

## PSA Other attributes w/o *r* – RN

| Species                             | FishLife prediction level | Mean productivity | LCI Productivity | UCI Productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-------------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Acanthostracion quadricornis</i> | Family                    | 2.30              | 1.89             | 2.44             | 0.18            | 2.50                | 2.50               | 2.50               | 0.00              | 1.66               | 1.60              | 1.87              | 0.09             | Low                         |
| <i>Acanthurus bahianus</i>          | Species                   | 2.42              | 2.11             | 2.56             | 0.17            | 2.57                | 2.57               | 2.57               | 0.00              | 1.68               | 1.63              | 1.81              | 0.07             | Low                         |
| <i>Acanthurus chirurgus</i>         | Species                   | 2.44              | 2.11             | 2.56             | 0.17            | 2.57                | 2.57               | 2.57               | 0.00              | 1.67               | 1.63              | 1.81              | 0.06             | Low                         |
| <i>Achirus lineatus</i>             | Genus                     | 2.22              | 1.78             | 2.33             | 0.16            | 2.29                | 2.29               | 2.29               | 0.00              | 1.51               | 1.45              | 1.77              | 0.09             | Low                         |
| <i>Albula vulpes</i>                | Species                   | 2.12              | 1.78             | 2.33             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.64               | 1.53              | 1.84              | 0.11             | Low                         |
| <i>Alectis ciliaris</i>             | Genus                     | 2.06              | 1.67             | 2.22             | 0.18            | 2.43                | 2.43               | 2.43               | 0.00              | 1.72               | 1.63              | 1.95              | 0.10             | Low                         |
| <i>Alphestes afer</i>               | Family                    | 2.21              | 1.78             | 2.44             | 0.19            | 2.75                | 2.75               | 2.75               | 0.00              | 1.93               | 1.84              | 2.13              | 0.08             | Moderate                    |
| <i>Aluterus monoceros</i>           | Family                    | 2.03              | 1.67             | 2.11             | 0.15            | 2.43                | 2.43               | 2.43               | 0.00              | 1.73               | 1.68              | 1.95              | 0.09             | Low                         |
| <i>Anisotremus virginicus</i>       | Genus                     | 2.09              | 1.78             | 2.33             | 0.19            | 2.86                | 2.86               | 2.86               | 0.00              | 2.07               | 1.97              | 2.22              | 0.09             | Moderate                    |
| <i>Archosargus rhomboidalis</i>     | Species                   | 2.44              | 2.44             | 2.44             | 0.04            | 2.86                | 2.86               | 2.86               | 0.00              | 1.94               | 1.94              | 1.94              | 0.02             | Moderate                    |
| <i>Aspistor luniscutis</i>          | Family                    | 1.98              | 1.67             | 2.22             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.72               | 1.58              | 1.92              | 0.12             | Low                         |
| <i>Auxis thazard</i>                | Species                   | 2.16              | 1.78             | 2.22             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.83               | 1.80              | 2.03              | 0.07             | Moderate                    |
| <i>Bagre bagre</i>                  | Species                   | 2.08              | 1.78             | 2.33             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.66               | 1.53              | 1.84              | 0.10             | Low                         |
| <i>Bagre marinus</i>                | Genus                     | 1.97              | 1.67             | 2.22             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.72               | 1.58              | 1.92              | 0.12             | Low                         |
| <i>Balistes capriscus</i>           | Species                   | 2.07              | 1.67             | 2.11             | 0.10            | 2.38                | 2.38               | 2.38               | 0.00              | 1.66               | 1.64              | 1.92              | 0.06             | Low                         |
| <i>Brachygenys chrysargyreum</i>    | Genus                     | 2.13              | 1.78             | 2.33             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.85               | 1.76              | 2.03              | 0.09             | Moderate                    |
| <i>Calamus calamus</i>              | Genus                     | 2.36              | 2.00             | 2.56             | 0.16            | 2.57                | 2.57               | 2.57               | 0.00              | 1.70               | 1.63              | 1.86              | 0.06             | Low                         |
| <i>Calamus penna</i>                | Genus                     | 2.25              | 1.89             | 2.44             | 0.16            | 2.57                | 2.57               | 2.57               | 0.00              | 1.75               | 1.67              | 1.92              | 0.07             | Low                         |
| <i>Calamus pennatula</i>            | Genus                     | 2.25              | 1.89             | 2.44             | 0.17            | 2.57                | 2.57               | 2.57               | 0.00              | 1.75               | 1.67              | 1.92              | 0.08             | Low                         |
| <i>Cantherhines pullus</i>          | Family                    | 2.25              | 1.89             | 2.33             | 0.16            | 2.43                | 2.43               | 2.43               | 0.00              | 1.62               | 1.58              | 1.81              | 0.08             | Low                         |
| <i>Caranx bartholomaei</i>          | Genus                     | 2.14              | 1.78             | 2.22             | 0.14            | 2.50                | 2.50               | 2.50               | 0.00              | 1.73               | 1.69              | 1.93              | 0.08             | Low                         |
| <i>Caranx crysos</i>                | Species                   | 2.11              | 1.67             | 2.22             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.75               | 1.69              | 2.01              | 0.08             | Low                         |
| <i>Caranx hippos</i>                | Species                   | 2.16              | 1.78             | 2.22             | 0.12            | 2.43                | 2.43               | 2.43               | 0.00              | 1.66               | 1.63              | 1.88              | 0.07             | Low                         |
| <i>Caranx latus</i>                 | Genus                     | 2.19              | 1.78             | 2.33             | 0.16            | 2.43                | 2.43               | 2.43               | 0.00              | 1.65               | 1.58              | 1.88              | 0.08             | Low                         |
| <i>Carcharhinus acronotus</i>       | Species                   | 1.64              | 1.56             | 1.89             | 0.11            | 2.25                | 2.25               | 2.25               | 0.00              | 1.85               | 1.67              | 1.91              | 0.08             | Moderate                    |
| <i>Carcharhinus limbatus</i>        | Species                   | 1.60              | 1.56             | 1.78             | 0.09            | 2.25                | 2.25               | 2.25               | 0.00              | 1.87               | 1.75              | 1.91              | 0.07             | Moderate                    |
| <i>Cathorops spixii</i>             | Genus                     | 2.21              | 1.89             | 2.44             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.59               | 1.48              | 1.77              | 0.10             | Low                         |
| <i>Centropomus parallelus</i>       | Genus                     | 2.19              | 1.78             | 2.33             | 0.17            | 2.50                | 2.50               | 2.50               | 0.00              | 1.71               | 1.64              | 1.93              | 0.09             | Low                         |
| <i>Centropomus undecimalis</i>      | Species                   | 2.23              | 1.89             | 2.33             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.69               | 1.64              | 1.87              | 0.08             | Low                         |
| <i>Cephalopholis fulva</i>          | Species                   | 2.27              | 1.89             | 2.44             | 0.15            | 2.75                | 2.75               | 2.75               | 0.00              | 1.90               | 1.84              | 2.07              | 0.06             | Moderate                    |
| <i>Chaetodipterus faber</i>         | Species                   | 2.15              | 1.78             | 2.33             | 0.19            | 2.57                | 2.57               | 2.57               | 0.00              | 1.79               | 1.71              | 1.99              | 0.09             | Low                         |

| Species                         | FishLife prediction level | Mean productivity | LCI Productivity | UCI Productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|---------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Chaetodon striatus</i>       | Genus                     | 2.28              | 1.89             | 2.33             | 0.12            | 2.57                | 2.57               | 2.57               | 0.00              | 1.73               | 1.71              | 1.92              | 0.06             | Low                         |
| <i>Chilomycterus spinosus</i>   | Family                    | 2.20              | 1.78             | 2.33             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.60               | 1.53              | 1.84              | 0.10             | Low                         |
| <i>Chloroscombrus chrysurus</i> | Species                   | 2.13              | 1.78             | 2.22             | 0.15            | 2.57                | 2.57               | 2.57               | 0.00              | 1.80               | 1.75              | 1.99              | 0.08             | Low                         |
| <i>Conodon nobilis</i>          | Family                    | 2.25              | 1.89             | 2.44             | 0.19            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.72              | 1.97              | 0.08             | Low                         |
| <i>Cynoscion jamaicensis</i>    | Species                   | 2.22              | 1.89             | 2.33             | 0.15            | 2.63                | 2.63               | 2.63               | 0.00              | 1.81               | 1.76              | 1.97              | 0.07             | Moderate                    |
| <i>Cynoscion leiarchus</i>      | Species                   | 2.29              | 1.89             | 2.44             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.78               | 1.72              | 1.97              | 0.07             | Low                         |
| <i>Cynoscion microlepidotus</i> | Species                   | 1.99              | 1.78             | 2.33             | 0.15            | 2.63                | 2.63               | 2.63               | 0.00              | 1.92               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Cynoscion virescens</i>      | Genus                     | 2.11              | 1.78             | 2.33             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.86               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Dactylopterus volitans</i>   | Family                    | 2.07              | 1.67             | 2.22             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.67               | 1.58              | 1.92              | 0.11             | Low                         |
| <i>Decapterus punctatus</i>     | Species                   | 2.39              | 2.00             | 2.44             | 0.13            | 2.50                | 2.50               | 2.50               | 0.00              | 1.62               | 1.60              | 1.80              | 0.06             | Low                         |
| <i>Decapterus tabl</i>          | Genus                     | 2.39              | 2.00             | 2.44             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.74               | 1.72              | 1.91              | 0.05             | Low                         |
| <i>Diapterus auratus</i>        | Genus                     | 2.50              | 2.11             | 2.56             | 0.13            | 2.57                | 2.57               | 2.57               | 0.00              | 1.65               | 1.63              | 1.81              | 0.05             | Low                         |
| <i>Diodon sp.</i>               | Family                    | 2.20              | 1.78             | 2.33             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.60               | 1.53              | 1.84              | 0.10             | Low                         |
| <i>Echeneis naucrates</i>       | Order                     | 2.14              | 1.78             | 2.33             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.63               | 1.53              | 1.84              | 0.11             | Low                         |
| <i>Echeneis neucratoides</i>    | Order                     | 2.14              | 1.78             | 2.33             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.63               | 1.53              | 1.84              | 0.11             | Low                         |
| <i>Elagatis bipinnulata</i>     | Species                   | 2.04              | 1.67             | 2.11             | 0.14            | 2.75                | 2.75               | 2.75               | 0.00              | 2.00               | 1.96              | 2.20              | 0.07             | Moderate                    |
| <i>Elops saurus</i>             | Species                   | 2.26              | 1.89             | 2.44             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.79               | 1.72              | 1.97              | 0.08             | Low                         |
| <i>Epinephelus adscensionis</i> | Species                   | 2.19              | 1.89             | 2.44             | 0.14            | 2.75                | 2.75               | 2.75               | 0.00              | 1.93               | 1.84              | 2.07              | 0.06             | Moderate                    |
| <i>Eugerres brasilianus</i>     | Species                   | 2.35              | 2.00             | 2.44             | 0.14            | 2.57                | 2.57               | 2.57               | 0.00              | 1.70               | 1.67              | 1.86              | 0.06             | Low                         |
| <i>Euthynnus alletteratus</i>   | Species                   | 1.99              | 1.67             | 2.22             | 0.16            | 2.50                | 2.50               | 2.50               | 0.00              | 1.81               | 1.69              | 2.01              | 0.09             | Moderate                    |
| <i>Fistularia petimba</i>       | Order                     | 1.96              | 1.56             | 2.11             | 0.19            | 2.43                | 2.43               | 2.43               | 0.00              | 1.77               | 1.68              | 2.03              | 0.12             | Low                         |
| <i>Fistularia tabacaria</i>     | Order                     | 1.97              | 1.56             | 2.11             | 0.19            | 2.43                | 2.43               | 2.43               | 0.00              | 1.77               | 1.68              | 2.03              | 0.12             | Low                         |
| <i>Genidens barbus</i>          | Species                   | 1.79              | 1.56             | 2.01             | 0.13            | 2.25                | 2.25               | 2.25               | 0.00              | 1.75               | 1.60              | 1.91              | 0.09             | Low                         |
| <i>Genidens machadoi</i>        | Genus                     | 1.98              | 1.67             | 2.33             | 0.17            | 2.38                | 2.38               | 2.38               | 0.00              | 1.72               | 1.53              | 1.92              | 0.10             | Low                         |
| <i>Genyatremus luteus</i>       | Family                    | 2.35              | 2.00             | 2.56             | 0.19            | 2.57                | 2.57               | 2.57               | 0.00              | 1.71               | 1.63              | 1.86              | 0.08             | Low                         |
| <i>Ginglymostoma cirratum</i>   | Species                   | 1.51              | 1.44             | 1.78             | 0.09            | 2.63                | 2.63               | 2.63               | 0.00              | 2.20               | 2.03              | 2.25              | 0.06             | High                        |
| <i>Gymnothorax moringa</i>      | Family                    | 1.91              | 1.67             | 2.22             | 0.17            | 2.43                | 2.43               | 2.43               | 0.00              | 1.80               | 1.63              | 1.95              | 0.10             | Moderate                    |
| <i>Gymnothorax vicinus</i>      | Family                    | 2.03              | 1.78             | 2.44             | 0.19            | 2.43                | 2.43               | 2.43               | 0.00              | 1.73               | 1.53              | 1.88              | 0.10             | Low                         |
| <i>Haemulon aurolineatum</i>    | Species                   | 2.42              | 2.00             | 2.56             | 0.14            | 2.75                | 2.75               | 2.75               | 0.00              | 1.85               | 1.81              | 2.02              | 0.05             | Moderate                    |
| <i>Haemulon melanurum</i>       | Species                   | 2.38              | 2.00             | 2.56             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.86               | 1.81              | 2.02              | 0.06             | Moderate                    |
| <i>Haemulon parra</i>           | Species                   | 2.26              | 1.89             | 2.44             | 0.17            | 2.75                | 2.75               | 2.75               | 0.00              | 1.91               | 1.84              | 2.07              | 0.07             | Moderate                    |
| <i>Haemulon plumierii</i>       | Species                   | 2.24              | 1.89             | 2.44             | 0.15            | 2.75                | 2.75               | 2.75               | 0.00              | 1.91               | 1.84              | 2.07              | 0.07             | Moderate                    |
| <i>Haemulon steindachneri</i>   | Genus                     | 2.13              | 1.78             | 2.33             | 0.18            | 2.75                | 2.75               | 2.75               | 0.00              | 1.96               | 1.87              | 2.13              | 0.09             | Moderate                    |

| Species                             | FishLife prediction level | Mean productivity | LCI Productivity | UCI Productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-------------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Harengula clupeola</i>           | Genus                     | 2.40              | 2.00             | 2.44             | 0.12            | 2.63                | 2.63               | 2.63               | 0.00              | 1.74               | 1.72              | 1.91              | 0.05             | Low                         |
| <i>Heteropriacanthus cruentatus</i> | Family                    | 2.21              | 1.78             | 2.33             | 0.17            | 2.43                | 2.43               | 2.43               | 0.00              | 1.64               | 1.58              | 1.88              | 0.09             | Low                         |
| <i>Holacanthus ciliaris</i>         | Family                    | 2.39              | 2.00             | 2.67             | 0.20            | 2.57                | 2.57               | 2.57               | 0.00              | 1.70               | 1.61              | 1.86              | 0.08             | Low                         |
| <i>Holocentrus adscensionis</i>     | Species                   | 2.32              | 1.89             | 2.33             | 0.08            | 2.50                | 2.50               | 2.50               | 0.00              | 1.65               | 1.64              | 1.87              | 0.04             | Low                         |
| <i>Hypanus marianae</i>             | Genus                     | 1.69              | 1.44             | 2.00             | 0.17            | 2.29                | 2.29               | 2.29               | 0.00              | 1.84               | 1.63              | 2.02              | 0.12             | Moderate                    |
| <i>Lactophrys trigonus</i>          | Family                    | 2.31              | 1.89             | 2.44             | 0.18            | 2.50                | 2.50               | 2.50               | 0.00              | 1.66               | 1.60              | 1.87              | 0.08             | Low                         |
| <i>Lagocephalus laevigatus</i>      | Genus                     | 2.17              | 1.78             | 2.22             | 0.12            | 2.38                | 2.38               | 2.38               | 0.00              | 1.61               | 1.58              | 1.84              | 0.07             | Low                         |
| <i>Larimus breviceps</i>            | Family                    | 2.19              | 1.78             | 2.33             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.82               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Luţjanus alexandrei</i>          | Genus                     | 2.13              | 1.89             | 2.44             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.85               | 1.72              | 1.97              | 0.08             | Moderate                    |
| <i>Luţjanus analis</i>              | Species                   | 1.98              | 1.78             | 2.22             | 0.12            | 2.75                | 2.75               | 2.75               | 0.00              | 2.03               | 1.92              | 2.13              | 0.06             | Moderate                    |
| <i>Luţjanus apodus</i>              | Species                   | 2.09              | 1.78             | 2.33             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.98               | 1.87              | 2.13              | 0.07             | Moderate                    |
| <i>Luţjanus jocu</i>                | Species                   | 2.04              | 1.78             | 2.33             | 0.12            | 2.75                | 2.75               | 2.75               | 0.00              | 2.00               | 1.87              | 2.13              | 0.06             | Moderate                    |
| <i>Luţjanus synagris</i>            | Species                   | 2.11              | 1.78             | 2.22             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.86               | 1.80              | 2.03              | 0.07             | Moderate                    |
| <i>Lycengraulis batesii</i>         | Genus                     | 2.26              | 1.89             | 2.33             | 0.14            | 2.50                | 2.50               | 2.50               | 0.00              | 1.68               | 1.64              | 1.87              | 0.07             | Low                         |
| <i>Lycengraulis grossidens</i>      | Species                   | 2.26              | 1.89             | 2.33             | 0.13            | 2.50                | 2.50               | 2.50               | 0.00              | 1.67               | 1.64              | 1.87              | 0.06             | Low                         |
| <i>Micropogonias furnieri</i>       | Species                   | 2.17              | 2.00             | 2.33             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.83               | 1.76              | 1.91              | 0.06             | Moderate                    |
| <i>Mugil curema</i>                 | Species                   | 2.36              | 2.00             | 2.56             | 0.17            | 2.75                | 2.75               | 2.75               | 0.00              | 1.87               | 1.81              | 2.02              | 0.06             | Moderate                    |
| <i>Mulloidichthys martinicus</i>    | Species                   | 2.39              | 2.00             | 2.44             | 0.12            | 2.63                | 2.63               | 2.63               | 0.00              | 1.74               | 1.72              | 1.91              | 0.05             | Low                         |
| <i>Mycteroperca bonaci</i>          | Species                   | 1.87              | 1.67             | 2.00             | 0.12            | 2.63                | 2.63               | 2.63               | 0.00              | 1.98               | 1.91              | 2.10              | 0.07             | Moderate                    |
| <i>Notarius grandicassis</i>        | Genus                     | 1.89              | 1.56             | 2.11             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.77               | 1.64              | 1.99              | 0.12             | Low                         |
| <i>Ocyurus chrysurus</i>            | Species                   | 2.10              | 1.78             | 2.22             | 0.15            | 2.88                | 2.88               | 2.88               | 0.00              | 2.09               | 2.03              | 2.24              | 0.07             | Moderate                    |
| <i>Oligoplites palometa</i>         | Family                    | 2.22              | 1.78             | 2.33             | 0.17            | 2.75                | 2.75               | 2.75               | 0.00              | 1.92               | 1.87              | 2.13              | 0.08             | Moderate                    |
| <i>Oligoplites saliens</i>          | Family                    | 2.23              | 1.78             | 2.33             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.92               | 1.87              | 2.13              | 0.07             | Moderate                    |
| <i>Opisthonema oglinum</i>          | Species                   | 2.49              | 2.11             | 2.56             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.71               | 1.68              | 1.85              | 0.05             | Low                         |
| <i>Orthopristis rubra</i>           | Species                   | 2.28              | 1.89             | 2.44             | 0.16            | 2.50                | 2.50               | 2.50               | 0.00              | 1.67               | 1.60              | 1.87              | 0.07             | Low                         |
| <i>Paralichthys brasiliensis</i>    | Genus                     | 2.07              | 1.67             | 2.22             | 0.16            | 2.43                | 2.43               | 2.43               | 0.00              | 1.71               | 1.63              | 1.95              | 0.09             | Low                         |
| <i>Polydactylus virginicus</i>      | Genus                     | 2.17              | 1.78             | 2.33             | 0.18            | 2.50                | 2.50               | 2.50               | 0.00              | 1.72               | 1.64              | 1.93              | 0.09             | Low                         |
| <i>Pomacanthus paru</i>             | Species                   | 2.27              | 2.00             | 2.56             | 0.17            | 2.71                | 2.71               | 2.71               | 0.00              | 1.87               | 1.77              | 1.98              | 0.06             | Moderate                    |
| <i>Priacanthus arenatus</i>         | Species                   | 2.28              | 1.89             | 2.33             | 0.12            | 2.50                | 2.50               | 2.50               | 0.00              | 1.67               | 1.64              | 1.87              | 0.06             | Low                         |
| <i>Prionotus punctatus</i>          | Species                   | 2.22              | 1.89             | 2.44             | 0.17            | 2.38                | 2.38               | 2.38               | 0.00              | 1.59               | 1.48              | 1.77              | 0.09             | Low                         |
| <i>Pseudobatos percellens</i>       | Genus                     | 1.81              | 1.56             | 2.11             | 0.14            | 2.43                | 2.43               | 2.43               | 0.00              | 1.86               | 1.68              | 2.03              | 0.09             | Moderate                    |
| <i>Pseudupeneus maculatus</i>       | Species                   | 2.30              | 1.89             | 2.33             | 0.10            | 2.50                | 2.50               | 2.50               | 0.00              | 1.66               | 1.64              | 1.87              | 0.05             | Low                         |
| <i>Rachycentron canadum</i>         | Species                   | 1.98              | 1.67             | 2.22             | 0.17            | 2.50                | 2.50               | 2.50               | 0.00              | 1.82               | 1.69              | 2.01              | 0.10             | Moderate                    |

| Species                           | FishLife prediction level | Mean productivity | LCI Productivity | UCI Productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Rhizoprionodon porosus</i>     | Species                   | 1.72              | 1.56             | 1.89             | 0.13            | 2.38                | 2.38               | 2.38               | 0.00              | 1.88               | 1.77              | 1.99              | 0.09             | Moderate                    |
| <i>Sciaedes proops</i>            | Species                   | 2.06              | 1.67             | 2.22             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.67               | 1.58              | 1.92              | 0.11             | Low                         |
| <i>Scomberomorus brasiliensis</i> | Species                   | 2.05              | 1.89             | 2.22             | 0.13            | 2.50                | 2.50               | 2.50               | 0.00              | 1.78               | 1.69              | 1.87              | 0.07             | Low                         |
| <i>Scomberomorus cavalla</i>      | Species                   | 1.89              | 1.78             | 2.00             | 0.11            | 2.50                | 2.50               | 2.50               | 0.00              | 1.87               | 1.80              | 1.93              | 0.07             | Moderate                    |
| <i>Scomberomorus regalis</i>      | Species                   | 1.90              | 1.67             | 2.22             | 0.14            | 2.50                | 2.50               | 2.50               | 0.00              | 1.86               | 1.69              | 2.01              | 0.08             | Moderate                    |
| <i>Scorpaena plumieri</i>         | Genus                     | 2.21              | 1.78             | 2.33             | 0.15            | 2.38                | 2.38               | 2.38               | 0.00              | 1.59               | 1.53              | 1.84              | 0.08             | Low                         |
| <i>Selar crumenophthalmus</i>     | Species                   | 2.19              | 1.78             | 2.22             | 0.11            | 2.50                | 2.50               | 2.50               | 0.00              | 1.71               | 1.69              | 1.93              | 0.06             | Low                         |
| <i>Selene brownii</i>             | Species                   | 2.27              | 1.89             | 2.33             | 0.13            | 2.71                | 2.71               | 2.71               | 0.00              | 1.87               | 1.84              | 2.04              | 0.06             | Moderate                    |
| <i>Selene setapinnis</i>          | Species                   | 2.16              | 1.78             | 2.22             | 0.13            | 2.71                | 2.71               | 2.71               | 0.00              | 1.91               | 1.88              | 2.11              | 0.06             | Moderate                    |
| <i>Selene vomer</i>               | Genus                     | 2.25              | 1.89             | 2.33             | 0.15            | 2.71                | 2.71               | 2.71               | 0.00              | 1.88               | 1.84              | 2.04              | 0.07             | Moderate                    |
| <i>Seriola rivoliana</i>          | Genus                     | 2.02              | 1.67             | 2.22             | 0.18            | 2.75                | 2.75               | 2.75               | 0.00              | 2.01               | 1.92              | 2.20              | 0.09             | Moderate                    |
| <i>Sparisoma amplum</i>           | Genus                     | 2.42              | 2.00             | 2.56             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.73               | 1.68              | 1.91              | 0.06             | Low                         |
| <i>Sparisoma axillare</i>         | Genus                     | 2.41              | 2.00             | 2.56             | 0.18            | 2.50                | 2.50               | 2.50               | 0.00              | 1.62               | 1.56              | 1.80              | 0.07             | Low                         |
| <i>Sparisoma frondosum</i>        | Genus                     | 2.42              | 2.00             | 2.56             | 0.17            | 2.50                | 2.50               | 2.50               | 0.00              | 1.62               | 1.56              | 1.80              | 0.07             | Low                         |
| <i>Sphyræna guachancho</i>        | Genus                     | 1.98              | 1.67             | 2.22             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.72               | 1.58              | 1.92              | 0.11             | Low                         |
| <i>Sphyrna lewini</i>             | Species                   | 1.47              | 1.44             | 1.56             | 0.05            | 2.50                | 2.50               | 2.50               | 0.00              | 2.14               | 2.08              | 2.16              | 0.03             | Moderate                    |
| <i>Syacium micrurum</i>           | Genus                     | 2.35              | 2.00             | 2.44             | 0.15            | 2.43                | 2.43               | 2.43               | 0.00              | 1.57               | 1.53              | 1.74              | 0.07             | Low                         |
| <i>Syacium papillosum</i>         | Genus                     | 2.36              | 2.00             | 2.44             | 0.15            | 2.29                | 2.29               | 2.29               | 0.00              | 1.44               | 1.40              | 1.63              | 0.08             | Low                         |
| <i>Synodus foetens</i>            | Genus                     | 2.26              | 1.89             | 2.33             | 0.14            | 2.50                | 2.50               | 2.50               | 0.00              | 1.68               | 1.64              | 1.87              | 0.07             | Low                         |
| <i>Synodus intermedius</i>        | Genus                     | 2.26              | 1.89             | 2.33             | 0.14            | 2.50                | 2.50               | 2.50               | 0.00              | 1.68               | 1.64              | 1.87              | 0.07             | Low                         |
| <i>Thalassophryne nattereri</i>   | Family                    | 2.28              | 1.89             | 2.44             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.56               | 1.48              | 1.77              | 0.09             | Low                         |
| <i>Trachinocephalus myops</i>     | Family                    | 2.37              | 2.00             | 2.44             | 0.14            | 2.38                | 2.38               | 2.38               | 0.00              | 1.52               | 1.48              | 1.70              | 0.07             | Low                         |
| <i>Trichiurus lepturus</i>        | Species                   | 1.80              | 1.67             | 2.00             | 0.08            | 2.57                | 2.57               | 2.57               | 0.00              | 1.98               | 1.86              | 2.06              | 0.05             | Moderate                    |
| <i>Ulaema lefroyi</i>             | Family                    | 2.36              | 2.00             | 2.44             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.63               | 1.60              | 1.80              | 0.07             | Low                         |
| <i>Uraspis secunda</i>            | Genus                     | 2.23              | 1.89             | 2.33             | 0.16            | 2.57                | 2.57               | 2.57               | 0.00              | 1.75               | 1.71              | 1.92              | 0.08             | Low                         |

## PSA Other attributes w/o *r* – PE

| Species                            | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|------------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Acanthurus bahianus</i>         | Species                   | 2.41              | 2.11             | 2.56             | 0.18            | 2.57                | 2.57               | 2.57               | 0.00              | 1.69               | 1.63              | 1.81              | 0.07             | Low                         |
| <i>Acanthurus chirurgus</i>        | Species                   | 2.43              | 2.11             | 2.56             | 0.17            | 2.57                | 2.57               | 2.57               | 0.00              | 1.68               | 1.63              | 1.81              | 0.06             | Low                         |
| <i>Acanthurus coeruleus</i>        | Species                   | 2.41              | 2.11             | 2.56             | 0.18            | 2.57                | 2.57               | 2.57               | 0.00              | 1.69               | 1.63              | 1.81              | 0.07             | Low                         |
| <i>Achirus lineatus</i>            | Genus                     | 2.23              | 1.88             | 2.33             | 0.16            | 2.29                | 2.29               | 2.29               | 0.00              | 1.51               | 1.45              | 1.70              | 0.09             | Low                         |
| <i>Aetobatus narinari</i>          | Family                    | 1.62              | 1.33             | 2.00             | 0.19            | 2.57                | 2.57               | 2.57               | 0.00              | 2.10               | 1.86              | 2.29              | 0.12             | Moderate                    |
| <i>Albula vulpes</i>               | Species                   | 2.13              | 1.78             | 2.33             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.64               | 1.53              | 1.84              | 0.10             | Low                         |
| <i>Alectis ciliaris</i>            | Genus                     | 2.06              | 1.67             | 2.22             | 0.18            | 2.43                | 2.43               | 2.43               | 0.00              | 1.72               | 1.63              | 1.95              | 0.11             | Low                         |
| <i>Alphestes afer</i>              | Family                    | 2.21              | 1.89             | 2.44             | 0.19            | 2.75                | 2.75               | 2.75               | 0.00              | 1.93               | 1.84              | 2.07              | 0.08             | Moderate                    |
| <i>Aluterus monoceros</i>          | Family                    | 2.03              | 1.67             | 2.11             | 0.15            | 2.43                | 2.43               | 2.43               | 0.00              | 1.73               | 1.68              | 1.95              | 0.09             | Low                         |
| <i>Anisotremus surinamensis</i>    | Genus                     | 1.98              | 1.67             | 2.22             | 0.19            | 2.86                | 2.86               | 2.86               | 0.00              | 2.12               | 2.01              | 2.29              | 0.09             | Moderate                    |
| <i>Anisotremus virginicus</i>      | Genus                     | 2.10              | 1.67             | 2.33             | 0.20            | 2.86                | 2.86               | 2.86               | 0.00              | 2.07               | 1.97              | 2.29              | 0.09             | Moderate                    |
| <i>Archosargus probatocephalus</i> | Species                   | 2.23              | 1.89             | 2.33             | 0.12            | 2.86                | 2.86               | 2.86               | 0.00              | 2.02               | 1.97              | 2.16              | 0.05             | Moderate                    |
| <i>Archosargus rhomboidalis</i>    | Species                   | 2.44              | 2.44             | 2.44             | 0.04            | 2.86                | 2.86               | 2.86               | 0.00              | 1.94               | 1.94              | 1.94              | 0.02             | Moderate                    |
| <i>Auxis thazard</i>               | Species                   | 2.15              | 1.78             | 2.22             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.84               | 1.80              | 2.03              | 0.06             | Moderate                    |
| <i>Bagre bagre</i>                 | Species                   | 2.07              | 1.78             | 2.33             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.67               | 1.53              | 1.84              | 0.11             | Low                         |
| <i>Bagre marinus</i>               | Species                   | 1.96              | 1.67             | 2.22             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.73               | 1.58              | 1.92              | 0.12             | Low                         |
| <i>Bothus maculiferus</i>          | Genus                     | 2.23              | 1.78             | 2.33             | 0.16            | 2.43                | 2.43               | 2.43               | 0.00              | 1.63               | 1.58              | 1.88              | 0.08             | Low                         |
| <i>Brachygenys chrysargyreum</i>   | Genus                     | 2.13              | 1.78             | 2.33             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.85               | 1.76              | 2.03              | 0.09             | Moderate                    |
| <i>Calamus penna</i>               | Genus                     | 2.24              | 1.89             | 2.44             | 0.17            | 2.57                | 2.57               | 2.57               | 0.00              | 1.75               | 1.67              | 1.92              | 0.08             | Low                         |
| <i>Calamus pennatula</i>           | Genus                     | 2.23              | 1.89             | 2.44             | 0.17            | 2.57                | 2.57               | 2.57               | 0.00              | 1.75               | 1.67              | 1.92              | 0.08             | Low                         |
| <i>Caranx bartholomaei</i>         | Family                    | 2.13              | 1.78             | 2.22             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.74               | 1.69              | 1.93              | 0.08             | Low                         |
| <i>Caranx crysos</i>               | Species                   | 2.10              | 1.67             | 2.22             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.75               | 1.69              | 2.01              | 0.08             | Low                         |
| <i>Caranx hippos</i>               | Species                   | 2.17              | 1.78             | 2.22             | 0.11            | 2.43                | 2.43               | 2.43               | 0.00              | 1.66               | 1.63              | 1.88              | 0.06             | Low                         |
| <i>Caranx latus</i>                | Genus                     | 2.20              | 1.78             | 2.33             | 0.15            | 2.43                | 2.43               | 2.43               | 0.00              | 1.64               | 1.58              | 1.88              | 0.08             | Low                         |
| <i>Carcharhinus acronotus</i>      | Species                   | 1.64              | 1.56             | 1.89             | 0.11            | 2.25                | 2.25               | 2.25               | 0.00              | 1.85               | 1.67              | 1.91              | 0.08             | Moderate                    |
| <i>Carcharhinus limbatus</i>       | Family                    | 1.59              | 1.56             | 1.78             | 0.08            | 2.25                | 2.25               | 2.25               | 0.00              | 1.88               | 1.75              | 1.91              | 0.06             | Moderate                    |
| <i>Cathorops spixii</i>            | Family                    | 2.19              | 1.78             | 2.44             | 0.20            | 2.38                | 2.38               | 2.38               | 0.00              | 1.61               | 1.48              | 1.84              | 0.10             | Low                         |
| <i>Centropomus parallelus</i>      | Genus                     | 2.18              | 1.78             | 2.33             | 0.17            | 2.50                | 2.50               | 2.50               | 0.00              | 1.71               | 1.64              | 1.93              | 0.09             | Low                         |
| <i>Cephalopholis fulva</i>         | Species                   | 2.28              | 1.89             | 2.44             | 0.15            | 2.75                | 2.75               | 2.75               | 0.00              | 1.90               | 1.84              | 2.07              | 0.06             | Moderate                    |
| <i>Cetengraulis edentulus</i>      | Species                   | 2.47              | 2.11             | 2.56             | 0.14            | 2.50                | 2.50               | 2.50               | 0.00              | 1.60               | 1.56              | 1.74              | 0.06             | Low                         |
| <i>Chaetodipterus faber</i>        | Species                   | 2.15              | 1.78             | 2.33             | 0.18            | 2.57                | 2.57               | 2.57               | 0.00              | 1.79               | 1.71              | 1.99              | 0.09             | Low                         |

| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Chaetodon striatus</i>         | Genus                     | 2.28              | 1.89             | 2.33             | 0.13            | 2.57                | 2.57               | 2.57               | 0.00              | 1.73               | 1.71              | 1.92              | 0.06             | Low                         |
| <i>Chloroscombrus chrysurus</i>   | Species                   | 2.13              | 1.78             | 2.22             | 0.15            | 2.57                | 2.57               | 2.57               | 0.00              | 1.80               | 1.75              | 1.99              | 0.08             | Moderate                    |
| <i>Conodon nobilis</i>            | Family                    | 2.25              | 1.89             | 2.44             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.72              | 1.97              | 0.08             | Low                         |
| <i>Cyclopsetta chittendeni</i>    | Species                   | 2.26              | 1.89             | 2.33             | 0.14            | 2.14                | 2.14               | 2.14               | 0.00              | 1.37               | 1.32              | 1.59              | 0.09             | Low                         |
| <i>Cynoscion leiarchus</i>        | Species                   | 2.29              | 1.89             | 2.44             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.78               | 1.72              | 1.97              | 0.07             | Low                         |
| <i>Cynoscion virescens</i>        | Genus                     | 2.12              | 1.78             | 2.33             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.86               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Dactylopterus volitans</i>     | Family                    | 2.09              | 1.67             | 2.22             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.66               | 1.58              | 1.92              | 0.10             | Low                         |
| <i>Decapterus macarellus</i>      | Species                   | 2.29              | 1.89             | 2.33             | 0.12            | 2.63                | 2.63               | 2.63               | 0.00              | 1.78               | 1.76              | 1.97              | 0.05             | Low                         |
| <i>Diapterus auratus</i>          | Genus                     | 2.51              | 2.11             | 2.56             | 0.12            | 2.57                | 2.57               | 2.57               | 0.00              | 1.65               | 1.63              | 1.81              | 0.05             | Low                         |
| <i>Diapterus rhombeus</i>         | Species                   | 2.42              | 2.00             | 2.44             | 0.09            | 2.57                | 2.57               | 2.57               | 0.00              | 1.68               | 1.67              | 1.86              | 0.04             | Low                         |
| <i>Echeneis naucrates</i>         | Order                     | 2.15              | 1.78             | 2.33             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.62               | 1.53              | 1.84              | 0.11             | Low                         |
| <i>Elops saurus</i>               | Species                   | 2.25              | 1.89             | 2.44             | 0.19            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.72              | 1.97              | 0.08             | Low                         |
| <i>Epinephelus adscensionis</i>   | Species                   | 2.18              | 1.89             | 2.34             | 0.14            | 2.75                | 2.75               | 2.75               | 0.00              | 1.94               | 1.87              | 2.07              | 0.06             | Moderate                    |
| <i>Eucinostomus gula</i>          | Species                   | 2.41              | 2.00             | 2.44             | 0.10            | 2.57                | 2.57               | 2.57               | 0.00              | 1.68               | 1.67              | 1.86              | 0.04             | Low                         |
| <i>Eugerres brasilianus</i>       | Species                   | 2.36              | 2.00             | 2.44             | 0.13            | 2.57                | 2.57               | 2.57               | 0.00              | 1.70               | 1.67              | 1.86              | 0.06             | Low                         |
| <i>Euthynnus alletteratus</i>     | Species                   | 1.99              | 1.67             | 2.22             | 0.16            | 2.50                | 2.50               | 2.50               | 0.00              | 1.81               | 1.69              | 2.01              | 0.09             | Moderate                    |
| <i>Fistularia petimba</i>         | Order                     | 1.98              | 1.56             | 2.11             | 0.18            | 2.43                | 2.43               | 2.43               | 0.00              | 1.76               | 1.68              | 2.03              | 0.11             | Low                         |
| <i>Genidens genidens</i>          | Genus                     | 2.10              | 1.78             | 2.44             | 0.17            | 2.38                | 2.38               | 2.38               | 0.00              | 1.65               | 1.48              | 1.84              | 0.09             | Low                         |
| <i>Gymnothorax funebris</i>       | Family                    | 1.92              | 1.67             | 2.22             | 0.18            | 2.43                | 2.43               | 2.43               | 0.00              | 1.80               | 1.63              | 1.95              | 0.10             | Low                         |
| <i>Gymnothorax ocellatus</i>      | Family                    | 2.03              | 1.78             | 2.33             | 0.18            | 2.43                | 2.43               | 2.43               | 0.00              | 1.73               | 1.58              | 1.88              | 0.10             | Low                         |
| <i>Gymnothorax vicinus</i>        | Family                    | 2.03              | 1.78             | 2.33             | 0.18            | 2.43                | 2.43               | 2.43               | 0.00              | 1.73               | 1.58              | 1.88              | 0.10             | Low                         |
| <i>Haemulon aurolineatum</i>      | Species                   | 2.43              | 2.00             | 2.56             | 0.14            | 2.75                | 2.75               | 2.75               | 0.00              | 1.85               | 1.81              | 2.02              | 0.05             | Moderate                    |
| <i>Haemulon parra</i>             | Species                   | 2.25              | 1.89             | 2.44             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.91               | 1.84              | 2.07              | 0.07             | Moderate                    |
| <i>Haemulon plumieri</i>          | Species                   | 2.24              | 1.89             | 2.44             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.91               | 1.84              | 2.07              | 0.07             | Moderate                    |
| <i>Haemulon steindachneri</i>     | Genus                     | 2.13              | 1.78             | 2.33             | 0.17            | 2.75                | 2.75               | 2.75               | 0.00              | 1.96               | 1.87              | 2.13              | 0.08             | Moderate                    |
| <i>Haemulopsis corvinaeformis</i> | Genus                     | 2.21              | 1.78             | 2.33             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.93               | 1.87              | 2.13              | 0.07             | Moderate                    |
| <i>Holacanthus ciliaris</i>       | Family                    | 2.39              | 2.00             | 2.67             | 0.20            | 2.57                | 2.57               | 2.57               | 0.00              | 1.70               | 1.61              | 1.86              | 0.07             | Low                         |
| <i>Holacanthus tricolor</i>       | Family                    | 2.38              | 2.00             | 2.67             | 0.21            | 2.57                | 2.57               | 2.57               | 0.00              | 1.70               | 1.61              | 1.86              | 0.08             | Low                         |
| <i>Holocentrus adscensionis</i>   | Species                   | 2.31              | 1.89             | 2.33             | 0.09            | 2.50                | 2.50               | 2.50               | 0.00              | 1.65               | 1.64              | 1.87              | 0.04             | Low                         |
| <i>Hypanus americanus</i>         | Genus                     | 1.69              | 1.44             | 2.00             | 0.17            | 2.43                | 2.43               | 2.43               | 0.00              | 1.94               | 1.74              | 2.11              | 0.12             | Moderate                    |
| <i>Lactophrys trigonus</i>        | Order                     | 2.33              | 1.89             | 2.44             | 0.17            | 2.50                | 2.50               | 2.50               | 0.00              | 1.65               | 1.60              | 1.87              | 0.08             | Low                         |
| <i>Larimus breviceps</i>          | Genus                     | 2.19              | 1.78             | 2.33             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.82               | 1.76              | 2.03              | 0.09             | Moderate                    |
| <i>Lutjanus analis</i>            | Species                   | 1.98              | 1.78             | 2.22             | 0.12            | 2.75                | 2.75               | 2.75               | 0.00              | 2.03               | 1.92              | 2.13              | 0.06             | Moderate                    |

| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Lutjanus apodus</i>            | Species                   | 2.08              | 1.78             | 2.33             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.98               | 1.87              | 2.13              | 0.08             | Moderate                    |
| <i>Lutjanus jocu</i>              | Species                   | 2.04              | 1.78             | 2.33             | 0.12            | 2.75                | 2.75               | 2.75               | 0.00              | 2.00               | 1.87              | 2.13              | 0.06             | Moderate                    |
| <i>Lutjanus synagris</i>          | Species                   | 2.11              | 1.78             | 2.22             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.86               | 1.80              | 2.03              | 0.07             | Moderate                    |
| <i>Lycengraulis grossidens</i>    | Species                   | 2.27              | 1.89             | 2.33             | 0.13            | 2.50                | 2.50               | 2.50               | 0.00              | 1.67               | 1.64              | 1.87              | 0.06             | Low                         |
| <i>Macrodon ancylodon</i>         | Species                   | 2.17              | 1.78             | 2.33             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.83               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Menticirrhus americanus</i>    | Species                   | 2.29              | 1.89             | 2.44             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.78               | 1.72              | 1.97              | 0.07             | Low                         |
| <i>Menticirrhus littoralis</i>    | Genus                     | 2.16              | 1.78             | 2.33             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.84               | 1.76              | 2.03              | 0.09             | Moderate                    |
| <i>Micropogonias furnieri</i>     | Species                   | 2.18              | 2.00             | 2.33             | 0.12            | 2.63                | 2.63               | 2.63               | 0.00              | 1.83               | 1.76              | 1.91              | 0.06             | Moderate                    |
| <i>Mugil curema</i>               | Species                   | 2.36              | 2.00             | 2.56             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.87               | 1.81              | 2.02              | 0.06             | Moderate                    |
| <i>Mulloidichthys martinicus</i>  | Species                   | 2.40              | 2.00             | 2.44             | 0.11            | 2.63                | 2.63               | 2.63               | 0.00              | 1.73               | 1.72              | 1.91              | 0.05             | Low                         |
| <i>Nebris microps</i>             | Family                    | 2.25              | 1.89             | 2.44             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.72              | 1.97              | 0.08             | Low                         |
| <i>Ocyurus chrysurus</i>          | Species                   | 2.10              | 1.78             | 2.22             | 0.15            | 2.88                | 2.88               | 2.88               | 0.00              | 2.08               | 2.03              | 2.24              | 0.07             | Moderate                    |
| <i>Oligoplites palometa</i>       | Family                    | 2.21              | 1.78             | 2.33             | 0.17            | 2.75                | 2.75               | 2.75               | 0.00              | 1.92               | 1.87              | 2.13              | 0.08             | Moderate                    |
| <i>Opisthonema oglinum</i>        | Species                   | 2.48              | 2.11             | 2.56             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.71               | 1.68              | 1.85              | 0.05             | Low                         |
| <i>Orthopristis rubra</i>         | Species                   | 2.29              | 1.89             | 2.44             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.66               | 1.60              | 1.87              | 0.07             | Low                         |
| <i>Paralonchurus brasiliensis</i> | Family                    | 2.37              | 2.00             | 2.56             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.75               | 1.68              | 1.91              | 0.07             | Low                         |
| <i>Peprilus paru</i>              | Genus                     | 2.26              | 1.89             | 2.33             | 0.14            | 2.43                | 2.43               | 2.43               | 0.00              | 1.61               | 1.58              | 1.81              | 0.07             | Low                         |
| <i>Polydactylus virginicus</i>    | Genus                     | 2.16              | 1.78             | 2.33             | 0.19            | 2.50                | 2.50               | 2.50               | 0.00              | 1.73               | 1.64              | 1.93              | 0.10             | Low                         |
| <i>Pomatomus saltatrix</i>        | Species                   | 2.05              | 1.67             | 2.22             | 0.15            | 2.38                | 2.38               | 2.38               | 0.00              | 1.68               | 1.58              | 1.92              | 0.09             | Low                         |
| <i>Priacanthus arenatus</i>       | Species                   | 2.26              | 1.89             | 2.33             | 0.13            | 2.50                | 2.50               | 2.50               | 0.00              | 1.67               | 1.64              | 1.87              | 0.07             | Low                         |
| <i>Prionotus punctatus</i>        | Species                   | 2.23              | 1.89             | 2.44             | 0.17            | 2.38                | 2.38               | 2.38               | 0.00              | 1.58               | 1.48              | 1.77              | 0.08             | Low                         |
| <i>Pseudupeneus maculatus</i>     | Species                   | 2.29              | 1.89             | 2.33             | 0.11            | 2.50                | 2.50               | 2.50               | 0.00              | 1.66               | 1.64              | 1.87              | 0.05             | Low                         |
| <i>Rachycentron canadum</i>       | Species                   | 1.98              | 1.67             | 2.22             | 0.17            | 2.50                | 2.50               | 2.50               | 0.00              | 1.82               | 1.69              | 2.01              | 0.09             | Moderate                    |
| <i>Rhizoprionodon porosus</i>     | Species                   | 1.73              | 1.56             | 1.89             | 0.13            | 2.38                | 2.38               | 2.38               | 0.00              | 1.88               | 1.77              | 1.99              | 0.09             | Moderate                    |
| <i>Scarus coelestinus</i>         | Genus                     | 2.44              | 2.11             | 2.67             | 0.18            | 2.71                | 2.71               | 2.71               | 0.00              | 1.81               | 1.75              | 1.93              | 0.06             | Moderate                    |
| <i>Sciades proops</i>             | Species                   | 2.05              | 1.67             | 2.22             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.68               | 1.58              | 1.92              | 0.11             | Low                         |
| <i>Scomberomorus brasiliensis</i> | Species                   | 2.05              | 1.89             | 2.23             | 0.13            | 2.50                | 2.50               | 2.50               | 0.00              | 1.78               | 1.69              | 1.87              | 0.07             | Low                         |
| <i>Scomberomorus cavalla</i>      | Species                   | 1.89              | 1.78             | 2.00             | 0.11            | 2.50                | 2.50               | 2.50               | 0.00              | 1.87               | 1.80              | 1.93              | 0.07             | Moderate                    |
| <i>Scomberomorus regalis</i>      | Species                   | 1.90              | 1.67             | 2.22             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.87               | 1.69              | 2.01              | 0.09             | Moderate                    |
| <i>Scorpaena plumieri</i>         | Genus                     | 2.21              | 1.78             | 2.33             | 0.16            | 2.38                | 2.38               | 2.38               | 0.00              | 1.59               | 1.53              | 1.84              | 0.08             | Low                         |
| <i>Selar crumenophthalmus</i>     | Species                   | 2.18              | 1.78             | 2.22             | 0.11            | 2.50                | 2.50               | 2.50               | 0.00              | 1.71               | 1.69              | 1.93              | 0.06             | Low                         |
| <i>Selene spixii</i>              | Genus                     | 2.24              | 1.89             | 2.33             | 0.15            | 2.71                | 2.71               | 2.71               | 0.00              | 1.88               | 1.84              | 2.04              | 0.07             | Moderate                    |
| <i>Selene vomer</i>               | Genus                     | 2.24              | 1.89             | 2.33             | 0.15            | 2.71                | 2.71               | 2.71               | 0.00              | 1.88               | 1.84              | 2.04              | 0.07             | Moderate                    |

| Species                       | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Sparisoma chrysopteron</i> | Species                   | 2.47              | 2.11             | 2.56             | 0.15            | 2.63                | 2.63               | 2.63               | 0.00              | 1.72               | 1.68              | 1.85              | 0.06             | Low                         |
| <i>Sparisoma rubripinne</i>   | Species                   | 2.45              | 2.11             | 2.56             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.72               | 1.68              | 1.85              | 0.06             | Low                         |
| <i>Sparisoma</i> sp.          | Genus                     | 2.40              | 2.00             | 2.56             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.74               | 1.68              | 1.91              | 0.07             | Low                         |
| <i>Sphyaena guachancho</i>    | Genus                     | 2.00              | 1.67             | 2.22             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.71               | 1.58              | 1.92              | 0.11             | Low                         |
| <i>Stellifer rastrifer</i>    | Family                    | 2.36              | 2.00             | 2.56             | 0.18            | 2.75                | 2.75               | 2.75               | 0.00              | 1.87               | 1.81              | 2.02              | 0.07             | Moderate                    |
| <i>Stephanolepis hispida</i>  | Species                   | 2.37              | 2.00             | 2.44             | 0.14            | 2.50                | 2.50               | 2.50               | 0.00              | 1.63               | 1.60              | 1.80              | 0.06             | Low                         |
| <i>Syacium papillosum</i>     | Genus                     | 2.36              | 2.00             | 2.44             | 0.15            | 2.29                | 2.29               | 2.29               | 0.00              | 1.44               | 1.40              | 1.63              | 0.08             | Low                         |
| <i>Trachinocephalus myops</i> | Family                    | 2.38              | 2.00             | 2.44             | 0.13            | 2.38                | 2.38               | 2.38               | 0.00              | 1.51               | 1.48              | 1.70              | 0.06             | Low                         |
| <i>Trachinotus carolinus</i>  | Genus                     | 2.20              | 1.78             | 2.33             | 0.17            | 2.57                | 2.57               | 2.57               | 0.00              | 1.77               | 1.71              | 1.99              | 0.08             | Low                         |
| <i>Trachinotus goodei</i>     | Genus                     | 2.21              | 1.78             | 2.33             | 0.16            | 2.57                | 2.57               | 2.57               | 0.00              | 1.76               | 1.71              | 1.99              | 0.08             | Low                         |

## PSA Other attributes w/o *r* – PR

| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Achirus lineatus</i>           | Genus                     | 2.23              | 1.89             | 2.33             | 0.16            | 2.29                | 2.29               | 2.29               | 0.00              | 1.51               | 1.45              | 1.70              | 0.09             | Low                         |
| <i>Albula vulpes</i>              | Species                   | 2.13              | 1.78             | 2.33             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.64               | 1.53              | 1.84              | 0.11             | Low                         |
| <i>Aluterus monoceros</i>         | Family                    | 2.03              | 1.67             | 2.11             | 0.15            | 2.43                | 2.43               | 2.43               | 0.00              | 1.73               | 1.68              | 1.95              | 0.09             | Low                         |
| <i>Astroscoptes y-graecum</i>     | Family                    | 2.29              | 1.89             | 2.44             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.56               | 1.48              | 1.77              | 0.09             | Low                         |
| <i>Archosargus rhomboidalis</i>   | Species                   | 2.44              | 2.22             | 2.44             | 0.05            | 2.86                | 2.86               | 2.86               | 0.00              | 1.94               | 1.94              | 2.01              | 0.02             | Moderate                    |
| <i>Bagre bagre</i>                | Species                   | 2.08              | 1.78             | 2.33             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.66               | 1.53              | 1.84              | 0.10             | Low                         |
| <i>Balistes caprisus</i>          | Species                   | 2.07              | 1.67             | 2.11             | 0.10            | 2.38                | 2.38               | 2.38               | 0.00              | 1.66               | 1.64              | 1.92              | 0.06             | Low                         |
| <i>Caranx crysos</i>              | Species                   | 2.11              | 1.78             | 2.22             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.75               | 1.69              | 1.93              | 0.08             | Low                         |
| <i>Cathorops spixii</i>           | Family                    | 2.21              | 1.78             | 2.44             | 0.20            | 2.38                | 2.38               | 2.38               | 0.00              | 1.60               | 1.48              | 1.84              | 0.10             | Low                         |
| <i>Centropomus parallelus</i>     | Genus                     | 2.18              | 1.78             | 2.33             | 0.18            | 2.50                | 2.50               | 2.50               | 0.00              | 1.72               | 1.64              | 1.93              | 0.09             | Low                         |
| <i>Chaetodipterus faber</i>       | Species                   | 2.16              | 1.78             | 2.33             | 0.18            | 2.57                | 2.57               | 2.57               | 0.00              | 1.79               | 1.71              | 1.99              | 0.09             | Low                         |
| <i>Chloroscombrus chrysurus</i>   | Species                   | 2.13              | 1.78             | 2.22             | 0.15            | 2.57                | 2.57               | 2.57               | 0.00              | 1.80               | 1.75              | 1.99              | 0.08             | Moderate                    |
| <i>Citharichthys arenaceus</i>    | Genus                     | 2.35              | 2.00             | 2.44             | 0.15            | 2.14                | 2.14               | 2.14               | 0.00              | 1.32               | 1.27              | 1.52              | 0.08             | Low                         |
| <i>Citharichthys macrops</i>      | Genus                     | 2.35              | 2.00             | 2.44             | 0.15            | 2.14                | 2.14               | 2.14               | 0.00              | 1.32               | 1.27              | 1.52              | 0.08             | Low                         |
| <i>Citharichthys spilopterus</i>  | Species                   | 2.26              | 1.89             | 2.33             | 0.13            | 2.14                | 2.14               | 2.14               | 0.00              | 1.37               | 1.32              | 1.59              | 0.08             | Low                         |
| <i>Conodon nobilis</i>            | Family                    | 2.24              | 1.89             | 2.44             | 0.19            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.72              | 1.97              | 0.08             | Moderate                    |
| <i>Ctenosciaena gracilicirrus</i> | Family                    | 2.24              | 1.89             | 2.44             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.72              | 1.97              | 0.08             | Moderate                    |
| <i>Cynoscion jamaicensis</i>      | Species                   | 2.22              | 1.89             | 2.33             | 0.14            | 2.63                | 2.63               | 2.63               | 0.00              | 1.81               | 1.76              | 1.97              | 0.07             | Moderate                    |
| <i>Cynoscion leiarchus</i>        | Species                   | 2.29              | 1.89             | 2.44             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.78               | 1.72              | 1.97              | 0.07             | Low                         |
| <i>Cynoscion microlepidotus</i>   | Species                   | 2.01              | 1.78             | 2.33             | 0.15            | 2.63                | 2.63               | 2.63               | 0.00              | 1.91               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Cynoscion virescens</i>        | Genus                     | 2.11              | 1.78             | 2.33             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.86               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Dactylopterus volitans</i>     | Family                    | 2.07              | 1.67             | 2.22             | 0.19            | 2.38                | 2.38               | 2.38               | 0.00              | 1.67               | 1.58              | 1.92              | 0.11             | Low                         |
| <i>Diapterus auratus</i>          | Genus                     | 2.51              | 2.11             | 2.56             | 0.12            | 2.57                | 2.57               | 2.57               | 0.00              | 1.65               | 1.63              | 1.81              | 0.05             | Low                         |
| <i>Diapterus rhombeus</i>         | Species                   | 2.41              | 2.00             | 2.44             | 0.10            | 2.57                | 2.57               | 2.57               | 0.00              | 1.68               | 1.67              | 1.86              | 0.04             | Low                         |
| <i>Diplectrum radiale</i>         | Genus                     | 2.28              | 1.89             | 2.44             | 0.17            | 2.50                | 2.50               | 2.50               | 0.00              | 1.67               | 1.60              | 1.87              | 0.08             | Low                         |
| <i>Echeneis naucrates</i>         | Order                     | 2.13              | 1.78             | 2.33             | 0.20            | 2.38                | 2.38               | 2.38               | 0.00              | 1.63               | 1.53              | 1.84              | 0.11             | Low                         |
| <i>Elops saurus</i>               | Species                   | 2.26              | 1.89             | 2.44             | 0.19            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.72              | 1.97              | 0.08             | Low                         |
| <i>Etropus crossotus</i>          | Species                   | 2.40              | 2.00             | 2.44             | 0.11            | 2.14                | 2.14               | 2.14               | 0.00              | 1.29               | 1.27              | 1.52              | 0.06             | Low                         |
| <i>Eucinostomus argenteus</i>     | Genus                     | 2.38              | 2.00             | 2.44             | 0.13            | 2.57                | 2.57               | 2.57               | 0.00              | 1.69               | 1.67              | 1.86              | 0.06             | Low                         |
| <i>Eucinostomus gula</i>          | Species                   | 2.41              | 2.00             | 2.44             | 0.10            | 2.57                | 2.57               | 2.57               | 0.00              | 1.68               | 1.67              | 1.86              | 0.04             | Low                         |
| <i>Eucinostomus melanopterus</i>  | Genus                     | 2.38              | 2.00             | 2.44             | 0.13            | 2.57                | 2.57               | 2.57               | 0.00              | 1.69               | 1.67              | 1.86              | 0.06             | Low                         |

| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Galeocerdo cuvier</i>          | Species                   | 1.56              | 1.44             | 1.78             | 0.07            | 2.38                | 2.38               | 2.38               | 0.00              | 1.99               | 1.84              | 2.08              | 0.05             | Moderate                    |
| <i>Genidens barbatus</i>          | Species                   | 1.78              | 1.56             | 2.11             | 0.13            | 2.25                | 2.25               | 2.25               | 0.00              | 1.75               | 1.53              | 1.91              | 0.09             | Low                         |
| <i>Genidens genidens</i>          | Genus                     | 2.09              | 1.78             | 2.44             | 0.17            | 2.38                | 2.38               | 2.38               | 0.00              | 1.65               | 1.48              | 1.84              | 0.09             | Low                         |
| <i>Gymnura altavela</i>           | Order                     | 1.72              | 1.44             | 2.11             | 0.18            | 2.29                | 2.29               | 2.29               | 0.00              | 1.82               | 1.56              | 2.02              | 0.13             | Moderate                    |
| <i>Haemulon steindachneri</i>     | Genus                     | 2.13              | 1.78             | 2.33             | 0.17            | 2.75                | 2.75               | 2.75               | 0.00              | 1.96               | 1.87              | 2.13              | 0.08             | Moderate                    |
| <i>Haemulopsis corvinaeformis</i> | Genus                     | 2.20              | 1.78             | 2.33             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.93               | 1.87              | 2.13              | 0.07             | Moderate                    |
| <i>Hemicaranx amblyrhynchus</i>   | Family                    | 2.23              | 1.88             | 2.33             | 0.16            | 2.57                | 2.57               | 2.57               | 0.00              | 1.76               | 1.71              | 1.93              | 0.08             | Low                         |
| <i>Hypanus guttatus</i>           | Genus                     | 1.69              | 1.44             | 2.00             | 0.17            | 2.29                | 2.29               | 2.29               | 0.00              | 1.84               | 1.63              | 2.02              | 0.12             | Moderate                    |
| <i>Hypanus say</i>                | Genus                     | 1.68              | 1.44             | 2.00             | 0.17            | 2.29                | 2.29               | 2.29               | 0.00              | 1.85               | 1.63              | 2.02              | 0.12             | Moderate                    |
| <i>Isopisthus parvipinnis</i>     | Family                    | 2.25              | 1.89             | 2.44             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.72              | 1.97              | 0.08             | Low                         |
| <i>Lagocephalus laevigatus</i>    | Genus                     | 2.17              | 1.78             | 2.22             | 0.13            | 2.38                | 2.38               | 2.38               | 0.00              | 1.61               | 1.58              | 1.84              | 0.07             | Low                         |
| <i>Larimus breviceps</i>          | Genus                     | 2.20              | 1.78             | 2.33             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.82               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Lutjanus synagris</i>          | Species                   | 2.11              | 1.78             | 2.22             | 0.13            | 2.63                | 2.63               | 2.63               | 0.00              | 1.86               | 1.80              | 2.03              | 0.07             | Moderate                    |
| <i>Macrodon ancylodon</i>         | Species                   | 2.17              | 1.89             | 2.33             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.83               | 1.76              | 1.97              | 0.08             | Moderate                    |
| <i>Menticirrhus americanus</i>    | Species                   | 2.28              | 1.89             | 2.44             | 0.17            | 2.63                | 2.63               | 2.63               | 0.00              | 1.78               | 1.72              | 1.97              | 0.07             | Low                         |
| <i>Menticirrhus littoralis</i>    | Genus                     | 2.16              | 1.78             | 2.33             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.84               | 1.76              | 2.03              | 0.09             | Moderate                    |
| <i>Micropogonias furnieri</i>     | Species                   | 2.18              | 2.00             | 2.33             | 0.12            | 2.63                | 2.63               | 2.63               | 0.00              | 1.83               | 1.76              | 1.91              | 0.06             | Moderate                    |
| <i>Mugil curema</i>               | Species                   | 2.36              | 2.00             | 2.56             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.87               | 1.81              | 2.02              | 0.06             | Moderate                    |
| <i>Mycteroperca rubra</i>         | Species                   | 2.13              | 1.89             | 2.33             | 0.16            | 2.75                | 2.75               | 2.75               | 0.00              | 1.96               | 1.87              | 2.07              | 0.07             | Moderate                    |
| <i>Oligoplites saliens</i>        | Family                    | 2.22              | 1.78             | 2.33             | 0.17            | 2.75                | 2.75               | 2.75               | 0.00              | 1.92               | 1.87              | 2.13              | 0.08             | Moderate                    |
| <i>Ophichthus gomesii</i>         | Genus                     | 2.03              | 1.78             | 2.33             | 0.18            | 2.43                | 2.43               | 2.43               | 0.00              | 1.74               | 1.58              | 1.88              | 0.10             | Low                         |
| <i>Opisthonema oglinum</i>        | Species                   | 2.48              | 2.11             | 2.56             | 0.14            | 2.63                | 2.63               | 2.63               | 0.00              | 1.71               | 1.68              | 1.85              | 0.05             | Low                         |
| <i>Orthopristis rubra</i>         | Species                   | 2.29              | 1.89             | 2.44             | 0.16            | 2.50                | 2.50               | 2.50               | 0.00              | 1.67               | 1.60              | 1.87              | 0.08             | Low                         |
| <i>Paralichthys orbignyanus</i>   | Species                   | 2.18              | 1.78             | 2.33             | 0.17            | 2.43                | 2.43               | 2.43               | 0.00              | 1.66               | 1.58              | 1.88              | 0.09             | Low                         |
| <i>Paralonchurus brasiliensis</i> | Species                   | 2.37              | 2.00             | 2.56             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.75               | 1.68              | 1.91              | 0.07             | Low                         |
| <i>Pellona harroweri</i>          | Genus                     | 2.24              | 1.89             | 2.33             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.76              | 1.97              | 0.07             | Low                         |
| <i>Peprilus paru</i>              | Genus                     | 2.27              | 1.89             | 2.33             | 0.13            | 2.43                | 2.43               | 2.43               | 0.00              | 1.61               | 1.58              | 1.81              | 0.07             | Low                         |
| <i>Pomatomus saltatrix</i>        | Species                   | 2.05              | 1.67             | 2.22             | 0.15            | 2.38                | 2.38               | 2.38               | 0.00              | 1.67               | 1.58              | 1.92              | 0.09             | Low                         |
| <i>Porichthys porosissimus</i>    | Species                   | 2.30              | 1.89             | 2.44             | 0.17            | 2.38                | 2.38               | 2.38               | 0.00              | 1.55               | 1.48              | 1.77              | 0.09             | Low                         |
| <i>Prionotus punctatus</i>        | Species                   | 2.23              | 1.89             | 2.44             | 0.17            | 2.38                | 2.38               | 2.38               | 0.00              | 1.58               | 1.48              | 1.77              | 0.09             | Low                         |
| <i>Pseudobatos percellens</i>     | Genus                     | 1.80              | 1.56             | 2.11             | 0.15            | 2.43                | 2.43               | 2.43               | 0.00              | 1.87               | 1.68              | 2.03              | 0.09             | Moderate                    |
| <i>Rhizoprionodon lalandii</i>    | Genus                     | 1.73              | 1.56             | 1.89             | 0.13            | 2.38                | 2.38               | 2.38               | 0.00              | 1.88               | 1.77              | 1.99              | 0.09             | Moderate                    |
| <i>Rhizoprionodon porosus</i>     | Species                   | 1.73              | 1.56             | 1.89             | 0.13            | 2.38                | 2.38               | 2.38               | 0.00              | 1.87               | 1.77              | 1.99              | 0.09             | Moderate                    |

| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Sardinella brasiliensis</i>    | Species                   | 2.52              | 2.22             | 2.56             | 0.10            | 2.50                | 2.50               | 2.50               | 0.00              | 1.58               | 1.56              | 1.69              | 0.04             | Low                         |
| <i>Scomberomorus brasiliensis</i> | Species                   | 2.05              | 1.89             | 2.22             | 0.13            | 2.50                | 2.50               | 2.50               | 0.00              | 1.78               | 1.69              | 1.87              | 0.07             | Low                         |
| <i>Scorpaena plumieri</i>         | Genus                     | 2.20              | 1.78             | 2.33             | 0.16            | 2.38                | 2.38               | 2.38               | 0.00              | 1.59               | 1.53              | 1.84              | 0.09             | Low                         |
| <i>Selene setapinnis</i>          | Species                   | 2.17              | 1.78             | 2.22             | 0.13            | 2.71                | 2.71               | 2.71               | 0.00              | 1.91               | 1.88              | 2.11              | 0.06             | Moderate                    |
| <i>Selene vomer</i>               | Genus                     | 2.24              | 1.89             | 2.33             | 0.15            | 2.71                | 2.71               | 2.71               | 0.00              | 1.88               | 1.84              | 2.04              | 0.07             | Moderate                    |
| <i>Sphyræna guachancho</i>        | Genus                     | 1.98              | 1.67             | 2.22             | 0.18            | 2.38                | 2.38               | 2.38               | 0.00              | 1.72               | 1.58              | 1.92              | 0.11             | Low                         |
| <i>Sphyrna lewini</i>             | Species                   | 1.47              | 1.44             | 1.56             | 0.05            | 2.50                | 2.50               | 2.50               | 0.00              | 2.14               | 2.08              | 2.16              | 0.03             | Moderate                    |
| <i>Sphyrna zygaena</i>            | Genus                     | 1.53              | 1.44             | 1.67             | 0.06            | 2.25                | 2.25               | 2.25               | 0.00              | 1.93               | 1.83              | 2.00              | 0.05             | Moderate                    |
| <i>Stellifer brasiliensis</i>     | Family                    | 2.36              | 2.00             | 2.56             | 0.19            | 2.75                | 2.75               | 2.75               | 0.00              | 1.87               | 1.81              | 2.02              | 0.07             | Moderate                    |
| <i>Stellifer rastrifer</i>        | Family                    | 2.36              | 2.00             | 2.56             | 0.18            | 2.75                | 2.75               | 2.75               | 0.00              | 1.87               | 1.81              | 2.02              | 0.07             | Moderate                    |
| <i>Stephanolepis hispidus</i>     | Species                   | 2.37              | 2.00             | 2.44             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 1.63               | 1.60              | 1.80              | 0.07             | Low                         |
| <i>Syacium papillosum</i>         | Genus                     | 2.35              | 2.00             | 2.44             | 0.16            | 2.29                | 2.29               | 2.29               | 0.00              | 1.45               | 1.40              | 1.63              | 0.08             | Low                         |
| <i>Symphurus tessellatus</i>      | Genus                     | 2.20              | 1.78             | 2.33             | 0.17            | 2.29                | 2.29               | 2.29               | 0.00              | 1.52               | 1.45              | 1.77              | 0.09             | Low                         |
| <i>Synodus foetens</i>            | Genus                     | 2.26              | 1.89             | 2.33             | 0.14            | 2.50                | 2.50               | 2.50               | 0.00              | 1.68               | 1.64              | 1.87              | 0.07             | Low                         |
| <i>Trachinotus carolinus</i>      | Genus                     | 2.21              | 1.78             | 2.33             | 0.17            | 2.57                | 2.57               | 2.57               | 0.00              | 1.77               | 1.71              | 1.99              | 0.08             | Low                         |
| <i>Trichiurus lepturus</i>        | Genus                     | 1.81              | 1.67             | 2.00             | 0.08            | 2.57                | 2.57               | 2.57               | 0.00              | 1.97               | 1.86              | 2.06              | 0.05             | Moderate                    |
| <i>Trinectes paulistanus</i>      | Genus                     | 2.44              | 2.00             | 2.56             | 0.16            | 2.29                | 2.29               | 2.29               | 0.00              | 1.41               | 1.36              | 1.63              | 0.07             | Low                         |
| <i>Umbrina canosai</i>            | Species                   | 2.20              | 1.78             | 2.33             | 0.16            | 2.63                | 2.63               | 2.63               | 0.00              | 1.82               | 1.76              | 2.03              | 0.08             | Moderate                    |
| <i>Umbrina coroides</i>           | Genus                     | 2.35              | 2.00             | 2.56             | 0.18            | 2.63                | 2.63               | 2.63               | 0.00              | 1.76               | 1.68              | 1.91              | 0.07             | Low                         |
| <i>Zapaterus brevirostris</i>     | Family                    | 1.90              | 1.67             | 2.23             | 0.16            | 2.29                | 2.29               | 2.29               | 0.00              | 1.69               | 1.50              | 1.85              | 0.10             | Low                         |

## PSA r only – RN

| Species                             | FishLife prediction level | Mean productivity | LCI Productivity | UCI Productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-------------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Acanthostracion quadricornis</i> | Family                    | 2.56              | 1.33             | 3.00             | 0.57            | 2.43                | 2.43               | 2.43               | 0.00              | 1.58               | 1.43              | 2.20              | 0.24             | Low                         |
| <i>Acanthurus bahianus</i>          | Species                   | 2.25              | 1.33             | 2.67             | 0.53            | 2.50                | 2.50               | 2.50               | 0.00              | 1.74               | 1.54              | 2.24              | 0.28             | Low                         |
| <i>Acanthurus chirurgus</i>         | Species                   | 2.32              | 1.33             | 2.67             | 0.49            | 2.50                | 2.50               | 2.50               | 0.00              | 1.70               | 1.54              | 2.24              | 0.25             | Low                         |
| <i>Achirus lineatus</i>             | Genus                     | 2.66              | 1.33             | 3.00             | 0.50            | 2.33                | 2.33               | 2.33               | 0.00              | 1.45               | 1.33              | 2.13              | 0.22             | Low                         |
| <i>Albula vulpes</i>                | Species                   | 2.40              | 1.33             | 3.00             | 0.55            | 2.57                | 2.57               | 2.57               | 0.00              | 1.75               | 1.57              | 2.29              | 0.24             | Low                         |
| <i>Alectis ciliaris</i>             | Genus                     | 2.55              | 1.33             | 3.00             | 0.53            | 2.67                | 2.67               | 2.67               | 0.00              | 1.79               | 1.67              | 2.36              | 0.20             | Low                         |
| <i>Alphestes afer</i>               | Family                    | 2.32              | 1.33             | 3.00             | 0.55            | 2.71                | 2.71               | 2.71               | 0.00              | 1.91               | 1.71              | 2.39              | 0.23             | Moderate                    |
| <i>Aluterus monoceros</i>           | Family                    | 2.80              | 1.67             | 3.00             | 0.42            | 2.33                | 2.33               | 2.33               | 0.00              | 1.40               | 1.33              | 1.89              | 0.17             | Low                         |
| <i>Anisotremus virginicus</i>       | Genus                     | 2.34              | 1.33             | 3.00             | 0.55            | 2.83                | 2.83               | 2.83               | 0.00              | 2.01               | 1.83              | 2.48              | 0.23             | Moderate                    |
| <i>Archosargus rhomboidalis</i>     | Species                   | 2.98              | 3.00             | 3.00             | 0.14            | 2.83                | 2.83               | 2.83               | 0.00              | 1.84               | 1.83              | 1.83              | 0.04             | Moderate                    |
| <i>Aspistor luniscutis</i>          | Family                    | 2.25              | 1.33             | 3.00             | 0.57            | 2.43                | 2.43               | 2.43               | 0.00              | 1.69               | 1.43              | 2.20              | 0.28             | Low                         |
| <i>Auxis thazard</i>                | Species                   | 2.79              | 1.67             | 3.00             | 0.39            | 2.86                | 2.86               | 2.86               | 0.00              | 1.91               | 1.86              | 2.29              | 0.11             | Moderate                    |
| <i>Bagre bagre</i>                  | Species                   | 2.24              | 1.33             | 3.00             | 0.56            | 2.43                | 2.43               | 2.43               | 0.00              | 1.69               | 1.43              | 2.20              | 0.28             | Low                         |
| <i>Bagre marinus</i>                | Genus                     | 2.20              | 1.00             | 3.00             | 0.58            | 2.43                | 2.43               | 2.43               | 0.00              | 1.71               | 1.43              | 2.46              | 0.30             | Low                         |
| <i>Balistes capriscus</i>           | Species                   | 2.88              | 1.67             | 3.00             | 0.31            | 2.29                | 2.29               | 2.29               | 0.00              | 1.32               | 1.29              | 1.85              | 0.13             | Low                         |
| <i>Brachygenys chrysargyreum</i>    | Genus                     | 2.40              | 1.33             | 3.00             | 0.51            | 2.86                | 2.86               | 2.86               | 0.00              | 2.01               | 1.86              | 2.50              | 0.20             | Moderate                    |
| <i>Calamus calamus</i>              | Genus                     | 2.42              | 1.33             | 3.00             | 0.48            | 2.83                | 2.83               | 2.83               | 0.00              | 1.97               | 1.83              | 2.48              | 0.19             | Moderate                    |
| <i>Calamus penna</i>                | Genus                     | 2.38              | 1.33             | 3.00             | 0.50            | 2.83                | 2.83               | 2.83               | 0.00              | 1.99               | 1.83              | 2.48              | 0.20             | Moderate                    |
| <i>Calamus pennatula</i>            | Genus                     | 2.40              | 1.33             | 3.00             | 0.49            | 2.83                | 2.83               | 2.83               | 0.00              | 1.98               | 1.83              | 2.48              | 0.20             | Moderate                    |
| <i>Cantherhines pullus</i>          | Family                    | 2.75              | 1.67             | 3.00             | 0.47            | 2.33                | 2.33               | 2.33               | 0.00              | 1.42               | 1.33              | 1.89              | 0.20             | Low                         |
| <i>Caranx bartholomaei</i>          | Genus                     | 2.73              | 1.67             | 3.00             | 0.45            | 2.71                | 2.71               | 2.71               | 0.00              | 1.79               | 1.71              | 2.17              | 0.15             | Low                         |
| <i>Caranx crysos</i>                | Species                   | 2.68              | 1.67             | 3.00             | 0.43            | 2.71                | 2.71               | 2.71               | 0.00              | 1.79               | 1.71              | 2.17              | 0.15             | Low                         |
| <i>Caranx hippos</i>                | Species                   | 2.82              | 1.67             | 3.00             | 0.35            | 2.67                | 2.67               | 2.67               | 0.00              | 1.71               | 1.67              | 2.13              | 0.12             | Low                         |
| <i>Caranx latus</i>                 | Genus                     | 2.54              | 1.33             | 3.00             | 0.51            | 2.67                | 2.67               | 2.67               | 0.00              | 1.79               | 1.67              | 2.36              | 0.20             | Low                         |
| <i>Carcharhinus acronotus</i>       | Species                   | 1.59              | 1.33             | 2.00             | 0.33            | 2.43                | 2.43               | 2.43               | 0.00              | 2.02               | 1.74              | 2.20              | 0.22             | Moderate                    |
| <i>Carcharhinus limbatus</i>        | Species                   | 1.48              | 1.33             | 2.00             | 0.27            | 2.43                | 2.43               | 2.43               | 0.00              | 2.10               | 1.74              | 2.20              | 0.18             | Moderate                    |
| <i>Cathorops spixii</i>             | Genus                     | 2.29              | 1.00             | 3.00             | 0.58            | 2.43                | 2.43               | 2.43               | 0.00              | 1.67               | 1.43              | 2.46              | 0.29             | Low                         |
| <i>Centropomus parallelus</i>       | Genus                     | 2.55              | 1.33             | 3.00             | 0.52            | 2.71                | 2.71               | 2.71               | 0.00              | 1.84               | 1.71              | 2.39              | 0.20             | Moderate                    |
| <i>Centropomus undecimalis</i>      | Species                   | 2.66              | 1.67             | 3.00             | 0.47            | 2.71                | 2.71               | 2.71               | 0.00              | 1.80               | 1.71              | 2.17              | 0.16             | Moderate                    |
| <i>Cephalopholis fulva</i>          | Species                   | 2.48              | 1.33             | 3.00             | 0.47            | 2.71                | 2.71               | 2.71               | 0.00              | 1.84               | 1.71              | 2.39              | 0.18             | Moderate                    |
| <i>Chaetodipterus faber</i>         | Species                   | 2.46              | 1.33             | 3.00             | 0.53            | 2.50                | 2.50               | 2.50               | 0.00              | 1.66               | 1.50              | 2.24              | 0.23             | Low                         |

| Species                         | FishLife prediction level | Mean productivity | LCI Productivity | UCI Productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|---------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Chaetodon striatus</i>       | Genus                     | 2.84              | 1.67             | 3.00             | 0.38            | 2.50                | 2.50               | 2.50               | 0.00              | 1.55               | 1.50              | 2.01              | 0.14             | Low                         |
| <i>Chilomycterus spinosus</i>   | Family                    | 2.60              | 1.33             | 3.00             | 0.55            | 2.57                | 2.57               | 2.57               | 0.00              | 1.70               | 1.57              | 2.29              | 0.22             | Low                         |
| <i>Chloroscombrus chrysurus</i> | Species                   | 2.73              | 1.67             | 3.00             | 0.43            | 2.67                | 2.67               | 2.67               | 0.00              | 1.73               | 1.67              | 2.13              | 0.15             | Low                         |
| <i>Conodon nobilis</i>          | Family                    | 2.39              | 1.33             | 3.00             | 0.55            | 2.71                | 2.71               | 2.71               | 0.00              | 1.89               | 1.71              | 2.39              | 0.23             | Moderate                    |
| <i>Cynoscion jamaicensis</i>    | Species                   | 2.65              | 1.67             | 3.00             | 0.46            | 2.71                | 2.71               | 2.71               | 0.00              | 1.80               | 1.71              | 2.17              | 0.15             | Moderate                    |
| <i>Cynoscion leiarchus</i>      | Species                   | 2.57              | 1.33             | 3.00             | 0.47            | 2.71                | 2.71               | 2.71               | 0.00              | 1.82               | 1.71              | 2.39              | 0.16             | Moderate                    |
| <i>Cynoscion microlepidotus</i> | Species                   | 2.01              | 1.33             | 3.00             | 0.45            | 2.71                | 2.71               | 2.71               | 0.00              | 2.02               | 1.71              | 2.39              | 0.22             | Moderate                    |
| <i>Cynoscion virescens</i>      | Genus                     | 2.35              | 1.33             | 3.00             | 0.50            | 2.71                | 2.71               | 2.71               | 0.00              | 1.89               | 1.71              | 2.39              | 0.20             | Moderate                    |
| <i>Dactylopterus volitans</i>   | Family                    | 2.57              | 1.33             | 3.00             | 0.53            | 2.57                | 2.57               | 2.57               | 0.00              | 1.70               | 1.57              | 2.29              | 0.21             | Low                         |
| <i>Decapterus punctatus</i>     | Species                   | 2.84              | 1.67             | 3.00             | 0.37            | 2.71                | 2.71               | 2.71               | 0.00              | 1.76               | 1.71              | 2.17              | 0.11             | Low                         |
| <i>Decapterus tabl</i>          | Genus                     | 2.82              | 1.67             | 3.00             | 0.39            | 2.86                | 2.86               | 2.86               | 0.00              | 1.90               | 1.86              | 2.29              | 0.12             | Moderate                    |
| <i>Diapterus auratus</i>        | Genus                     | 2.86              | 1.67             | 3.00             | 0.37            | 2.67                | 2.67               | 2.67               | 0.00              | 1.71               | 1.67              | 2.13              | 0.12             | Low                         |
| <i>Diodon sp.</i>               | Family                    | 2.57              | 1.33             | 3.00             | 0.56            | 2.43                | 2.43               | 2.43               | 0.00              | 1.57               | 1.43              | 2.20              | 0.24             | Low                         |
| <i>Echeneis naucrates</i>       | Order                     | 2.44              | 1.33             | 3.00             | 0.57            | 2.29                | 2.29               | 2.29               | 0.00              | 1.49               | 1.29              | 2.10              | 0.28             | Low                         |
| <i>Echeneis neucratoides</i>    | Order                     | 2.45              | 1.33             | 3.00             | 0.56            | 2.29                | 2.29               | 2.29               | 0.00              | 1.48               | 1.29              | 2.10              | 0.27             | Low                         |
| <i>Elagatis bipinnulata</i>     | Species                   | 2.78              | 1.67             | 3.00             | 0.41            | 2.71                | 2.71               | 2.71               | 0.00              | 1.77               | 1.71              | 2.17              | 0.13             | Low                         |
| <i>Elops saurus</i>             | Species                   | 2.46              | 1.33             | 3.00             | 0.55            | 2.71                | 2.71               | 2.71               | 0.00              | 1.87               | 1.71              | 2.39              | 0.22             | Moderate                    |
| <i>Epinephelus adscensionis</i> | Species                   | 2.22              | 1.33             | 3.00             | 0.42            | 2.71                | 2.71               | 2.71               | 0.00              | 1.92               | 1.71              | 2.39              | 0.18             | Moderate                    |
| <i>Eugerres brasilianus</i>     | Species                   | 2.71              | 1.33             | 3.00             | 0.45            | 2.67                | 2.67               | 2.67               | 0.00              | 1.74               | 1.67              | 2.36              | 0.16             | Low                         |
| <i>Euthynnus alletteratus</i>   | Species                   | 2.32              | 1.33             | 3.00             | 0.47            | 2.71                | 2.71               | 2.71               | 0.00              | 1.90               | 1.71              | 2.39              | 0.18             | Moderate                    |
| <i>Fistularia petimba</i>       | Order                     | 2.56              | 1.33             | 3.00             | 0.57            | 2.33                | 2.33               | 2.33               | 0.00              | 1.49               | 1.33              | 2.13              | 0.25             | Low                         |
| <i>Fistularia tabacaria</i>     | Order                     | 2.57              | 1.33             | 3.00             | 0.56            | 2.33                | 2.33               | 2.33               | 0.00              | 1.49               | 1.33              | 2.13              | 0.25             | Low                         |
| <i>Genidens barbus</i>          | Species                   | 1.68              | 1.00             | 2.67             | 0.38            | 2.29                | 2.29               | 2.29               | 0.00              | 1.86               | 1.33              | 2.38              | 0.27             | Moderate                    |
| <i>Genidens machadoi</i>        | Genus                     | 1.97              | 1.00             | 2.67             | 0.52            | 2.43                | 2.43               | 2.43               | 0.00              | 1.82               | 1.47              | 2.46              | 0.30             | Moderate                    |
| <i>Genyatremus luteus</i>       | Family                    | 2.39              | 1.33             | 3.00             | 0.57            | 2.67                | 2.67               | 2.67               | 0.00              | 1.85               | 1.67              | 2.36              | 0.24             | Moderate                    |
| <i>Ginglymostoma cirratum</i>   | Species                   | 1.19              | 1.00             | 2.00             | 0.25            | 2.57                | 2.57               | 2.57               | 0.00              | 2.40               | 1.86              | 2.54              | 0.18             | High                        |
| <i>Gymnothorax moringa</i>      | Family                    | 1.77              | 1.00             | 2.67             | 0.52            | 2.33                | 2.33               | 2.33               | 0.00              | 1.86               | 1.37              | 2.40              | 0.32             | Moderate                    |
| <i>Gymnothorax vicinus</i>      | Family                    | 1.76              | 1.00             | 2.68             | 0.53            | 2.33                | 2.33               | 2.33               | 0.00              | 1.87               | 1.37              | 2.40              | 0.33             | Moderate                    |
| <i>Haemulon aurolineatum</i>    | Species                   | 2.60              | 1.33             | 3.00             | 0.42            | 2.86                | 2.86               | 2.86               | 0.00              | 1.94               | 1.86              | 2.50              | 0.15             | Moderate                    |
| <i>Haemulon melanurum</i>       | Species                   | 2.49              | 1.33             | 3.00             | 0.48            | 2.86                | 2.86               | 2.86               | 0.00              | 1.98               | 1.86              | 2.50              | 0.18             | Moderate                    |
| <i>Haemulon parra</i>           | Species                   | 2.44              | 1.33             | 3.00             | 0.49            | 2.86                | 2.86               | 2.86               | 0.00              | 1.99               | 1.86              | 2.50              | 0.19             | Moderate                    |
| <i>Haemulon plumierii</i>       | Species                   | 2.41              | 1.33             | 3.00             | 0.44            | 2.86                | 2.86               | 2.86               | 0.00              | 1.99               | 1.86              | 2.50              | 0.18             | Moderate                    |
| <i>Haemulon steindachneri</i>   | Genus                     | 2.40              | 1.33             | 3.00             | 0.52            | 2.86                | 2.86               | 2.86               | 0.00              | 2.01               | 1.86              | 2.50              | 0.21             | Moderate                    |

| Species                             | FishLife prediction level | Mean productivity | LCI Productivity | UCI Productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-------------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Harengula clupeola</i>           | Genus                     | 2.85              | 1.67             | 3.00             | 0.36            | 2.86                | 2.86               | 2.86               | 0.00              | 1.89               | 1.86              | 2.29              | 0.11             | Moderate                    |
| <i>Heteropriacanthus cruentatus</i> | Family                    | 2.62              | 1.33             | 3.00             | 0.52            | 2.50                | 2.50               | 2.50               | 0.00              | 1.62               | 1.50              | 2.24              | 0.21             | Low                         |
| <i>Holacanthus ciliaris</i>         | Family                    | 2.18              | 1.00             | 3.00             | 0.60            | 2.50                | 2.50               | 2.50               | 0.00              | 1.79               | 1.50              | 2.50              | 0.30             | Low                         |
| <i>Holocentrus adscensionis</i>     | Species                   | 2.95              | 1.67             | 3.00             | 0.25            | 2.43                | 2.43               | 2.43               | 0.00              | 1.45               | 1.43              | 1.95              | 0.09             | Low                         |
| <i>Hypanus marianae</i>             | Genus                     | 2.06              | 1.33             | 3.00             | 0.52            | 2.50                | 2.50               | 2.50               | 0.00              | 1.83               | 1.50              | 2.24              | 0.25             | Moderate                    |
| <i>Lactophrys trigonus</i>          | Family                    | 2.64              | 1.33             | 3.00             | 0.52            | 2.43                | 2.43               | 2.43               | 0.00              | 1.55               | 1.43              | 2.20              | 0.22             | Low                         |
| <i>Lagocephalus laevigatus</i>      | Genus                     | 2.86              | 1.67             | 3.00             | 0.37            | 2.43                | 2.43               | 2.43               | 0.00              | 1.47               | 1.43              | 1.95              | 0.14             | Low                         |
| <i>Larimus breviceps</i>            | Family                    | 2.56              | 1.33             | 3.00             | 0.53            | 2.71                | 2.71               | 2.71               | 0.00              | 1.84               | 1.71              | 2.39              | 0.19             | Moderate                    |
| <i>Lutjanus alexandrei</i>          | Genus                     | 2.04              | 1.33             | 3.00             | 0.46            | 2.86                | 2.86               | 2.86               | 0.00              | 2.13               | 1.86              | 2.50              | 0.21             | Moderate                    |
| <i>Lutjanus analis</i>              | Species                   | 1.94              | 1.33             | 2.67             | 0.35            | 2.86                | 2.86               | 2.86               | 0.00              | 2.16               | 1.89              | 2.50              | 0.17             | Moderate                    |
| <i>Lutjanus apodus</i>              | Species                   | 2.28              | 1.33             | 3.00             | 0.50            | 2.86                | 2.86               | 2.86               | 0.00              | 2.05               | 1.86              | 2.50              | 0.20             | Moderate                    |
| <i>Lutjanus jocu</i>                | Species                   | 1.81              | 1.00             | 2.67             | 0.38            | 2.86                | 2.86               | 2.86               | 0.00              | 2.23               | 1.89              | 2.73              | 0.21             | High                        |
| <i>Lutjanus synagris</i>            | Species                   | 2.67              | 1.67             | 3.00             | 0.39            | 2.86                | 2.86               | 2.86               | 0.00              | 1.92               | 1.86              | 2.29              | 0.10             | Moderate                    |
| <i>Lycengraulis batesii</i>         | Genus                     | 2.79              | 1.67             | 3.00             | 0.42            | 2.71                | 2.71               | 2.71               | 0.00              | 1.77               | 1.71              | 2.17              | 0.14             | Low                         |
| <i>Lycengraulis grossidens</i>      | Species                   | 2.81              | 1.67             | 3.00             | 0.38            | 2.71                | 2.71               | 2.71               | 0.00              | 1.76               | 1.71              | 2.17              | 0.12             | Low                         |
| <i>Micropogonias furnieri</i>       | Species                   | 2.51              | 2.00             | 3.00             | 0.40            | 2.71                | 2.71               | 2.71               | 0.00              | 1.82               | 1.71              | 1.98              | 0.13             | Moderate                    |
| <i>Mugil curema</i>                 | Species                   | 2.36              | 1.33             | 3.00             | 0.51            | 2.86                | 2.86               | 2.86               | 0.00              | 2.02               | 1.86              | 2.50              | 0.18             | Moderate                    |
| <i>Mulloidichthys martinicus</i>    | Species                   | 2.87              | 1.67             | 3.00             | 0.34            | 2.71                | 2.71               | 2.71               | 0.00              | 1.75               | 1.71              | 2.17              | 0.11             | Low                         |
| <i>Mycteroperca bonaci</i>          | Species                   | 1.61              | 1.00             | 2.00             | 0.38            | 2.57                | 2.57               | 2.57               | 0.00              | 2.11               | 1.86              | 2.54              | 0.25             | Moderate                    |
| <i>Notarius grandicassis</i>        | Genus                     | 2.29              | 1.33             | 3.00             | 0.58            | 2.43                | 2.43               | 2.43               | 0.00              | 1.67               | 1.43              | 2.20              | 0.28             | Low                         |
| <i>Ocyurus chrysurus</i>            | Species                   | 2.27              | 1.33             | 2.67             | 0.45            | 2.86                | 2.86               | 2.86               | 0.00              | 2.04               | 1.89              | 2.50              | 0.19             | Moderate                    |
| <i>Oligoplites palometa</i>         | Family                    | 2.64              | 1.33             | 3.00             | 0.51            | 2.86                | 2.86               | 2.86               | 0.00              | 1.95               | 1.86              | 2.50              | 0.17             | Moderate                    |
| <i>Oligoplites saliens</i>          | Family                    | 2.66              | 1.33             | 3.00             | 0.49            | 2.86                | 2.86               | 2.86               | 0.00              | 1.94               | 1.86              | 2.50              | 0.16             | Moderate                    |
| <i>Opisthonema oglinum</i>          | Species                   | 2.79              | 1.67             | 3.00             | 0.40            | 2.86                | 2.86               | 2.86               | 0.00              | 1.91               | 1.86              | 2.29              | 0.12             | Moderate                    |
| <i>Orthopristis rubra</i>           | Species                   | 2.53              | 1.33             | 3.00             | 0.48            | 2.71                | 2.71               | 2.71               | 0.00              | 1.83               | 1.71              | 2.39              | 0.18             | Moderate                    |
| <i>Paralichthys brasiliensis</i>    | Genus                     | 2.54              | 1.33             | 3.00             | 0.49            | 2.50                | 2.50               | 2.50               | 0.00              | 1.63               | 1.50              | 2.24              | 0.20             | Low                         |
| <i>Polydactylus virginicus</i>      | Genus                     | 2.52              | 1.33             | 3.00             | 0.55            | 2.57                | 2.57               | 2.57               | 0.00              | 1.72               | 1.57              | 2.29              | 0.22             | Low                         |
| <i>Pomacanthus paru</i>             | Species                   | 1.86              | 1.00             | 2.67             | 0.50            | 2.67                | 2.67               | 2.67               | 0.00              | 2.06               | 1.70              | 2.60              | 0.27             | Moderate                    |
| <i>Priacanthus arenatus</i>         | Species                   | 2.81              | 1.67             | 3.00             | 0.39            | 2.43                | 2.43               | 2.43               | 0.00              | 1.49               | 1.43              | 1.95              | 0.14             | Low                         |
| <i>Prionotus punctatus</i>          | Species                   | 2.33              | 1.33             | 3.00             | 0.51            | 2.43                | 2.43               | 2.43               | 0.00              | 1.64               | 1.43              | 2.20              | 0.24             | Low                         |
| <i>Pseudobatos percellens</i>       | Genus                     | 1.73              | 1.00             | 2.67             | 0.44            | 2.50                | 2.50               | 2.50               | 0.00              | 2.00               | 1.54              | 2.50              | 0.26             | Moderate                    |
| <i>Pseudupeneus maculatus</i>       | Species                   | 2.87              | 1.67             | 3.00             | 0.34            | 2.57                | 2.57               | 2.57               | 0.00              | 1.61               | 1.57              | 2.06              | 0.12             | Low                         |
| <i>Rachycentron canadum</i>         | Species                   | 2.30              | 1.33             | 3.00             | 0.50            | 2.57                | 2.57               | 2.57               | 0.00              | 1.78               | 1.57              | 2.29              | 0.23             | Low                         |

| Species                           | FishLife prediction level | Mean productivity | LCI Productivity | UCI Productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Rhizoprionodon porosus</i>     | Species                   | 1.83              | 1.33             | 2.33             | 0.39            | 2.57                | 2.57               | 2.57               | 0.00              | 1.98               | 1.71              | 2.29              | 0.22             | Moderate                    |
| <i>Sciaedes proops</i>            | Species                   | 2.49              | 1.33             | 3.00             | 0.54            | 2.43                | 2.43               | 2.43               | 0.00              | 1.59               | 1.43              | 2.20              | 0.23             | Low                         |
| <i>Scomberomorus brasiliensis</i> | Species                   | 1.82              | 1.33             | 2.33             | 0.39            | 2.71                | 2.71               | 2.71               | 0.00              | 2.11               | 1.84              | 2.39              | 0.21             | Moderate                    |
| <i>Scomberomorus cavalla</i>      | Species                   | 1.66              | 1.33             | 2.00             | 0.34            | 2.71                | 2.71               | 2.71               | 0.00              | 2.19               | 1.98              | 2.39              | 0.21             | Moderate                    |
| <i>Scomberomorus regalis</i>      | Species                   | 2.01              | 1.33             | 3.00             | 0.41            | 2.71                | 2.71               | 2.71               | 0.00              | 2.01               | 1.71              | 2.39              | 0.20             | Moderate                    |
| <i>Scorpaena plumieri</i>         | Genus                     | 2.62              | 1.33             | 3.00             | 0.48            | 2.43                | 2.43               | 2.43               | 0.00              | 1.54               | 1.43              | 2.20              | 0.19             | Low                         |
| <i>Selar crumenophthalmus</i>     | Species                   | 2.88              | 1.67             | 3.00             | 0.33            | 2.71                | 2.71               | 2.71               | 0.00              | 1.75               | 1.71              | 2.17              | 0.10             | Low                         |
| <i>Selene brownii</i>             | Species                   | 2.80              | 1.67             | 3.00             | 0.40            | 2.83                | 2.83               | 2.83               | 0.00              | 1.88               | 1.83              | 2.27              | 0.12             | Moderate                    |
| <i>Selene setapinnis</i>          | Species                   | 2.81              | 1.67             | 3.00             | 0.40            | 2.83                | 2.83               | 2.83               | 0.00              | 1.88               | 1.83              | 2.27              | 0.12             | Moderate                    |
| <i>Selene vomer</i>               | Genus                     | 2.71              | 1.67             | 3.00             | 0.46            | 2.83                | 2.83               | 2.83               | 0.00              | 1.91               | 1.83              | 2.27              | 0.15             | Moderate                    |
| <i>Seriola rivoliana</i>          | Genus                     | 2.39              | 1.33             | 3.00             | 0.55            | 2.71                | 2.71               | 2.71               | 0.00              | 1.89               | 1.71              | 2.39              | 0.22             | Moderate                    |
| <i>Sparisoma amplum</i>           | Genus                     | 2.55              | 1.33             | 3.00             | 0.53            | 2.57                | 2.57               | 2.57               | 0.00              | 1.71               | 1.57              | 2.29              | 0.21             | Low                         |
| <i>Sparisoma axillare</i>         | Genus                     | 2.54              | 1.33             | 3.00             | 0.53            | 2.43                | 2.43               | 2.43               | 0.00              | 1.58               | 1.43              | 2.20              | 0.22             | Low                         |
| <i>Sparisoma frondosum</i>        | Genus                     | 2.55              | 1.33             | 3.00             | 0.54            | 2.43                | 2.43               | 2.43               | 0.00              | 1.58               | 1.43              | 2.20              | 0.22             | Low                         |
| <i>Sphyræna guachancho</i>        | Genus                     | 2.31              | 1.33             | 3.00             | 0.54            | 2.57                | 2.57               | 2.57               | 0.00              | 1.78               | 1.57              | 2.29              | 0.23             | Low                         |
| <i>Sphyrna lewini</i>             | Species                   | 1.08              | 1.00             | 1.33             | 0.14            | 2.57                | 2.57               | 2.57               | 0.00              | 2.48               | 2.29              | 2.54              | 0.11             | High                        |
| <i>Syacium micrurum</i>           | Genus                     | 2.72              | 1.67             | 3.00             | 0.46            | 2.50                | 2.50               | 2.50               | 0.00              | 1.58               | 1.50              | 2.01              | 0.18             | Low                         |
| <i>Syacium papillosum</i>         | Genus                     | 2.73              | 1.67             | 3.00             | 0.46            | 2.33                | 2.33               | 2.33               | 0.00              | 1.42               | 1.33              | 1.89              | 0.19             | Low                         |
| <i>Synodus foetens</i>            | Genus                     | 2.77              | 1.67             | 3.00             | 0.44            | 2.43                | 2.43               | 2.43               | 0.00              | 1.50               | 1.43              | 1.95              | 0.17             | Low                         |
| <i>Synodus intermedius</i>        | Genus                     | 2.79              | 1.67             | 3.00             | 0.41            | 2.43                | 2.43               | 2.43               | 0.00              | 1.49               | 1.43              | 1.95              | 0.15             | Low                         |
| <i>Thalassophryne nattereri</i>   | Family                    | 2.51              | 1.33             | 3.00             | 0.55            | 2.43                | 2.43               | 2.43               | 0.00              | 1.59               | 1.43              | 2.20              | 0.24             | Low                         |
| <i>Trachinocephalus myops</i>     | Family                    | 2.77              | 1.67             | 3.00             | 0.43            | 2.43                | 2.43               | 2.43               | 0.00              | 1.50               | 1.43              | 1.95              | 0.16             | Low                         |
| <i>Trichiurus lepturus</i>        | Species                   | 1.75              | 1.33             | 2.33             | 0.25            | 2.67                | 2.67               | 2.67               | 0.00              | 2.10               | 1.80              | 2.36              | 0.13             | Moderate                    |
| <i>Ulaema lefroyi</i>             | Family                    | 2.78              | 1.67             | 3.00             | 0.42            | 2.71                | 2.71               | 2.71               | 0.00              | 1.77               | 1.71              | 2.17              | 0.14             | Low                         |
| <i>Uraspis secunda</i>            | Genus                     | 2.74              | 1.67             | 3.00             | 0.44            | 2.67                | 2.67               | 2.67               | 0.00              | 1.74               | 1.67              | 2.13              | 0.15             | Low                         |

## PSA r only – PE

| Species                            | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|------------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Acanthurus bahianus</i>         | Species                   | 2.24              | 1.33             | 2.67             | 0.54            | 2.57                | 2.57               | 2.57               | 0.00              | 1.81               | 1.61              | 2.29              | 0.27             | Moderate                    |
| <i>Acanthurus chirurgus</i>        | Species                   | 2.30              | 1.33             | 2.67             | 0.51            | 2.57                | 2.57               | 2.57               | 0.00              | 1.78               | 1.61              | 2.29              | 0.25             | Low                         |
| <i>Acanthurus coeruleus</i>        | Species                   | 2.24              | 1.33             | 2.67             | 0.52            | 2.57                | 2.57               | 2.57               | 0.00              | 1.80               | 1.61              | 2.29              | 0.26             | Moderate                    |
| <i>Achirus lineatus</i>            | Genus                     | 2.66              | 1.33             | 3.00             | 0.50            | 2.29                | 2.29               | 2.29               | 0.00              | 1.40               | 1.29              | 2.10              | 0.22             | Low                         |
| <i>Aetobatus narinari</i>          | Family                    | 1.87              | 1.00             | 3.00             | 0.56            | 2.57                | 2.57               | 2.57               | 0.00              | 1.99               | 1.57              | 2.54              | 0.30             | Moderate                    |
| <i>Albula vulpes</i>               | Species                   | 2.38              | 1.33             | 3.00             | 0.56            | 2.38                | 2.38               | 2.38               | 0.00              | 1.59               | 1.38              | 2.16              | 0.26             | Low                         |
| <i>Alectis ciliaris</i>            | Genus                     | 2.51              | 1.33             | 3.00             | 0.53            | 2.43                | 2.43               | 2.43               | 0.00              | 1.58               | 1.43              | 2.20              | 0.22             | Low                         |
| <i>Alphestes afer</i>              | Family                    | 2.31              | 1.33             | 3.00             | 0.57            | 2.75                | 2.75               | 2.75               | 0.00              | 1.95               | 1.75              | 2.42              | 0.24             | Moderate                    |
| <i>Aluterus monoceros</i>          | Family                    | 2.75              | 1.67             | 3.00             | 0.46            | 2.43                | 2.43               | 2.43               | 0.00              | 1.51               | 1.43              | 1.95              | 0.18             | Low                         |
| <i>Anisotremus surinamensis</i>    | Genus                     | 2.26              | 1.32             | 3.00             | 0.59            | 2.86                | 2.86               | 2.86               | 0.00              | 2.07               | 1.86              | 2.51              | 0.25             | Moderate                    |
| <i>Anisotremus virginicus</i>      | Genus                     | 2.29              | 1.00             | 3.00             | 0.59            | 2.86                | 2.86               | 2.86               | 0.00              | 2.06               | 1.86              | 2.73              | 0.25             | Moderate                    |
| <i>Archosargus probatocephalus</i> | Species                   | 2.67              | 1.67             | 3.00             | 0.39            | 2.86                | 2.86               | 2.86               | 0.00              | 1.92               | 1.86              | 2.29              | 0.12             | Moderate                    |
| <i>Archosargus rhomboidalis</i>    | Species                   | 2.98              | 3.00             | 3.00             | 0.14            | 2.86                | 2.86               | 2.86               | 0.00              | 1.86               | 1.86              | 1.86              | 0.04             | Moderate                    |
| <i>Auxis thazard</i>               | Species                   | 2.78              | 1.67             | 3.00             | 0.40            | 2.63                | 2.63               | 2.63               | 0.00              | 1.68               | 1.63              | 2.10              | 0.13             | Low                         |
| <i>Bagre bagre</i>                 | Species                   | 2.24              | 1.33             | 3.00             | 0.54            | 2.38                | 2.38               | 2.38               | 0.00              | 1.64               | 1.38              | 2.16              | 0.28             | Low                         |
| <i>Bagre marinus</i>               | Species                   | 2.26              | 1.33             | 3.00             | 0.58            | 2.38                | 2.38               | 2.38               | 0.00              | 1.64               | 1.38              | 2.16              | 0.29             | Low                         |
| <i>Bothus maculiferus</i>          | Genus                     | 2.68              | 1.67             | 3.00             | 0.48            | 2.43                | 2.43               | 2.43               | 0.00              | 1.53               | 1.43              | 1.95              | 0.19             | Low                         |
| <i>Brachygenys chrysargyreum</i>   | Genus                     | 2.41              | 1.33             | 3.00             | 0.53            | 2.63                | 2.63               | 2.63               | 0.00              | 1.79               | 1.63              | 2.33              | 0.24             | Low                         |
| <i>Calamus penna</i>               | Genus                     | 2.39              | 1.33             | 3.00             | 0.48            | 2.57                | 2.57               | 2.57               | 0.00              | 1.74               | 1.57              | 2.29              | 0.21             | Low                         |
| <i>Calamus pennatula</i>           | Genus                     | 2.39              | 1.33             | 3.00             | 0.49            | 2.57                | 2.57               | 2.57               | 0.00              | 1.74               | 1.57              | 2.29              | 0.22             | Low                         |
| <i>Caranx bartholomaei</i>         | Family                    | 2.75              | 1.67             | 3.00             | 0.42            | 2.50                | 2.50               | 2.50               | 0.00              | 1.57               | 1.50              | 2.01              | 0.15             | Low                         |
| <i>Caranx crysos</i>               | Species                   | 2.68              | 1.33             | 3.00             | 0.44            | 2.50                | 2.50               | 2.50               | 0.00              | 1.59               | 1.50              | 2.24              | 0.17             | Low                         |
| <i>Caranx hippos</i>               | Species                   | 2.83              | 1.67             | 3.00             | 0.34            | 2.43                | 2.43               | 2.43               | 0.00              | 1.47               | 1.43              | 1.95              | 0.12             | Low                         |
| <i>Caranx latus</i>                | Genus                     | 2.60              | 1.33             | 3.00             | 0.47            | 2.43                | 2.43               | 2.43               | 0.00              | 1.55               | 1.43              | 2.20              | 0.20             | Low                         |
| <i>Carcharhinus acronotus</i>      | Species                   | 1.59              | 1.33             | 2.02             | 0.33            | 2.25                | 2.25               | 2.25               | 0.00              | 1.90               | 1.59              | 2.08              | 0.24             | Moderate                    |
| <i>Carcharhinus limbatus</i>       | Family                    | 1.46              | 1.33             | 2.00             | 0.26            | 2.25                | 2.25               | 2.25               | 0.00              | 1.99               | 1.60              | 2.08              | 0.18             | Moderate                    |
| <i>Cathorops spixii</i>            | Family                    | 2.27              | 1.00             | 3.00             | 0.60            | 2.38                | 2.38               | 2.38               | 0.00              | 1.64               | 1.38              | 2.43              | 0.30             | Low                         |
| <i>Centropomus parallelus</i>      | Genus                     | 2.56              | 1.33             | 3.00             | 0.52            | 2.50                | 2.50               | 2.50               | 0.00              | 1.63               | 1.50              | 2.24              | 0.21             | Low                         |
| <i>Cephalopholis fulva</i>         | Species                   | 2.47              | 1.33             | 3.00             | 0.48            | 2.75                | 2.75               | 2.75               | 0.00              | 1.88               | 1.75              | 2.42              | 0.19             | Moderate                    |
| <i>Cetengraulis edentulus</i>      | Species                   | 2.75              | 1.67             | 3.00             | 0.43            | 2.50                | 2.50               | 2.50               | 0.00              | 1.57               | 1.50              | 2.01              | 0.15             | Low                         |
| <i>Chaetodipterus faber</i>        | Species                   | 2.47              | 1.33             | 3.00             | 0.51            | 2.57                | 2.57               | 2.57               | 0.00              | 1.72               | 1.57              | 2.29              | 0.21             | Low                         |

| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Chaetodon striatus</i>         | Genus                     | 2.82              | 1.67             | 3.00             | 0.41            | 2.57                | 2.57               | 2.57               | 0.00              | 1.63               | 1.57              | 2.06              | 0.15             | Low                         |
| <i>Chloroscombrus chrysurus</i>   | Species                   | 2.75              | 1.67             | 3.00             | 0.42            | 2.57                | 2.57               | 2.57               | 0.00              | 1.64               | 1.57              | 2.06              | 0.15             | Low                         |
| <i>Conodon nobilis</i>            | Family                    | 2.39              | 1.33             | 3.00             | 0.55            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.63              | 2.33              | 0.24             | Moderate                    |
| <i>Cyclopsetta chittendeni</i>    | Species                   | 2.76              | 1.67             | 3.00             | 0.44            | 2.14                | 2.14               | 2.14               | 0.00              | 1.23               | 1.14              | 1.76              | 0.20             | Low                         |
| <i>Cynoscion leiarchus</i>        | Species                   | 2.54              | 1.33             | 3.00             | 0.47            | 2.63                | 2.63               | 2.63               | 0.00              | 1.75               | 1.63              | 2.33              | 0.17             | Low                         |
| <i>Cynoscion virescens</i>        | Genus                     | 2.33              | 1.33             | 3.00             | 0.52            | 2.63                | 2.63               | 2.63               | 0.00              | 1.82               | 1.63              | 2.33              | 0.22             | Moderate                    |
| <i>Dactylopterus volitans</i>     | Family                    | 2.54              | 1.33             | 3.00             | 0.58            | 2.38                | 2.38               | 2.38               | 0.00              | 1.54               | 1.38              | 2.16              | 0.26             | Low                         |
| <i>Decapterus macarellus</i>      | Species                   | 2.90              | 1.67             | 3.00             | 0.29            | 2.63                | 2.63               | 2.63               | 0.00              | 1.65               | 1.63              | 2.10              | 0.09             | Low                         |
| <i>Diapterus auratus</i>          | Genus                     | 2.86              | 1.67             | 3.00             | 0.36            | 2.57                | 2.57               | 2.57               | 0.00              | 1.61               | 1.57              | 2.06              | 0.12             | Low                         |
| <i>Diapterus rhombeus</i>         | Species                   | 2.89              | 1.67             | 3.00             | 0.32            | 2.57                | 2.57               | 2.57               | 0.00              | 1.60               | 1.57              | 2.06              | 0.11             | Low                         |
| <i>Echeneis naucrates</i>         | Order                     | 2.43              | 1.33             | 3.00             | 0.56            | 2.38                | 2.38               | 2.38               | 0.00              | 1.57               | 1.38              | 2.16              | 0.26             | Low                         |
| <i>Elops saurus</i>               | Species                   | 2.40              | 1.33             | 3.00             | 0.59            | 2.63                | 2.63               | 2.63               | 0.00              | 1.81               | 1.63              | 2.33              | 0.25             | Moderate                    |
| <i>Epinephelus adscensionis</i>   | Species                   | 2.22              | 1.33             | 2.67             | 0.43            | 2.75                | 2.75               | 2.75               | 0.00              | 1.95               | 1.78              | 2.42              | 0.18             | Moderate                    |
| <i>Eucinostomus gula</i>          | Species                   | 2.88              | 1.67             | 3.00             | 0.31            | 2.57                | 2.57               | 2.57               | 0.00              | 1.60               | 1.57              | 2.06              | 0.10             | Low                         |
| <i>Eugerres brasilianus</i>       | Species                   | 2.72              | 1.67             | 3.00             | 0.44            | 2.57                | 2.57               | 2.57               | 0.00              | 1.65               | 1.57              | 2.06              | 0.16             | Low                         |
| <i>Euthynnus alletteratus</i>     | Species                   | 2.31              | 1.33             | 3.00             | 0.46            | 2.50                | 2.50               | 2.50               | 0.00              | 1.70               | 1.50              | 2.24              | 0.20             | Low                         |
| <i>Fistularia petimba</i>         | Order                     | 2.61              | 1.33             | 3.00             | 0.54            | 2.43                | 2.43               | 2.43               | 0.00              | 1.56               | 1.43              | 2.20              | 0.22             | Low                         |
| <i>Genidens genidens</i>          | Genus                     | 1.98              | 1.00             | 2.68             | 0.51            | 2.38                | 2.38               | 2.38               | 0.00              | 1.77               | 1.41              | 2.43              | 0.29             | Low                         |
| <i>Gymnothorax funebris</i>       | Family                    | 1.76              | 1.00             | 3.00             | 0.53            | 2.43                | 2.43               | 2.43               | 0.00              | 1.94               | 1.43              | 2.46              | 0.32             | Moderate                    |
| <i>Gymnothorax ocellatus</i>      | Family                    | 1.77              | 1.00             | 2.67             | 0.53            | 2.43                | 2.43               | 2.43               | 0.00              | 1.93               | 1.47              | 2.46              | 0.31             | Moderate                    |
| <i>Gymnothorax vicinus</i>        | Family                    | 1.76              | 1.00             | 2.67             | 0.53            | 2.43                | 2.43               | 2.43               | 0.00              | 1.94               | 1.47              | 2.46              | 0.32             | Moderate                    |
| <i>Haemulon aurolineatum</i>      | Species                   | 2.60              | 1.33             | 3.00             | 0.42            | 2.75                | 2.75               | 2.75               | 0.00              | 1.84               | 1.75              | 2.42              | 0.15             | Moderate                    |
| <i>Haemulon parra</i>             | Species                   | 2.47              | 1.33             | 3.00             | 0.49            | 2.75                | 2.75               | 2.75               | 0.00              | 1.88               | 1.75              | 2.42              | 0.20             | Moderate                    |
| <i>Haemulon plumieri</i>          | Species                   | 2.38              | 1.33             | 3.00             | 0.47            | 2.75                | 2.75               | 2.75               | 0.00              | 1.91               | 1.75              | 2.42              | 0.20             | Moderate                    |
| <i>Haemulon steindachneri</i>     | Genus                     | 2.38              | 1.33             | 3.00             | 0.53            | 2.75                | 2.75               | 2.75               | 0.00              | 1.92               | 1.75              | 2.42              | 0.22             | Moderate                    |
| <i>Haemulopsis corvinaeformis</i> | Genus                     | 2.60              | 1.33             | 3.00             | 0.47            | 2.75                | 2.75               | 2.75               | 0.00              | 1.85               | 1.75              | 2.42              | 0.17             | Moderate                    |
| <i>Holacanthus ciliaris</i>       | Family                    | 2.16              | 1.00             | 3.00             | 0.58            | 2.57                | 2.57               | 2.57               | 0.00              | 1.85               | 1.57              | 2.54              | 0.29             | Moderate                    |
| <i>Holacanthus tricolor</i>       | Family                    | 2.17              | 1.00             | 3.00             | 0.60            | 2.57                | 2.57               | 2.57               | 0.00              | 1.85               | 1.57              | 2.54              | 0.29             | Moderate                    |
| <i>Holocentrus adscensionis</i>   | Species                   | 2.93              | 1.67             | 3.00             | 0.27            | 2.50                | 2.50               | 2.50               | 0.00              | 1.52               | 1.50              | 2.01              | 0.10             | Low                         |
| <i>Hypanus americanus</i>         | Genus                     | 2.07              | 1.33             | 3.00             | 0.51            | 2.43                | 2.43               | 2.43               | 0.00              | 1.76               | 1.43              | 2.20              | 0.26             | Low                         |
| <i>Lactophrys trigonus</i>        | Order                     | 2.58              | 1.33             | 3.00             | 0.55            | 2.50                | 2.50               | 2.50               | 0.00              | 1.64               | 1.50              | 2.24              | 0.23             | Low                         |
| <i>Larimus breviceps</i>          | Genus                     | 2.56              | 1.33             | 3.00             | 0.54            | 2.63                | 2.63               | 2.63               | 0.00              | 1.76               | 1.63              | 2.33              | 0.20             | Low                         |
| <i>Lutjanus analis</i>            | Species                   | 1.94              | 1.33             | 2.67             | 0.35            | 2.75                | 2.75               | 2.75               | 0.00              | 2.07               | 1.78              | 2.42              | 0.18             | Moderate                    |

| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Lutjanus apodus</i>            | Species                   | 2.28              | 1.33             | 3.00             | 0.50            | 2.75                | 2.75               | 2.75               | 0.00              | 1.95               | 1.75              | 2.42              | 0.20             | Moderate                    |
| <i>Lutjanus jocu</i>              | Species                   | 1.79              | 1.00             | 2.67             | 0.36            | 2.75                | 2.75               | 2.75               | 0.00              | 2.15               | 1.78              | 2.66              | 0.21             | Moderate                    |
| <i>Lutjanus synagris</i>          | Species                   | 2.66              | 1.67             | 3.00             | 0.40            | 2.63                | 2.63               | 2.63               | 0.00              | 1.70               | 1.63              | 2.10              | 0.12             | Low                         |
| <i>Lycengraulis grossidens</i>    | Species                   | 2.79              | 1.67             | 3.00             | 0.41            | 2.50                | 2.50               | 2.50               | 0.00              | 1.56               | 1.50              | 2.01              | 0.15             | Low                         |
| <i>Macrodon ancylodon</i>         | Species                   | 2.56              | 1.33             | 3.00             | 0.48            | 2.63                | 2.63               | 2.63               | 0.00              | 1.74               | 1.63              | 2.33              | 0.17             | Low                         |
| <i>Menticirrhus americanus</i>    | Species                   | 2.52              | 1.33             | 3.00             | 0.52            | 2.63                | 2.63               | 2.63               | 0.00              | 1.76               | 1.63              | 2.33              | 0.19             | Low                         |
| <i>Menticirrhus littoralis</i>    | Genus                     | 2.46              | 1.33             | 3.00             | 0.54            | 2.63                | 2.63               | 2.63               | 0.00              | 1.78               | 1.63              | 2.33              | 0.21             | Low                         |
| <i>Micropogonias furnieri</i>     | Species                   | 2.50              | 2.00             | 3.00             | 0.38            | 2.63                | 2.63               | 2.63               | 0.00              | 1.74               | 1.63              | 1.91              | 0.13             | Low                         |
| <i>Mugil curema</i>               | Species                   | 2.42              | 1.33             | 3.00             | 0.50            | 2.75                | 2.75               | 2.75               | 0.00              | 1.90               | 1.75              | 2.42              | 0.18             | Moderate                    |
| <i>Mulloidichthys martinicus</i>  | Species                   | 2.85              | 1.67             | 3.00             | 0.36            | 2.63                | 2.63               | 2.63               | 0.00              | 1.67               | 1.63              | 2.10              | 0.12             | Low                         |
| <i>Nebris microps</i>             | Family                    | 2.44              | 1.33             | 3.00             | 0.55            | 2.63                | 2.63               | 2.63               | 0.00              | 1.79               | 1.63              | 2.33              | 0.23             | Low                         |
| <i>Ocyurus chrysurus</i>          | Species                   | 2.30              | 1.33             | 2.67             | 0.43            | 2.88                | 2.88               | 2.88               | 0.00              | 2.04               | 1.90              | 2.51              | 0.17             | Moderate                    |
| <i>Oligoplites palometa</i>       | Family                    | 2.62              | 1.33             | 3.00             | 0.52            | 2.75                | 2.75               | 2.75               | 0.00              | 1.86               | 1.75              | 2.42              | 0.18             | Moderate                    |
| <i>Opisthonema oglinum</i>        | Species                   | 2.79              | 1.67             | 3.00             | 0.39            | 2.63                | 2.63               | 2.63               | 0.00              | 1.68               | 1.63              | 2.10              | 0.12             | Low                         |
| <i>Orthopristis rubra</i>         | Species                   | 2.52              | 1.33             | 3.00             | 0.49            | 2.50                | 2.50               | 2.50               | 0.00              | 1.64               | 1.50              | 2.24              | 0.21             | Low                         |
| <i>Paralonchurus brasiliensis</i> | Family                    | 2.42              | 1.33             | 3.00             | 0.54            | 2.63                | 2.63               | 2.63               | 0.00              | 1.80               | 1.63              | 2.33              | 0.22             | Low                         |
| <i>Peprius paru</i>               | Genus                     | 2.80              | 1.67             | 3.00             | 0.41            | 2.43                | 2.43               | 2.43               | 0.00              | 1.49               | 1.43              | 1.95              | 0.15             | Low                         |
| <i>Polydactylus virginicus</i>    | Genus                     | 2.52              | 1.33             | 3.00             | 0.54            | 2.50                | 2.50               | 2.50               | 0.00              | 1.65               | 1.50              | 2.24              | 0.22             | Low                         |
| <i>Pomatomus saltatrix</i>        | Species                   | 2.46              | 1.33             | 3.00             | 0.45            | 2.38                | 2.38               | 2.38               | 0.00              | 1.53               | 1.38              | 2.16              | 0.19             | Low                         |
| <i>Priacanthus arenatus</i>       | Species                   | 2.84              | 1.67             | 3.00             | 0.35            | 2.50                | 2.50               | 2.50               | 0.00              | 1.54               | 1.50              | 2.01              | 0.12             | Low                         |
| <i>Prionotus punctatus</i>        | Species                   | 2.36              | 1.33             | 3.00             | 0.50            | 2.38                | 2.38               | 2.38               | 0.00              | 1.58               | 1.38              | 2.16              | 0.24             | Low                         |
| <i>Pseudupeneus maculatus</i>     | Species                   | 2.88              | 1.67             | 3.00             | 0.32            | 2.50                | 2.50               | 2.50               | 0.00              | 1.53               | 1.50              | 2.01              | 0.11             | Low                         |
| <i>Rachycentron canadum</i>       | Species                   | 2.26              | 1.33             | 3.00             | 0.52            | 2.50                | 2.50               | 2.50               | 0.00              | 1.73               | 1.50              | 2.24              | 0.24             | Low                         |
| <i>Rhizoprionodon porosus</i>     | Species                   | 1.85              | 1.33             | 2.33             | 0.37            | 2.38                | 2.38               | 2.38               | 0.00              | 1.82               | 1.53              | 2.16              | 0.23             | Moderate                    |
| <i>Scarus coelestinus</i>         | Genus                     | 2.32              | 1.33             | 3.00             | 0.56            | 2.71                | 2.71               | 2.71               | 0.00              | 1.91               | 1.71              | 2.39              | 0.23             | Moderate                    |
| <i>Sciades proops</i>             | Species                   | 2.50              | 1.33             | 3.00             | 0.52            | 2.38                | 2.38               | 2.38               | 0.00              | 1.53               | 1.38              | 2.16              | 0.23             | Low                         |
| <i>Scomberomorus brasiliensis</i> | Species                   | 1.83              | 1.33             | 2.33             | 0.39            | 2.50                | 2.50               | 2.50               | 0.00              | 1.93               | 1.64              | 2.24              | 0.24             | Moderate                    |
| <i>Scomberomorus cavalla</i>      | Species                   | 1.67              | 1.33             | 2.00             | 0.34            | 2.50                | 2.50               | 2.50               | 0.00              | 2.02               | 1.80              | 2.24              | 0.22             | Moderate                    |
| <i>Scomberomorus regalis</i>      | Species                   | 2.02              | 1.33             | 3.00             | 0.45            | 2.50                | 2.50               | 2.50               | 0.00              | 1.83               | 1.50              | 2.24              | 0.23             | Moderate                    |
| <i>Scorpaena plumieri</i>         | Genus                     | 2.60              | 1.33             | 3.00             | 0.47            | 2.38                | 2.38               | 2.38               | 0.00              | 1.49               | 1.38              | 2.16              | 0.20             | Low                         |
| <i>Selar crumenophthalmus</i>     | Species                   | 2.89              | 1.67             | 3.00             | 0.32            | 2.50                | 2.50               | 2.50               | 0.00              | 1.53               | 1.50              | 2.01              | 0.11             | Low                         |
| <i>Selene spixii</i>              | Genus                     | 2.74              | 1.67             | 3.00             | 0.44            | 2.71                | 2.71               | 2.71               | 0.00              | 1.78               | 1.71              | 2.17              | 0.15             | Low                         |
| <i>Selene vomer</i>               | Genus                     | 2.71              | 1.67             | 3.00             | 0.46            | 2.71                | 2.71               | 2.71               | 0.00              | 1.79               | 1.71              | 2.17              | 0.15             | Low                         |

| Species                       | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Sparisoma chrysopteron</i> | Species                   | 2.75              | 1.67             | 3.00             | 0.44            | 2.63                | 2.63               | 2.63               | 0.00              | 1.69               | 1.63              | 2.10              | 0.14             | Low                         |
| <i>Sparisoma rubripinne</i>   | Species                   | 2.67              | 1.67             | 3.00             | 0.48            | 2.63                | 2.63               | 2.63               | 0.00              | 1.72               | 1.63              | 2.10              | 0.16             | Low                         |
| <i>Sparisoma</i> sp.          | Genus                     | 2.54              | 1.33             | 3.00             | 0.54            | 2.63                | 2.63               | 2.63               | 0.00              | 1.76               | 1.63              | 2.33              | 0.21             | Low                         |
| <i>Sphyraena guachancho</i>   | Genus                     | 2.29              | 1.33             | 3.00             | 0.54            | 2.38                | 2.38               | 2.38               | 0.00              | 1.62               | 1.38              | 2.16              | 0.26             | Low                         |
| <i>Stellifer rastrifer</i>    | Family                    | 2.44              | 1.33             | 3.00             | 0.53            | 2.75                | 2.75               | 2.75               | 0.00              | 1.90               | 1.75              | 2.42              | 0.20             | Moderate                    |
| <i>Stephanolepis hispida</i>  | Species                   | 2.77              | 1.67             | 3.00             | 0.43            | 2.50                | 2.50               | 2.50               | 0.00              | 1.57               | 1.50              | 2.01              | 0.16             | Low                         |
| <i>Syacium papillosum</i>     | Genus                     | 2.71              | 1.67             | 3.00             | 0.47            | 2.29                | 2.29               | 2.29               | 0.00              | 1.39               | 1.29              | 1.85              | 0.20             | Low                         |
| <i>Trachinocephalus myops</i> | Family                    | 2.79              | 1.67             | 3.00             | 0.42            | 2.38                | 2.38               | 2.38               | 0.00              | 1.44               | 1.38              | 1.92              | 0.16             | Low                         |
| <i>Trachinotus carolinus</i>  | Genus                     | 2.67              | 1.33             | 3.00             | 0.48            | 2.57                | 2.57               | 2.57               | 0.00              | 1.67               | 1.57              | 2.29              | 0.18             | Low                         |
| <i>Trachinotus goodei</i>     | Genus                     | 2.62              | 1.33             | 3.00             | 0.50            | 2.57                | 2.57               | 2.57               | 0.00              | 1.68               | 1.57              | 2.29              | 0.20             | Low                         |

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| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Achirus lineatus</i>           | Genus                     | 2.65              | 1.33             | 3.00             | 0.52            | 2.29                | 2.29               | 2.29               | 0.00              | 1.41               | 1.29              | 2.10              | 0.23             | Low                         |
| <i>Albula vulpes</i>              | Species                   | 2.41              | 1.33             | 3.00             | 0.56            | 2.38                | 2.38               | 2.38               | 0.00              | 1.58               | 1.38              | 2.16              | 0.26             | Low                         |
| <i>Aluterus monoceros</i>         | Family                    | 2.76              | 1.67             | 3.00             | 0.46            | 2.43                | 2.43               | 2.43               | 0.00              | 1.51               | 1.43              | 1.95              | 0.18             | Low                         |
| <i>Astroscoptes y-graecum</i>     | Family                    | 2.55              | 1.33             | 3.00             | 0.53            | 2.38                | 2.38               | 2.38               | 0.00              | 1.52               | 1.38              | 2.16              | 0.23             | Low                         |
| <i>Archosargus rhomboidalis</i>   | Species                   | 2.98              | 3.00             | 3.00             | 0.14            | 2.86                | 2.86               | 2.86               | 0.00              | 1.86               | 1.86              | 1.86              | 0.04             | Moderate                    |
| <i>Bagre bagre</i>                | Species                   | 2.23              | 1.33             | 3.00             | 0.56            | 2.38                | 2.38               | 2.38               | 0.00              | 1.65               | 1.38              | 2.16              | 0.29             | Low                         |
| <i>Balistes capriscus</i>         | Species                   | 2.91              | 2.00             | 3.00             | 0.26            | 2.38                | 2.38               | 2.38               | 0.00              | 1.40               | 1.38              | 1.70              | 0.09             | Low                         |
| <i>Caranx crysos</i>              | Species                   | 2.66              | 1.33             | 3.00             | 0.45            | 2.50                | 2.50               | 2.50               | 0.00              | 1.59               | 1.50              | 2.24              | 0.17             | Low                         |
| <i>Cathorops spixii</i>           | Family                    | 2.28              | 1.33             | 3.00             | 0.59            | 2.38                | 2.38               | 2.38               | 0.00              | 1.63               | 1.38              | 2.16              | 0.29             | Low                         |
| <i>Centropomus parallelus</i>     | Genus                     | 2.56              | 1.33             | 3.00             | 0.51            | 2.50                | 2.50               | 2.50               | 0.00              | 1.63               | 1.50              | 2.24              | 0.21             | Low                         |
| <i>Chaetodipterus faber</i>       | Species                   | 2.45              | 1.33             | 3.00             | 0.56            | 2.57                | 2.57               | 2.57               | 0.00              | 1.74               | 1.57              | 2.29              | 0.24             | Low                         |
| <i>Chloroscombrus chrysurus</i>   | Species                   | 2.71              | 1.67             | 3.00             | 0.45            | 2.57                | 2.57               | 2.57               | 0.00              | 1.65               | 1.57              | 2.06              | 0.16             | Low                         |
| <i>Citharichthys arenaceus</i>    | Genus                     | 2.74              | 1.67             | 3.00             | 0.44            | 2.14                | 2.14               | 2.14               | 0.00              | 1.24               | 1.14              | 1.76              | 0.20             | Low                         |
| <i>Citharichthys macrops</i>      | Genus                     | 2.72              | 1.67             | 3.00             | 0.44            | 2.14                | 2.14               | 2.14               | 0.00              | 1.24               | 1.14              | 1.76              | 0.20             | Low                         |
| <i>Citharichthys spilopterus</i>  | Species                   | 2.77              | 1.67             | 3.00             | 0.42            | 2.14                | 2.14               | 2.14               | 0.00              | 1.23               | 1.14              | 1.76              | 0.19             | Low                         |
| <i>Conodon nobilis</i>            | Family                    | 2.34              | 1.33             | 3.00             | 0.58            | 2.62                | 2.62               | 2.62               | 0.00              | 1.83               | 1.62              | 2.33              | 0.26             | Moderate                    |
| <i>Ctenosciaena gracilicirrus</i> | Family                    | 2.44              | 1.33             | 3.00             | 0.54            | 2.62                | 2.62               | 2.62               | 0.00              | 1.79               | 1.62              | 2.33              | 0.22             | Low                         |
| <i>Cynoscion jamaicensis</i>      | Species                   | 2.65              | 1.67             | 3.00             | 0.45            | 2.62                | 2.62               | 2.62               | 0.00              | 1.71               | 1.62              | 2.10              | 0.15             | Low                         |
| <i>Cynoscion leiarchus</i>        | Species                   | 2.52              | 1.33             | 3.00             | 0.49            | 2.62                | 2.62               | 2.62               | 0.00              | 1.76               | 1.62              | 2.33              | 0.19             | Low                         |
| <i>Cynoscion microlepidotus</i>   | Species                   | 2.01              | 1.33             | 3.00             | 0.45            | 2.62                | 2.62               | 2.62               | 0.00              | 1.94               | 1.62              | 2.33              | 0.23             | Moderate                    |
| <i>Cynoscion virescens</i>        | Genus                     | 2.34              | 1.33             | 3.00             | 0.52            | 2.62                | 2.62               | 2.62               | 0.00              | 1.82               | 1.62              | 2.33              | 0.22             | Moderate                    |
| <i>Dactylopterus volitans</i>     | Family                    | 2.57              | 1.33             | 3.00             | 0.55            | 2.38                | 2.38               | 2.38               | 0.00              | 1.52               | 1.38              | 2.16              | 0.24             | Low                         |
| <i>Diapterus auratus</i>          | Genus                     | 2.86              | 1.67             | 3.00             | 0.37            | 2.57                | 2.57               | 2.57               | 0.00              | 1.61               | 1.57              | 2.06              | 0.13             | Low                         |
| <i>Diapterus rhombeus</i>         | Species                   | 2.89              | 1.67             | 3.00             | 0.33            | 2.57                | 2.57               | 2.57               | 0.00              | 1.60               | 1.57              | 2.06              | 0.11             | Low                         |
| <i>Diplectrum radiale</i>         | Genus                     | 2.49              | 1.33             | 3.00             | 0.51            | 2.50                | 2.50               | 2.50               | 0.00              | 1.65               | 1.50              | 2.24              | 0.21             | Low                         |
| <i>Echeneis naucrates</i>         | Order                     | 2.43              | 1.33             | 3.00             | 0.57            | 2.38                | 2.38               | 2.38               | 0.00              | 1.57               | 1.38              | 2.16              | 0.27             | Low                         |
| <i>Elops saurus</i>               | Species                   | 2.42              | 1.33             | 3.00             | 0.55            | 2.62                | 2.62               | 2.62               | 0.00              | 1.80               | 1.62              | 2.33              | 0.23             | Low                         |
| <i>Etropus crossotus</i>          | Species                   | 2.88              | 1.67             | 3.00             | 0.32            | 2.14                | 2.14               | 2.14               | 0.00              | 1.19               | 1.14              | 1.76              | 0.14             | Low                         |
| <i>Eucinostomus argenteus</i>     | Genus                     | 2.83              | 1.67             | 3.00             | 0.36            | 2.57                | 2.57               | 2.57               | 0.00              | 1.62               | 1.57              | 2.06              | 0.13             | Low                         |
| <i>Eucinostomus gula</i>          | Species                   | 2.87              | 1.67             | 3.00             | 0.32            | 2.57                | 2.57               | 2.57               | 0.00              | 1.60               | 1.57              | 2.06              | 0.11             | Low                         |
| <i>Eucinostomus melanopterus</i>  | Genus                     | 2.83              | 1.67             | 3.00             | 0.37            | 2.57                | 2.57               | 2.57               | 0.00              | 1.62               | 1.57              | 2.06              | 0.13             | Low                         |

| Species                           | FishLife prediction level | Mean productivity | LCI productivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI susceptibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Galeocerdo cuvier</i>          | Species                   | 1.35              | 1.00             | 2.00             | 0.20            | 2.38                | 2.38               | 2.38               | 0.00              | 2.15               | 1.70              | 2.43              | 0.15             | Moderate                    |
| <i>Genidens barbatus</i>          | Species                   | 1.68              | 1.00             | 2.67             | 0.41            | 2.25                | 2.25               | 2.25               | 0.00              | 1.84               | 1.29              | 2.36              | 0.29             | Moderate                    |
| <i>Genidens genidens</i>          | Genus                     | 1.94              | 1.00             | 2.67             | 0.51            | 2.38                | 2.38               | 2.38               | 0.00              | 1.79               | 1.41              | 2.43              | 0.30             | Low                         |
| <i>Gymnura altavela</i>           | Order                     | 1.86              | 1.00             | 3.00             | 0.57            | 2.29                | 2.29               | 2.29               | 0.00              | 1.78               | 1.29              | 2.38              | 0.34             | Low                         |
| <i>Haemulon steindachneri</i>     | Genus                     | 2.38              | 1.33             | 3.00             | 0.52            | 2.75                | 2.75               | 2.75               | 0.00              | 1.91               | 1.75              | 2.42              | 0.22             | Moderate                    |
| <i>Haemulopsis corvinaeformis</i> | Genus                     | 2.55              | 1.33             | 3.00             | 0.52            | 2.75                | 2.75               | 2.75               | 0.00              | 1.87               | 1.75              | 2.42              | 0.19             | Moderate                    |
| <i>Hemicaranx amblyrhynchus</i>   | Family                    | 2.65              | 1.65             | 3.00             | 0.49            | 2.57                | 2.57               | 2.57               | 0.00              | 1.67               | 1.57              | 2.07              | 0.18             | Low                         |
| <i>Hypanus guttatus</i>           | Genus                     | 2.05              | 1.33             | 3.00             | 0.50            | 2.29                | 2.29               | 2.29               | 0.00              | 1.65               | 1.29              | 2.10              | 0.27             | Low                         |
| <i>Hypanus say</i>                | Genus                     | 2.02              | 1.33             | 3.00             | 0.52            | 2.29                | 2.29               | 2.29               | 0.00              | 1.67               | 1.29              | 2.10              | 0.28             | Low                         |
| <i>Isopisthus parvipinnis</i>     | Family                    | 2.43              | 1.33             | 3.00             | 0.53            | 2.62                | 2.62               | 2.62               | 0.00              | 1.79               | 1.62              | 2.33              | 0.21             | Low                         |
| <i>Lagocephalus laevigatus</i>    | Genus                     | 2.86              | 1.67             | 3.00             | 0.37            | 2.38                | 2.38               | 2.38               | 0.00              | 1.42               | 1.38              | 1.92              | 0.14             | Low                         |
| <i>Larimus breviceps</i>          | Genus                     | 2.56              | 1.33             | 3.00             | 0.53            | 2.62                | 2.62               | 2.62               | 0.00              | 1.75               | 1.62              | 2.33              | 0.20             | Low                         |
| <i>Lutjanus synagris</i>          | Species                   | 2.65              | 1.67             | 3.00             | 0.41            | 2.62                | 2.62               | 2.62               | 0.00              | 1.71               | 1.62              | 2.10              | 0.13             | Low                         |
| <i>Macrodon ancylodon</i>         | Species                   | 2.53              | 1.33             | 3.00             | 0.49            | 2.62                | 2.62               | 2.62               | 0.00              | 1.75               | 1.62              | 2.33              | 0.18             | Low                         |
| <i>Menticirrhus americanus</i>    | Species                   | 2.53              | 1.33             | 3.00             | 0.52            | 2.62                | 2.62               | 2.62               | 0.00              | 1.76               | 1.62              | 2.33              | 0.20             | Low                         |
| <i>Menticirrhus littoralis</i>    | Genus                     | 2.53              | 1.33             | 3.00             | 0.52            | 2.62                | 2.62               | 2.62               | 0.00              | 1.76               | 1.62              | 2.33              | 0.20             | Low                         |
| <i>Micropogonias furnieri</i>     | Species                   | 2.51              | 2.00             | 3.00             | 0.39            | 2.62                | 2.62               | 2.62               | 0.00              | 1.74               | 1.62              | 1.91              | 0.14             | Low                         |
| <i>Mugil curema</i>               | Species                   | 2.41              | 1.33             | 3.00             | 0.49            | 2.75                | 2.75               | 2.75               | 0.00              | 1.90               | 1.75              | 2.42              | 0.18             | Moderate                    |
| <i>Mycteroperca rubra</i>         | Species                   | 2.10              | 1.33             | 3.00             | 0.48            | 2.75                | 2.75               | 2.75               | 0.00              | 2.02               | 1.75              | 2.42              | 0.22             | Moderate                    |
| <i>Oligoplites saliens</i>        | Family                    | 2.66              | 1.33             | 3.00             | 0.50            | 2.75                | 2.75               | 2.75               | 0.00              | 1.84               | 1.75              | 2.42              | 0.18             | Moderate                    |
| <i>Ophichthus gomesii</i>         | Genus                     | 2.09              | 1.33             | 3.00             | 0.53            | 2.43                | 2.43               | 2.43               | 0.00              | 1.75               | 1.43              | 2.20              | 0.27             | Low                         |
| <i>Opisthonema oglinum</i>        | Species                   | 2.81              | 1.67             | 3.00             | 0.37            | 2.62                | 2.62               | 2.62               | 0.00              | 1.67               | 1.62              | 2.10              | 0.12             | Low                         |
| <i>Orthopristis rubra</i>         | Species                   | 2.54              | 1.33             | 3.00             | 0.49            | 2.50                | 2.50               | 2.50               | 0.00              | 1.63               | 1.50              | 2.24              | 0.20             | Low                         |
| <i>Paralichthys orbignyanus</i>   | Species                   | 2.53              | 1.33             | 3.00             | 0.51            | 2.43                | 2.43               | 2.43               | 0.00              | 1.57               | 1.43              | 2.20              | 0.22             | Low                         |
| <i>Paralonchurus brasiliensis</i> | Species                   | 2.46              | 1.33             | 3.00             | 0.52            | 2.62                | 2.62               | 2.62               | 0.00              | 1.78               | 1.62              | 2.33              | 0.21             | Low                         |
| <i>Pellona harroweri</i>          | Genus                     | 2.69              | 1.67             | 3.00             | 0.49            | 2.62                | 2.62               | 2.62               | 0.00              | 1.72               | 1.62              | 2.10              | 0.18             | Low                         |
| <i>Peprilus paru</i>              | Genus                     | 2.82              | 1.67             | 3.00             | 0.39            | 2.43                | 2.43               | 2.43               | 0.00              | 1.48               | 1.43              | 1.95              | 0.15             | Low                         |
| <i>Pomatomus saltatrix</i>        | Species                   | 2.49              | 1.33             | 3.00             | 0.44            | 2.38                | 2.38               | 2.38               | 0.00              | 1.52               | 1.38              | 2.16              | 0.19             | Low                         |
| <i>Porichthys porosissimus</i>    | Species                   | 2.56              | 1.33             | 3.00             | 0.51            | 2.38                | 2.38               | 2.38               | 0.00              | 1.52               | 1.38              | 2.16              | 0.22             | Low                         |
| <i>Prionotus punctatus</i>        | Species                   | 2.34              | 1.33             | 3.00             | 0.51            | 2.38                | 2.38               | 2.38               | 0.00              | 1.59               | 1.38              | 2.16              | 0.24             | Low                         |
| <i>Pseudobatos percellens</i>     | Genus                     | 1.73              | 1.00             | 2.67             | 0.43            | 2.43                | 2.43               | 2.43               | 0.00              | 1.94               | 1.47              | 2.46              | 0.27             | Moderate                    |
| <i>Rhizoprionodon lalandii</i>    | Genus                     | 1.84              | 1.33             | 2.33             | 0.41            | 2.38                | 2.38               | 2.38               | 0.00              | 1.83               | 1.53              | 2.16              | 0.25             | Moderate                    |
| <i>Rhizoprionodon porosus</i>     | Species                   | 1.86              | 1.33             | 2.33             | 0.39            | 2.38                | 2.38               | 2.38               | 0.00              | 1.82               | 1.53              | 2.16              | 0.23             | Moderate                    |

| Species                           | FishLife prediction level | Mean productivity | LCI prouductivity | UCI productivity | SD productivity | Mean susceptibility | LCI susceptibility | UCI suscpetibility | SD susceptibility | Mean vulnerability | LCI vulnerability | UCI vulnerability | SD vulnerability | Mean vulnerability category |
|-----------------------------------|---------------------------|-------------------|-------------------|------------------|-----------------|---------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-----------------------------|
| <i>Sardinella brasiliensis</i>    | Species                   | 2.87              | 2.00              | 3.00             | 0.29            | 2.50                | 2.50               | 2.50               | 0.00              | 1.53               | 1.50              | 1.80              | 0.09             | Low                         |
| <i>Scomberomorus brasiliensis</i> | Species                   | 1.83              | 1.33              | 2.33             | 0.38            | 2.50                | 2.50               | 2.50               | 0.00              | 1.93               | 1.64              | 2.24              | 0.23             | Moderate                    |
| <i>Scorpaena plumieri</i>         | Genus                     | 2.63              | 1.33              | 3.00             | 0.47            | 2.38                | 2.38               | 2.38               | 0.00              | 1.49               | 1.38              | 2.16              | 0.19             | Low                         |
| <i>Selene setapinnis</i>          | Species                   | 2.85              | 1.67              | 3.00             | 0.37            | 2.71                | 2.71               | 2.71               | 0.00              | 1.76               | 1.71              | 2.17              | 0.12             | Low                         |
| <i>Selene vomer</i>               | Genus                     | 2.71              | 1.67              | 3.00             | 0.47            | 2.71                | 2.71               | 2.71               | 0.00              | 1.79               | 1.71              | 2.17              | 0.16             | Low                         |
| <i>Sphyraena guachancho</i>       | Genus                     | 2.30              | 1.33              | 3.00             | 0.53            | 2.38                | 2.38               | 2.38               | 0.00              | 1.61               | 1.38              | 2.16              | 0.25             | Low                         |
| <i>Sphyrna lewini</i>             | Species                   | 1.09              | 1.00              | 1.33             | 0.15            | 2.50                | 2.50               | 2.50               | 0.00              | 2.43               | 2.24              | 2.50              | 0.11             | High                        |
| <i>Sphyrna zygaena</i>            | Genus                     | 1.25              | 1.00              | 1.67             | 0.18            | 2.25                | 2.25               | 2.25               | 0.00              | 2.15               | 1.83              | 2.36              | 0.15             | Moderate                    |
| <i>Stellifer brasiliensis</i>     | Family                    | 2.42              | 1.33              | 3.00             | 0.56            | 2.75                | 2.75               | 2.75               | 0.00              | 1.91               | 1.75              | 2.42              | 0.21             | Moderate                    |
| <i>Stellifer rastrifer</i>        | Family                    | 2.40              | 1.33              | 3.00             | 0.56            | 2.75                | 2.75               | 2.75               | 0.00              | 1.92               | 1.75              | 2.42              | 0.21             | Moderate                    |
| <i>Stephanolepis hispidus</i>     | Species                   | 2.76              | 1.67              | 3.00             | 0.43            | 2.50                | 2.50               | 2.50               | 0.00              | 1.57               | 1.50              | 2.01              | 0.16             | Low                         |
| <i>Syacium papillosum</i>         | Genus                     | 2.74              | 1.67              | 3.00             | 0.44            | 2.29                | 2.29               | 2.29               | 0.00              | 1.37               | 1.29              | 1.85              | 0.19             | Low                         |
| <i>Symphurus tessellatus</i>      | Genus                     | 2.60              | 1.33              | 3.00             | 0.51            | 2.29                | 2.29               | 2.29               | 0.00              | 1.42               | 1.29              | 2.10              | 0.22             | Low                         |
| <i>Synodus foetens</i>            | Genus                     | 2.81              | 1.67              | 3.00             | 0.40            | 2.50                | 2.50               | 2.50               | 0.00              | 1.56               | 1.50              | 2.01              | 0.14             | Low                         |
| <i>Trachinotus carolinus</i>      | Genus                     | 2.60              | 1.33              | 3.00             | 0.52            | 2.57                | 2.57               | 2.57               | 0.00              | 1.69               | 1.57              | 2.29              | 0.20             | Low                         |
| <i>Trichiurus lepturus</i>        | Genus                     | 1.75              | 1.33              | 2.33             | 0.26            | 2.57                | 2.57               | 2.57               | 0.00              | 2.02               | 1.71              | 2.29              | 0.14             | Moderate                    |
| <i>Trinectes paulistanus</i>      | Genus                     | 2.63              | 1.33              | 3.00             | 0.48            | 2.29                | 2.29               | 2.29               | 0.00              | 1.41               | 1.29              | 2.10              | 0.22             | Low                         |
| <i>Umbrina canosai</i>            | Species                   | 2.65              | 1.33              | 3.00             | 0.47            | 2.62                | 2.62               | 2.62               | 0.00              | 1.72               | 1.62              | 2.33              | 0.17             | Low                         |
| <i>Umbrina coroides</i>           | Genus                     | 2.38              | 1.33              | 3.00             | 0.54            | 2.62                | 2.62               | 2.62               | 0.00              | 1.81               | 1.62              | 2.33              | 0.22             | Moderate                    |
| <i>Zaptryx brevirostris</i>       | Family                    | 1.72              | 1.00              | 2.67             | 0.47            | 2.29                | 2.29               | 2.29               | 0.00              | 1.85               | 1.33              | 2.38              | 0.30             | Moderate                    |