3	0	0	0	2	0	0	0	0	0	0	0	0
Reefs	3	0	0	0	3	0	0	0	0	0	0	0	1
Pelagic	3	0	0	0	0	0	0	0	0	0	0	0	3

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 4</b>														
<b>Estuarine</b>														
Seagrasses	3	4	1	6	3	2	3	3	0	3	0	0	0	
Mangroves	3	12	1	6	2	2	1	1	0	2	0	0	0	
Benthic Algae	3	4	1	6	2	3	2	2	0	2	0	0	3	
Drifting Algae	3	4	1	0	2	2	1	1	0	2	0	0	0	
Emergent Marshes	3	12	1	6	3	3	2	1	0	2	0	0	0	
Sand/Shell Bottom	3	4	0	2	2	1	2	2	0	1	0	0	0	
Soft Bottom	3	4	0	2	2	1	2	2	0	1	0	0	0	
Hardbottom	3	4	1	4	2	2	2	2	0	1	0	0	3	
Oyster Bars	3	8	3	4	2	3	2	2	0	2	0	0	3	
Pelagic	2	4	3	0	1	2	2	2	0	3	0	0	9	
<b>Nearshore</b>														
Seagrasses	3	0	0	0	6	0	0	0	0	0	0	0	0	
Mangroves	3	0	0	0	4	0	0	0	0	0	0	0	0	
Benthic Algae	3	0	0	0	4	0	0	0	0	0	0	0	1	
Drifting Algae	3	0	0	0	4	0	0	0	0	0	0	0	0	
Sand/Shell Bottom	3	0	0	0	2	0	0	0	0	0	0	0	0	
Soft Bottom	3	0	0	0	2	0	0	0	0	0	0	0	0	
Hardbottom	3	0	0	0	4	0	0	0	0	0	0	0	1	
Banks/Shoals	3	0	0	0	4	0	0	0	0	0	0	0	0	
Reefs	3	0	0	0	6	0	0	0	0	0	0	0	1	
Pelagic	3	0	0	0	0	0	0	0	0	0	0	0	3	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 5</b>														
<b>Estuarine</b>														
Seagrasses	3	3	2	9	3	8	3	6	0	3	2	0	0	
Mangroves	3	9	2	9	2	8	1	2	0	2	2	0	0	
Benthic Algae	3	3	2	9	2	12	2	4	0	2	3	0	4	
Drifting Algae	3	3	2	0	2	8	1	2	0	2	3	0	0	
Emergent Marshes	3	9	2	3	3	12	2	2	0	2	2	0	0	
Sand/Shell Bottom	3	3	0	3	2	4	2	4	0	1	0	0	0	
Soft Bottom	3	3	0	3	2	4	2	4	0	1	0	0	0	
Hardbottom	3	3	2	6	2	8	2	4	0	1	2	0	4	
Oyster Bars	3	6	6	6	2	12	2	4	0	2	3	0	4	
Pelagic	2	3	6	0	1	8	2	4	0	3	3	0	12	
<b>Nearshore</b>														
Seagrasses	6	0	0	0	6	0	0	0	0	0	0	0	0	
Mangroves	6	0	0	0	4	0	0	0	0	0	0	0	0	
Benthic Algae	6	0	0	0	4	0	0	0	0	0	0	0	1	
Drifting Algae	6	0	0	0	4	0	0	0	0	0	0	0	0	
Sand/Shell Bottom	6	0	0	0	2	0	0	0	0	0	0	0	0	
Soft Bottom	6	0	0	0	2	0	0	0	0	0	0	0	0	
Hardbottom	6	0	0	0	4	0	0	0	0	0	0	0	1	
Banks/Shoals	6	0	0	0	4	0	0	0	0	0	0	0	0	
Reefs	6	0	0	0	6	0	0	0	0	0	0	0	1	
Pelagic	6	0	0	0	0	0	0	0	0	0	0	0	3	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 6</b>														
<b>Estuarine</b>														
Seagrasses	3	1	2	3	0	2	3	6	0	3	2	0	0	
Mangroves	3	3	2	3	0	2	1	2	0	2	2	0	0	
Benthic Algae	3	1	2	3	0	3	2	4	0	2	3	0	1	
Drifting Algae	3	1	2	0	0	2	1	2	0	2	3	0	0	
Emergent Marshes	3	3	2	3	0	3	2	2	0	2	2	0	0	
Sand/Shell Bottom	3	1	0	1	0	1	2	4	0	1	0	0	0	
Soft Bottom	3	1	0	1	0	1	2	4	0	1	0	0	0	
Hardbottom	3	1	2	2	0	2	2	4	0	1	2	0	1	
Oyster Bars	3	2	6	2	0	3	2	4	0	2	3	0	1	
Pelagic	2	1	6	0	0	2	2	4	0	3	3	0	3	
<b>Nearshore</b>														
Seagrasses	3	0	0	0	0	0	0	0	0	0	0	0	0	
Mangroves	3	0	0	0	0	0	0	0	0	0	0	0	0	
Benthic Algae	3	0	0	0	0	0	0	0	0	0	0	0	1	
Drifting Algae	3	0	0	0	0	0	0	0	0	0	0	0	0	
Sand/Shell Bottom	3	0	0	0	0	0	0	0	0	0	0	0	0	
Soft Bottom	3	0	0	0	0	0	0	0	0	0	0	0	0	
Hardbottom	3	0	0	0	0	0	0	0	0	0	0	0	1	
Banks/Shoals	3	0	0	0	0	0	0	0	0	0	0	0	0	
Reefs	3	0	0	0	0	0	0	0	0	0	0	0	1	
Pelagic	3	0	0	0	0	0	0	0	0	0	0	0	3	



**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality					Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms
<b>Zone 7</b>													
<b>Estuarine</b>													
Seagrasses	3	1	1	3	3	2	3	3	3	3	2	1	0
Mangroves	3	3	1	3	2	2	1	1	2	2	2	0	0
Benthic Algae	3	1	1	3	2	3	2	2	2	2	3	3	1
Drifting Algae	3	1	1	0	2	2	1	1	3	2	3	0	0
Emergent Marshes	3	3	1	3	3	3	2	1	2	2	2	0	0
Sand/Shell Bottom	3	1	0	1	2	1	2	2	3	1	0	0	0
Soft Bottom	3	1	0	1	2	1	2	2	3	1	0	0	0
Hardbottom	3	1	1	2	2	2	2	2	3	1	2	1	1
Oyster Bars	3	2	3	2	2	3	2	2	3	2	3	0	1
Pelagic	2	1	3	0	1	2	2	2	3	3	3	3	3
<b>Nearshore</b>													
Seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0
Mangroves	0	0	0	0	0	0	0	0	0	0	0	0	0
Benthic Algae	0	0	0	0	0	0	0	0	0	0	0	0	1
Drifting Algae	0	0	0	0	0	0	0	0	0	0	0	0	0
Sand/Shell Bottom	0	0	0	0	0	0	0	0	0	0	0	0	0
Soft Bottom	0	0	0	0	0	0	0	0	0	0	0	0	0
Hardbottom	0	0	0	0	0	0	0	0	0	0	0	0	1
Banks/Shoals	0	0	0	0	0	0	0	0	0	0	0	0	0
Reefs	0	0	0	0	0	0	0	0	0	0	0	0	1
Pelagic	0	0	0	0	0	0	0	0	0	0	0	0	3

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 8</b>														
<b>Estuarine</b>														
Seagrasses	3	1	1	3	3	2	3	3	0	3	2	0	0	
Mangroves	3	3	1	3	2	2	1	1	0	2	2	0	0	
Benthic Algae	3	1	1	3	2	3	2	2	0	2	3	0	1	
Drifting Algae	3	1	1	0	2	2	1	1	0	2	3	0	0	
Emergent Marshes	3	3	1	3	3	3	2	1	0	2	2	0	0	
Sand/Shell Bottom	3	1	0	1	2	1	2	2	0	1	0	0	0	
Soft Bottom	3	1	0	1	2	1	2	2	0	1	0	0	0	
Hardbottom	3	1	1	2	2	2	2	2	0	1	2	0	1	
Oyster Bars	3	2	3	2	2	3	2	2	0	2	3	0	1	
Pelagic	2	1	3	0	1	2	2	2	0	3	3	0	3	
<b>Nearshore</b>														
Seagrasses	6	0	0	0	6	0	0	0	2	0	0	0	0	
Mangroves	6	0	0	0	4	0	0	0	0	0	0	0	0	
Benthic Algae	6	0	0	0	4	0	0	0	1	0	0	0	1	
Drifting Algae	6	0	0	0	4	0	0	0	1	0	0	0	0	
Sand/Shell Bottom	6	0	0	0	2	0	0	0	0	0	0	0	0	
Soft Bottom	6	0	0	0	2	0	0	0	0	0	0	0	0	
Hardbottom	6	0	0	0	4	0	0	0	2	0	0	0	1	
Banks/Shoals	6	0	0	0	4	0	0	0	1	0	0	0	0	
Reefs	6	0	0	0	6	0	0	0	3	0	0	0	1	
Pelagic	6	0	0	0	0	0	0	0	3	0	0	0	3	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality					Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms
<b>Zone 9</b>													
<b>Estuarine</b>													
Seagrasses	3	1	0	3	0	2	3	3	0	3	0	0	0
Mangroves	3	3	0	3	0	2	1	1	0	2	0	0	0
Benthic Algae	3	1	0	3	0	3	2	2	0	2	0	0	1
Drifting Algae	3	1	0	0	0	2	1	1	0	2	0	0	0
Emergent Marshes	3	3	0	3	0	3	2	1	0	2	0	0	0
Sand/Shell Bottom	3	1	0	1	0	1	2	2	0	1	0	0	0
Soft Bottom	3	1	0	1	0	1	2	2	0	1	0	0	0
Hardbottom	3	1	0	2	0	2	2	2	0	1	0	0	1
Oyster Bars	3	2	0	2	0	3	2	2	0	2	0	0	1
Pelagic	2	1	0	0	0	2	2	2	0	3	0	0	3
<b>Nearshore</b>													
Seagrasses	3	0	0	0	6	0	0	0	2	0	0	0	0
Mangroves	3	0	0	0	4	0	0	0	0	0	0	0	0
Benthic Algae	3	0	0	0	4	0	0	0	1	0	0	0	1
Drifting Algae	3	0	0	0	4	0	0	0	1	0	0	0	0
Sand/Shell Bottom	3	0	0	0	2	0	0	0	0	0	0	0	0
Soft Bottom	3	0	0	0	2	0	0	0	0	0	0	0	0
Hardbottom	3	0	0	0	4	0	0	0	2	0	0	0	1
Banks/Shoals	3	0	0	0	4	0	0	0	1	0	0	0	0
Reefs	3	0	0	0	6	0	0	0	3	0	0	0	1
Pelagic	3	0	0	0	0	0	0	0	3	0	0	0	3

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 10</b>														
<b>Estuarine</b>														
Seagrasses	3	1	1	3	6	2	3	3	3	3	2	0	0	
Mangroves	3	3	1	3	4	2	1	1	2	2	2	0	0	
Benthic Algae	3	1	1	3	4	3	2	2	2	2	3	0	1	
Drifting Algae	3	1	1	0	4	2	1	1	3	2	3	0	0	
Emergent Marshes	3	3	1	3	6	3	2	1	2	2	2	0	0	
Sand/Shell Bottom	3	1	0	1	4	1	2	2	3	1	0	0	0	
Soft Bottom	3	1	0	1	4	1	2	2	3	1	0	0	0	
Hardbottom	3	1	1	2	4	2	2	2	3	1	2	0	1	
Oyster Bars	3	2	3	2	4	3	2	2	3	2	3	0	1	
Pelagic	2	1	3	0	2	2	2	2	3	3	3	0	3	
<b>Nearshore</b>														
Seagrasses	6	2	0	3	9	0	0	0	3	0	0	0	0	
Mangroves	6	3	0	3	6	0	0	0	2	0	0	0	0	
Benthic Algae	6	1	0	3	6	0	0	0	2	0	0	0	1	
Drifting Algae	6	1	0	0	6	0	0	0	3	0	0	0	0	
Sand/Shell Bottom	6	3	0	1	3	0	0	0	0	0	0	0	0	
Soft Bottom	6	3	0	1	3	0	0	0	0	0	0	0	0	
Hardbottom	6	3	0	2	6	0	0	0	2	0	0	0	1	
Banks/Shoals	6	0	0	0	6	0	0	0	1	0	0	0	0	
Reefs	6	3	0	2	9	0	0	0	3	0	0	0	1	
Pelagic	6	3	0	3	0	0	0	0	3	0	0	0	3	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 11</b>														
<b>Estuarine</b>														
Seagrasses	6	1	1	3	6	2	3	3	3	3	2	0	0	
Mangroves	6	3	1	3	4	2	1	1	2	2	2	0	0	
Benthic Algae	6	1	1	3	4	3	2	2	2	2	3	0	0	
Drifting Algae	6	1	1	0	4	2	1	1	3	2	3	0	0	
Emergent Marshes	6	3	1	3	6	3	2	1	2	2	2	0	0	
Sand/Shell Bottom	6	1	0	1	4	1	2	2	3	1	0	0	0	
Soft Bottom	6	1	0	1	4	1	2	2	3	1	0	0	0	
Hardbottom	6	1	1	2	4	2	2	2	3	1	2	0	0	
Oyster Bars	6	2	3	2	4	3	2	2	3	2	3	0	0	
Pelagic	4	1	3	0	2	2	2	2	3	3	3	0	0	
<b>Nearshore</b>														
Seagrasses	6	0	0	6	12	0	0	0	6	0	0	0	0	
Mangroves	6	0	0	6	8	0	0	0	4	0	0	0	0	
Benthic Algae	6	0	0	6	8	0	0	0	4	0	0	0	0	
Drifting Algae	6	0	0	0	8	0	0	0	6	0	0	0	0	
Sand/Shell Bottom	6	0	0	2	4	0	0	0	0	0	0	0	0	
Soft Bottom	6	0	0	2	4	0	0	0	0	0	0	0	0	
Hardbottom	6	0	0	4	8	0	0	0	6	0	0	0	0	
Banks/Shoals	6	0	0	0	8	0	0	0	3	0	0	0	0	
Reefs	6	0	0	4	12	0	0	0	9	0	0	0	0	
Pelagic	6	0	0	6	0	0	0	0	9	0	0	0	0	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 12</b>														
<b>Estuarine</b>														
Seagrasses	3	1	1	3	3	2	3	3	3	3	2	0	0	
Mangroves	3	3	1	3	2	2	1	1	2	2	2	0	0	
Benthic Algae	3	1	1	3	2	3	2	2	2	2	3	0	0	
Drifting Algae	3	1	1	0	2	2	1	1	3	2	3	0	0	
Emergent Marshes	3	3	1	3	3	3	2	1	2	2	2	0	0	
Sand/Shell Bottom	3	1	0	1	2	1	2	2	3	1	0	0	0	
Soft Bottom	3	1	0	1	2	1	2	2	3	1	0	0	0	
Hardbottom	3	1	1	2	2	2	2	2	3	1	2	0	0	
Oyster Bars	3	2	3	2	2	3	2	2	3	2	3	0	0	
Pelagic	2	1	3	0	1	2	2	2	3	3	3	0	0	
<b>Nearshore</b>														
Seagrasses	3	0	0	0	3	0	0	0	2	0	0	0	0	
Mangroves	3	0	0	0	2	0	0	0	0	0	0	0	0	
Benthic Algae	3	0	0	0	2	0	0	0	1	0	0	0	0	
Drifting Algae	3	0	0	0	2	0	0	0	1	0	0	0	0	
Sand/Shell Bottom	3	0	0	0	1	0	0	0	0	0	0	0	0	
Soft Bottom	3	0	0	0	1	0	0	0	0	0	0	0	0	
Hardbottom	3	0	0	0	2	0	0	0	2	0	0	0	0	
Banks/Shoals	3	0	0	0	2	0	0	0	1	0	0	0	0	
Reefs	3	0	0	0	3	0	0	0	3	0	0	0	0	
Pelagic	3	0	0	0	0	0	0	0	3	0	0	0	0	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 13</b>														
<b>Estuarine</b>														
Seagrasses	3	1	0	6	3	0	3	3	6	3	2	1	0	
Mangroves	3	3	0	6	2	0	1	1	4	2	2	0	0	
Benthic Algae	3	1	0	6	2	0	2	2	4	2	3	3	0	
Drifting Algae	3	1	0	0	2	0	1	1	6	2	3	0	0	
Emergent Marshes	3	3	0	6	3	0	2	1	6	2	2	0	0	
Sand/Shell Bottom	3	1	0	2	2	0	2	2	6	1	0	0	0	
Soft Bottom	3	1	0	2	2	0	2	2	6	1	0	0	0	
Hardbottom	3	1	0	4	2	0	2	2	6	1	2	1	0	
Oyster Bars	3	2	0	4	2	0	2	2	6	2	3	0	0	
Pelagic	2	1	0	0	1	0	2	2	6	3	3	3	0	
<b>Nearshore</b>														
Seagrasses	6	0	0	6	9	0	0	0	6	0	0	2	0	
Mangroves	6	0	0	6	6	0	0	0	4	0	0	0	0	
Benthic Algae	6	0	0	6	6	0	0	0	4	0	0	6	0	
Drifting Algae	6	0	0	0	6	0	0	0	6	0	0	0	0	
Sand/Shell Bottom	6	0	0	2	3	0	0	0	0	0	0	2	0	
Soft Bottom	6	0	0	2	3	0	0	0	0	0	0	4	0	
Hardbottom	6	0	0	4	6	0	0	0	6	0	0	2	0	
Banks/Shoals	6	0	0	0	6	0	0	0	3	0	0	2	0	
Reefs	6	0	0	4	9	0	0	0	9	0	0	6	0	
Pelagic	6	0	0	6	0	0	0	0	9	0	0	4	0	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 14</b>														
<b>Estuarine</b>														
Seagrasses	3	1	1	12	3	2	6	6	12	6	4	3	0	
Mangroves	3	3	1	12	2	2	2	2	8	4	4	0	0	
Benthic Algae	3	1	1	12	2	3	4	4	8	4	6	9	0	
Drifting Algae	3	1	1	0	2	2	2	2	12	4	6	0	0	
Emergent Marshes	3	3	1	12	3	3	4	2	8	4	4	0	0	
Sand/Shell Bottom	3	1	0	4	2	1	4	4	12	2	0	0	0	
Soft Bottom	3	1	0	4	2	1	4	4	12	2	0	0	0	
Hardbottom	3	1	1	8	2	2	4	4	12	2	4	3	0	
Oyster Bars	3	2	3	8	2	3	4	4	12	4	6	0	0	
Pelagic	2	1	3	0	1	2	4	4	12	6	6	9	0	
<b>Nearshore</b>														
Seagrasses	3	0	0	6	3	0	0	0	8	0	0	3	0	
Mangroves	3	0	0	6	2	0	0	0	4	0	0	0	0	
Benthic Algae	3	0	0	6	2	0	0	0	4	0	0	9	0	
Drifting Algae	3	0	0	0	2	0	0	0	6	0	0	0	0	
Sand/Shell Bottom	3	0	0	2	1	0	0	0	0	0	0	3	0	
Soft Bottom	3	0	0	2	1	0	0	0	0	0	0	6	0	
Hardbottom	3	0	0	4	2	0	0	0	8	0	0	3	0	
Banks/Shoals	3	0	0	0	2	0	0	0	4	0	0	3	0	
Reefs	3	0	0	4	3	0	0	0	12	0	0	9	0	
Pelagic	3	0	0	6	0	0	0	0	12	0	0	6	0	



**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 15</b>														
<b>Estuarine</b>														
Seagrasses	3	1	1	12	3	2	3	3	12	3	4	3	0	
Mangroves	3	3	1	12	2	2	1	1	8	2	4	0	0	
Benthic Algae	3	1	1	12	2	3	2	2	8	2	6	9	0	
Drifting Algae	3	1	1	0	2	2	1	1	12	2	6	0	0	
Emergent Marshes	3	3	1	12	3	3	2	1	8	2	4	0	0	
Sand/Shell Bottom	3	1	0	4	2	1	2	2	12	1	0	0	0	
Soft Bottom	3	1	0	4	2	1	2	2	12	1	0	0	0	
Hardbottom	3	1	1	8	2	2	2	2	12	1	4	3	0	
Oyster Bars	3	2	3	8	2	3	2	2	12	2	6	0	0	
Pelagic	2	1	3	0	1	2	2	2	12	3	6	9	0	
<b>Nearshore</b>														
Seagrasses	0	0	0	12	0	0	0	0	9	0	0	3	0	
Mangroves	0	0	0	12	0	0	0	0	6	0	0	0	0	
Benthic Algae	0	0	0	12	0	0	0	0	6	0	0	9	0	
Drifting Algae	0	0	0	0	0	0	0	0	9	0	0	0	0	
Sand/Shell Bottom	0	0	0	4	0	0	0	0	0	0	0	3	0	
Soft Bottom	0	0	0	4	0	0	0	0	0	0	0	6	0	
Hardbottom	0	0	0	8	0	0	0	0	8	0	0	3	0	
Banks/Shoals	0	0	0	0	0	0	0	0	4	0	0	3	0	
Reefs	0	0	0	8	0	0	0	0	12	0	0	9	0	
Pelagic	0	0	0	12	0	0	0	0	12	0	0	6	0	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 16</b>														
<b>Estuarine</b>														
Seagrasses	3	1	1	9	3	2	3	3	9	3	2	3	0	
Mangroves	3	3	1	9	2	2	1	1	6	2	2	0	0	
Benthic Algae	3	1	1	9	2	3	2	2	6	2	3	9	0	
Drifting Algae	3	1	1	0	2	2	1	1	9	2	3	0	0	
Emergent Marshes	3	3	1	9	3	3	2	1	6	2	2	0	0	
Sand/Shell Bottom	3	1	0	3	2	1	2	2	9	1	0	0	0	
Soft Bottom	3	1	0	3	2	1	2	2	9	1	0	0	0	
Hardbottom	3	1	1	6	2	2	2	2	9	1	2	3	0	
Oyster Bars	3	2	3	6	2	3	2	2	9	2	3	0	0	
Pelagic	2	1	3	0	1	2	2	2	9	3	3	9	0	
<b>Nearshore</b>														
Seagrasses	3	0	0	9	3	0	0	0	9	0	0	3	0	
Mangroves	3	0	0	9	2	0	0	0	6	0	0	0	0	
Benthic Algae	3	0	0	9	2	0	0	0	6	0	0	9	0	
Drifting Algae	3	0	0	0	2	0	0	0	9	0	0	0	0	
Sand/Shell Bottom	3	0	0	3	1	0	0	0	0	0	0	3	0	
Soft Bottom	3	0	0	3	1	0	0	0	0	0	0	6	0	
Hardbottom	3	0	0	6	2	0	0	0	6	0	0	3	0	
Banks/Shoals	3	0	0	0	2	0	0	0	3	0	0	3	0	
Reefs	3	0	0	6	3	0	0	0	9	0	0	9	0	
Pelagic	3	0	0	9	0	0	0	0	9	0	0	6	0	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality					Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms
<b>Zone 17</b>													
<b>Estuarine</b>													
Seagrasses	9	1	0	9	12	2	3	3	9	3	4	4	0
Mangroves	9	3	0	9	8	2	1	1	6	2	4	0	0
Benthic Algae	9	1	0	9	8	3	2	2	6	2	6	12	0
Drifting Algae	9	1	0	0	8	2	1	1	9	2	6	0	0
Emergent Marshes	9	3	0	9	12	3	2	1	6	2	4	0	0
Sand/Shell Bottom	9	1	0	3	8	1	2	2	9	1	0	0	0
Soft Bottom	9	1	0	3	8	1	2	2	9	1	0	0	0
Hardbottom	9	1	0	6	8	2	2	2	9	1	4	4	0
Oyster Bars	9	2	0	6	8	3	2	2	9	2	6	0	0
Pelagic	6	1	0	0	4	2	2	2	9	3	6	12	0
<b>Nearshore</b>													
Seagrasses	9	0	0	6	12	0	0	0	6	0	0	1	0
Mangroves	9	0	0	6	8	0	0	0	4	0	0	0	0
Benthic Algae	9	0	0	6	8	0	0	0	4	0	0	3	0
Drifting Algae	9	0	0	0	8	0	0	0	6	0	0	0	0
Sand/Shell Bottom	9	0	0	2	4	0	0	0	0	0	0	1	0
Soft Bottom	9	0	0	2	4	0	0	0	0	0	0	2	0
Hardbottom	9	0	0	6	8	0	0	0	6	0	0	1	0
Banks/Shoals	9	0	0	0	8	0	0	0	3	0	0	1	0
Reefs	9	0	0	4	12	0	0	0	9	0	0	3	0
Pelagic	9	0	0	6	0	0	0	0	9	0	0	2	0

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 18</b>														
<b>Estuarine</b>														
Seagrasses	12	2	1	3	12	2	12	12	3	12	8	1	0	
Mangroves	12	6	1	3	8	2	4	8	2	8	8	0	0	
Benthic Algae	12	2	1	3	8	3	8	8	2	8	12	3	0	
Drifting Algae	12	2	1	0	8	2	4	4	3	8	12	0	0	
Emergent Marshes	12	6	1	3	12	3	8	4	2	8	8	0	0	
Sand/Shell Bottom	12	2	0	1	8	1	8	8	3	4	0	0	0	
Soft Bottom	12	2	0	1	8	1	8	8	3	4	0	0	0	
Hardbottom	12	2	1	2	8	2	8	8	3	4	8	1	0	
Oyster Bars	12	4	3	2	8	3	8	8	3	8	12	0	0	
Pelagic	4	2	3	0	4	2	8	8	3	12	12	3	0	
<b>Nearshore</b>														
Seagrasses	9	0	0	3	12	0	0	0	3	0	0	0	0	
Mangroves	9	0	0	3	8	0	0	0	2	0	0	0	0	
Benthic Algae	9	0	0	3	8	0	0	0	2	0	0	0	0	
Drifting Algae	9	0	0	0	8	0	0	0	3	0	0	0	0	
Sand/Shell Bottom	9	0	0	1	4	0	0	0	0	0	0	0	0	
Soft Bottom	9	0	0	1	4	0	0	0	0	0	0	0	0	
Hardbottom	9	0	0	2	8	0	0	0	2	0	0	0	0	
Banks/Shoals	9	0	0	0	8	0	0	0	1	0	0	0	0	
Reefs	9	0	0	2	12	0	0	0	3	0	0	0	0	
Pelagic	9	0	0	3	0	0	0	0	3	0	0	0	0	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 19</b>														
<b>Estuarine</b>														
Seagrasses	3	1	1	3	3	2	3	3	3	3	2	0	0	
Mangroves	3	3	1	3	2	2	1	1	2	2	2	0	0	
Benthic Algae	3	1	1	3	2	3	2	2	2	2	3	0	0	
Drifting Algae	3	1	1	0	2	2	1	1	3	2	3	0	0	
Emergent Marshes	3	3	1	3	3	3	2	1	2	2	2	0	0	
Sand/Shell Bottom	3	1	0	1	2	1	2	2	3	1	0	0	0	
Soft Bottom	3	1	0	1	2	1	2	2	3	1	0	0	0	
Hardbottom	3	1	1	2	2	2	2	2	3	1	2	0	0	
Oyster Bars	3	2	3	2	2	3	2	2	3	2	3	0	0	
Pelagic	2	1	3	0	1	2	2	2	3	3	3	0	0	
<b>Nearshore</b>														
Seagrasses	9	0	0	3	12	0	0	0	3	0	0	0	0	
Mangroves	9	0	0	3	8	0	0	0	2	0	0	0	0	
Benthic Algae	9	0	0	3	8	0	0	0	2	0	0	0	0	
Drifting Algae	9	0	0	0	8	0	0	0	3	0	0	0	0	
Sand/Shell Bottom	9	0	0	1	4	0	0	0	0	0	0	0	0	
Soft Bottom	9	0	0	1	4	0	0	0	0	0	0	0	0	
Hardbottom	9	0	0	2	8	0	0	0	2	0	0	0	0	
Banks/Shoals	9	0	0	0	8	0	0	0	1	0	0	0	0	
Reefs	9	0	0	2	12	0	0	0	3	0	0	0	0	
Pelagic	9	0	0	3	0	0	0	0	3	0	0	0	0	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality						Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms	
<b>Zone 20</b>														
<b>Estuarine</b>														
Seagrasses	3	1	1	0	3	2	3	3	2	3	2	0	0	
Mangroves	3	3	1	0	2	2	1	1	0	2	2	0	0	
Benthic Algae	3	1	1	0	2	3	2	2	1	2	3	0	0	
Drifting Algae	3	1	1	0	2	2	1	1	1	2	3	0	0	
Emergent Marshes	3	3	1	0	3	3	2	1	2	2	2	0	0	
Sand/Shell Bottom	3	1	0	0	2	1	2	2	1	1	0	0	0	
Soft Bottom	3	1	0	0	2	1	2	2	1	1	0	0	0	
Hardbottom	3	1	1	0	2	2	2	2	1	1	2	0	0	
Oyster Bars	3	2	3	0	2	3	2	2	1	2	3	0	0	
Pelagic	2	1	3	0	1	2	2	2	0	3	3	0	0	
<b>Nearshore</b>														
Seagrasses	12	0	0	3	12	0	0	0	3	0	0	0	0	
Mangroves	12	0	0	3	8	0	0	0	2	0	0	0	0	
Benthic Algae	12	0	0	3	8	0	0	0	2	0	0	0	0	
Drifting Algae	12	0	0	0	8	0	0	0	3	0	0	0	0	
Sand/Shell Bottom	12	0	0	1	4	0	0	0	0	0	0	0	0	
Soft Bottom	12	0	0	1	4	0	0	0	0	0	0	0	0	
Hardbottom	12	0	0	2	8	0	0	0	2	0	0	0	0	
Banks/Shoals	12	0	0	0	8	0	0	0	1	0	0	0	0	
Reefs	12	0	0	2	12	0	0	0	3	0	0	0	0	
Pelagic	12	0	0	3	0	0	0	0	3	0	0	0	0	

**NON-FISHING EFFECT SCORES, CONTINUED**

	Physical						Water Quality					Biological	
	Dredge and Fill	Shoreline Hardening	Impingement/Entrainment/Thermal	Structural Shading	Boating Impacts (propellar scarring, turbidity, groundings)	Altered Freshwater Inflow	Point Source Pollution	Non-Point Source Pollution	Oil/Gas Operations	Industrial Spills	Toxic Chemical Releases (wood preservatives)	Hypoxia	Harmful Algal Blooms
<b>Zone 21</b>													
<b>Estuarine</b>													
Seagrasses	3	1	0	0	3	2	3	3	0	3	0	0	0
Mangroves	3	3	0	0	2	2	1	1	0	2	0	0	0
Benthic Algae	3	1	0	0	2	3	2	2	0	2	0	0	0
Drifting Algae	3	1	0	0	2	2	1	1	0	2	0	0	0
Emergent Marshes	3	3	0	0	3	3	2	1	0	2	0	0	0
Sand/Shell Bottom	3	1	0	0	2	1	2	2	0	1	0	0	0
Soft Bottom	3	1	0	0	2	1	2	2	0	1	0	0	0
Hardbottom	3	1	0	0	2	2	2	2	0	1	0	0	0
Oyster Bars	3	2	0	0	2	3	2	2	0	2	0	0	0
Pelagic	2	1	0	0	1	2	2	2	0	3	0	0	0
<b>Nearshore</b>													
Seagrasses	6	0	0	3	0	0	0	0	3	0	0	0	0
Mangroves	6	0	0	3	0	0	0	0	2	0	0	0	0
Benthic Algae	6	0	0	3	0	0	0	0	2	0	0	0	0
Drifting Algae	6	0	0	0	0	0	0	0	3	0	0	0	0
Sand/Shell Bottom	6	0	0	1	0	0	0	0	0	0	0	0	0
Soft Bottom	6	0	0	1	0	0	0	0	0	0	0	0	0
Hardbottom	6	0	0	2	0	0	0	0	2	0	0	0	0
Banks/Shoals	6	0	0	0	0	0	0	0	1	0	0	0	0
Reefs	6	0	0	2	0	0	0	0	3	0	0	0	0
Pelagic	6	0	0	3	0	0	0	0	3	0	0	0	0