

Post stratification of GRSC estimates by depth and state

This document is meant to supplement the “Post-stratification SSC March 2022.pptx” presentation.

Tables 1 and 2 contain the detailed estimates by subregion, depth, and state for the uncharacterized bottom habitat of the original Great Red Snapper Count population estimates.

Table 1. Post-stratification results for the Uncharacterized Bottom (UCB) habitats of Texas and Louisiana. TX is divided into a North(N), Central(C), and Southern(S) subregions.

<b>Texas</b>				
Area	Depth	Class	Estimate	SE
All	All	All	<b>12,253,661</b>	5,055,396
Area	Depth		Estimate	
All	10-25m	All	7,485,983	3,815,276
All	25-40m	All	888,135	498,395
All	40-100m	All	3,762,447	3,278,713
All	>100	All	117,097	48,391
Subregion and depth			<b>12,253,662</b>	
Area	Depth	Class	Estimate	SE
N	10-25m	All	2,943,323	2,516,469
C	10-25m	All	3,159,882	2,670,344
S	10-25m	All	1,382,778	1,045,455
N	25-40m	All	321,130	222,029
C	25-40m	All	222,142	167,189
S	25-40m	All	344,863	413,700
N	40-100m	All	751,009	850,955
C	40-100m	All	2,584,843	3,159,976
S	40-100m	All	426,595	200,956
All	>100	All	117,097	48,391
Total			<b>12,253,661</b>	
<b>Louisiana</b>				
Area	Depth	Class	Estimate	SE
All	All	All	<b>5,869,365</b>	3,581,219
Area	Depth	Class	Estimate	
All	10-25m	All	-	
All	25-40m	All	2,161,842	1,705,415
All	40-100m	All	3,242,549	3,138,807
All	>100	All	464,974	254,133
Total			<b>5,869,365</b>	

Table 2. Post-stratification results for the Uncharacterized Bottom (UCB) habitats of MS/AL and FL.

<b>Mississippi/Alabama</b>				
Area	Depth	Class	Estimate	SE
All	All	All	<b>2,271,625</b>	1,153,936
<b>Florida</b>				
Area	Depth	Class	Estimate	SE
All	All	All	<b>46,838,220</b>	10,224,320
Area	Depth	Class	Estimate	SE
Panhandle	10-25m	1	-	-
Panhandle	10-25m	2	-	-
Panhandle	10-25m	3	-	-
Panhandle	25-40m	1	-	-
Panhandle	25-40m	2	<b>2,301,568</b>	2,301,568
Panhandle	25-40m	3	<b>268,416</b>	251,301
Panhandle	40-100m	1	<b>92,417</b>	92,417
Panhandle	40-100m	2	-	-
Panhandle	40-100m	3	-	-
Panhandle	>100	1	-	-
Panhandle	>100	2	<b>19,142</b>	19,142
Panhandle	>100	3	-	-
Northwest	10-25m	1	<b>6,412,407</b>	4,025,926
Northwest	10-25m	2	-	-
Northwest	10-25m	3	<b>583,461</b>	305,541
Northwest	25-40m	1	<b>202,757</b>	202,757
Northwest	25-40m	2	<b>6,630,504</b>	3,687,995
Northwest	25-40m	3	<b>10,148,328</b>	2,889,062
Northwest	40-100m	1	<b>111,470</b>	111,470
Northwest	40-100m	2	<b>6,438,158</b>	5,327,510
Northwest	40-100m	3	<b>5,635,656</b>	4,529,184
Northwest	>100	1	-	-
Northwest	>100	2	-	-
Northwest	>100	3	-	-
Southwest	10-25m	1	-	-
Southwest	10-25m	2	-	-
Southwest	10-25m	3	-	-
Southwest	25-40m	1	<b>1,275,159</b>	1,044,628
Southwest	25-40m	2	<b>791,136</b>	527,556
Southwest	25-40m	3	<b>129,042</b>	94,631
Southwest	40-100m	1	<b>5,798,601</b>	4,175,470
Southwest	40-100m	2	-	-
Southwest	40-100m	3	-	-
Southwest	>100	1	-	-
Southwest	>100	2	-	-
Southwest	>100	3	-	-
<b>Total</b>			<b>46,838,222</b>	

Table 3. Number of age 2+ red snapper and coefficient of variation (CV) estimated following the depth-based post-stratification (original 0-40 meter depth strata split into 10-25 and 25-40) of the Great Red Snapper Count data by region and habitat type. CVs for total estimates were not re-calculated during post-stratification analysis.

<b>State/Region</b>	<b>Habitat Type</b>	<b>Number</b>	<b>CV(%)</b>
TX	Natural	7,037,443	36
	Artificial	417,761	21
	Uncharacterized Bottom	14,569,830	46
	<b>Total</b>	<b>22,025,035</b>	<b>32</b>
LA	Natural	3,852,652	43
	Artificial	3,849,325	15
	Uncharacterized Bottom	9,729,387	59
	<b>Total</b>	<b>17,431,364</b>	<b>34</b>
AL/MS	Natural	3,751,988	20
	Artificial	1,509,625	11
	Uncharacterized Bottom	3,199,472	51
	<b>Total</b>	<b>8,461,085</b>	<b>21</b>
FL	Natural & Uncharacterized Bottom	48,124,414	22
	Artificial	127,560	17
	<b>Total</b>	<b>48,251,974</b>	<b>22</b>
ALL	Pipeline	507,661	43
<b>Gulf of Mexico</b>		<b>96,677,118</b>	<b>14</b>