Tagging Segment Tables

Table D20. Time series of instantaneous fishing mortality estimates (F) adjusted for live release bias. Results are for Striped bass >= 18 inches. Reporting Rate (DE) = 0.433.

### Coast Programs*

<table>
<thead>
<tr>
<th>Year</th>
<th>MADFW</th>
<th>NYOHS</th>
<th>NJDEL</th>
<th>NCCOOP</th>
</tr>
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<tbody>
<tr>
<td>1988</td>
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</tr>
<tr>
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</tr>
<tr>
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<td>-0.18</td>
<td>0.19</td>
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### Producer Area Programs

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<th>VARAP</th>
<th>Weighted** Average</th>
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<td>1995</td>
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* A coastal unweighted average of F for striped bass >= 18 inches was not provided because MADFW primarily represents fish larger than 28 inches and GOF bootstrap indicated a lack of fit for the full parameterized models of NYOHS and NCCOOP.

**- Weighting Scheme: Delaware (0.10); Maryland (0.90)
VARAP was excluded from the producer area weighted average because a GOF bootstrap analysis indicated a lack of fit for the full parameterized model.
Table D21. Time series of instantaneous fishing mortality estimates \( F \) adjusted for live release bias. Results are for Striped bass \( \geq 28 \) inches. Reporting Rate \( \text{(DE)} = 0.43 \).

### Coast Programs

<table>
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<tr>
<th>Year</th>
<th>MADFW</th>
<th>NYOHS</th>
<th>NJDEL</th>
<th>NCCOOP</th>
<th>Average</th>
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<tr>
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<td>1994</td>
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<td>1995</td>
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<td>0.07</td>
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<td>1997</td>
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<td>0.19</td>
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<td>1998</td>
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<td>0.22</td>
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<td>2000</td>
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<td>0.08</td>
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<td>2001</td>
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<td>0.22</td>
<td>0.09</td>
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### Producer Area Programs

<table>
<thead>
<tr>
<th>Year</th>
<th>DE/PA</th>
<th>MDCB</th>
<th>VARAP</th>
<th>Average</th>
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</table>

* NCCOOP was excluded from the coastal weighted average because a GOF bootstrap analysis indicated a lack of fit for the full parameterized model.

** - Total mortality estimates \( Z \) at or below Natural mortality estimate of 0.15.

*** - Weighting Scheme: Delaware (0.10); Maryland (0.90)

* VARAP was excluded from the producer area weighted average because a GOF bootstrap analysis indicated a lack of fit for the full parameterized model.
Table D22. Survival (S) and fishing mortality (F) rates of striped bass >= 18 inches including estimates adjusted (adj.) for reporting rate (0.433), bias from live releases, and hooking mortality (0.08).

**Coast Programs**

**Massachusetts**

C-hat adjustment = 1.727; bootstrap GOF probability = 0.44 for the full parameterized model.

<table>
<thead>
<tr>
<th>Year</th>
<th>S(unadj.)</th>
<th>F(unadj.)</th>
<th>Recovery Rate</th>
<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL F(adj.)</th>
<th>95%UCL F(adj.)</th>
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<tbody>
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<td>1992</td>
<td>0.798</td>
<td>0.076</td>
<td>0.052</td>
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<td>0.050</td>
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<td>0.000</td>
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<td>0.066</td>
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**New York - Ocean Haul Seine**

bootstrap GOF probability < 0.002 for the full parameterized model.

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<th>S(unadj.)</th>
<th>F(unadj.)</th>
<th>Recovery Rate</th>
<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL F(adj.)</th>
<th>95%UCL F(adj.)</th>
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<td>0.570</td>
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New Jersey - Delaware Bay
bootstrap GOF probability = 0.35 for the full parameterized model.

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<th>F(unadj.)</th>
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<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
<th>95%UCL</th>
</tr>
</thead>
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North Carolina - Cooperative Trawl Cruise
probability < 0.001 for the full parameterized model.

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<th>Bias Live Release</th>
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### Producer Area Programs

**Delaware / Pennsylvania - Delaware River**

C-hat adjustment = 1.057; bootstrap GOF probability = 0.44 for the full parameterized model.

With trend models included:

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<th>Bias Live Release</th>
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<th>F(adj.)</th>
<th>95%LCL</th>
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With trend models excluded:

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**Maryland - Chesapeake Bay Spring Spawning Stock**

C-hat adjustment = 1.335; bootstrap GOF probability = 0.76 for the full parameterized model.

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Virginia - Rappahannock River

C-hat adjustment = 1.377; bootstrap GOF probability = 0.18 for the full parameterized model.

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<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
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<td>0.383</td>
<td>0.087</td>
<td>0.402</td>
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<td>0.647</td>
<td>0.286</td>
<td>-0.062</td>
<td>0.823</td>
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<tr>
<td>1995</td>
<td>0.688</td>
<td>0.223</td>
<td>0.076</td>
<td>0.255</td>
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<td>0.726</td>
<td>0.170</td>
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<td>0.278</td>
<td>-0.039</td>
<td>0.626</td>
<td>0.319</td>
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<td>0.537</td>
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<td>0.330</td>
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<td>0.571</td>
<td>0.411</td>
<td>0.099</td>
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<td>0.766</td>
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<td>0.427</td>
<td>0.701</td>
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<tr>
<td>1999</td>
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<td>0.961</td>
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<td>0.294</td>
<td>-0.064</td>
<td>0.352</td>
<td>0.895</td>
<td>0.555</td>
<td>1.414</td>
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<td>0.408</td>
<td>0.747</td>
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<td>0.259</td>
<td>1.203</td>
<td>0.879</td>
<td>1.684</td>
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Table D23. Survival (S) and fishing mortality (F) rates of striped bass >= 28 inches including estimates adjusted (adj.) for reporting rate (0.433), bias from live releases, and hooking mortality (0.08).

### Massachusetts

C-hat adjustment = 1.494; bootstrap GOF probability = 0.32 for the full parameterized model.

<table>
<thead>
<tr>
<th>Year</th>
<th>S(unadj.)</th>
<th>F(unadj.)</th>
<th>Rate</th>
<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
<th>95%UCL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>0.804</td>
<td>0.068</td>
<td>0.048</td>
<td>0.750</td>
<td>-0.087</td>
<td>0.880</td>
<td>-0.023</td>
<td>-0.118</td>
<td>0.083</td>
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<tr>
<td>1993</td>
<td>0.806</td>
<td>0.066</td>
<td>0.054</td>
<td>0.571</td>
<td>-0.076</td>
<td>0.872</td>
<td>-0.013</td>
<td>-0.104</td>
<td>0.086</td>
</tr>
<tr>
<td>1994</td>
<td>0.807</td>
<td>0.064</td>
<td>0.059</td>
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<td>0.869</td>
<td>-0.010</td>
<td>-0.103</td>
<td>0.093</td>
</tr>
<tr>
<td>1995</td>
<td>0.736</td>
<td>0.157</td>
<td>0.056</td>
<td>0.405</td>
<td>-0.057</td>
<td>0.781</td>
<td>0.098</td>
<td>0.026</td>
<td>0.175</td>
</tr>
<tr>
<td>1996</td>
<td>0.739</td>
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<td>0.089</td>
<td>0.255</td>
<td>-0.062</td>
<td>0.788</td>
<td>0.088</td>
<td>0.018</td>
<td>0.164</td>
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<tr>
<td>1997</td>
<td>0.742</td>
<td>0.148</td>
<td>0.076</td>
<td>0.205</td>
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<td>0.775</td>
<td>0.105</td>
<td>0.036</td>
<td>0.179</td>
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<tr>
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<td>0.795</td>
<td>0.079</td>
<td>0.010</td>
<td>0.154</td>
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<td>0.783</td>
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<td>0.026</td>
<td>0.169</td>
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<tr>
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<td>0.766</td>
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<td>0.222</td>
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<td>0.793</td>
<td>0.082</td>
<td>0.011</td>
<td>0.158</td>
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<tr>
<td>2001</td>
<td>0.850</td>
<td>0.013</td>
<td>0.046</td>
<td>0.316</td>
<td>-0.036</td>
<td>0.882</td>
<td>-0.025</td>
<td>-0.101</td>
<td>0.059</td>
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</table>

### New York - Ocean Haul Seine

bootstrap GOF probability = 0.29 for the full parameterized model.

<table>
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<tr>
<th>Year</th>
<th>S(unadj.)</th>
<th>F(unadj.)</th>
<th>Rate</th>
<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
<th>95%UCL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1988</td>
<td>0.806</td>
<td>0.068</td>
<td>0.116</td>
<td>0.890</td>
<td>-0.230</td>
<td>1.050</td>
<td>-0.200</td>
<td>-0.310</td>
<td>0.006</td>
</tr>
<tr>
<td>1989</td>
<td>0.806</td>
<td>0.066</td>
<td>0.104</td>
<td>0.870</td>
<td>-0.200</td>
<td>1.011</td>
<td>-0.160</td>
<td>-0.272</td>
<td>0.044</td>
</tr>
<tr>
<td>1990</td>
<td>0.635</td>
<td>0.304</td>
<td>0.088</td>
<td>0.660</td>
<td>-0.130</td>
<td>0.734</td>
<td>0.160</td>
<td>0.092</td>
<td>0.235</td>
</tr>
<tr>
<td>1991</td>
<td>0.634</td>
<td>0.306</td>
<td>0.109</td>
<td>0.540</td>
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<td>0.742</td>
<td>0.150</td>
<td>0.087</td>
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<tr>
<td>1992</td>
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<td>0.307</td>
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<td>0.780</td>
<td>0.100</td>
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<td>0.163</td>
</tr>
<tr>
<td>1993</td>
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<td>0.309</td>
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<td>0.450</td>
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<tr>
<td>1994</td>
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<td>0.309</td>
<td>0.111</td>
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<td>-0.130</td>
<td>0.725</td>
<td>0.170</td>
<td>0.104</td>
<td>0.249</td>
</tr>
<tr>
<td>1995</td>
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<td>0.258</td>
<td>0.144</td>
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<td>0.769</td>
<td>0.110</td>
<td>0.028</td>
<td>0.214</td>
</tr>
<tr>
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<td>0.240</td>
</tr>
<tr>
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<td>0.660</td>
<td>0.266</td>
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<td>0.220</td>
<td>-0.090</td>
<td>0.725</td>
<td>0.170</td>
<td>0.095</td>
<td>0.261</td>
</tr>
<tr>
<td>1998</td>
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<td>0.270</td>
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<td>0.701</td>
<td>0.200</td>
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<td>0.317</td>
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<td>0.795</td>
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<td>0.779</td>
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New Jersey - Delaware Bay
bootstrap GOF probability = 0.48 for the full parameterized model.

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<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
<th>95%UCL</th>
</tr>
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<tbody>
<tr>
<td>1989</td>
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<td>0.104</td>
<td>0.565</td>
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<tr>
<td>1990</td>
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<td>0.833</td>
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<tr>
<td>1991</td>
<td>0.578</td>
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<td>0.939</td>
<td>-0.090</td>
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<tr>
<td>1992</td>
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<td>0.710</td>
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<td>0.224</td>
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<td>0.672</td>
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</tr>
<tr>
<td>1998</td>
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<td>0.258</td>
<td>0.157</td>
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<td>0.734</td>
<td>0.160</td>
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North Carolina - Cooperative Trawl Cruise
C-hat adjustment = 1.545; bootstrap GOF probability = 0.092 for the full parameterized model.

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<th>Year</th>
<th>Recovery Rate</th>
<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
<th>95%UCL</th>
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<tr>
<td>1988</td>
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<td>0.059</td>
<td>0.720</td>
<td>-0.102</td>
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<td>0.097</td>
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<td>1990</td>
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<td>0.583</td>
<td>-0.110</td>
<td>0.791</td>
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<td>0.531</td>
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<td>1993</td>
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<td>0.647</td>
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<td>0.305</td>
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<tr>
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</tr>
<tr>
<td>2001</td>
<td>0.640</td>
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<td>0.091</td>
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</table>
### Producer Area Programs

**Delaware / Pennsylvania - Delaware River**

C-hat adjustment = 1.25; bootstrap GOF probability = 0.36 for the full parameterized model.

#### With trend models included:

<table>
<thead>
<tr>
<th>Year</th>
<th>S(unadj.)</th>
<th>F(unadj.)</th>
<th>Recovery</th>
<th>% Live</th>
<th>Bias Live</th>
<th>Rate</th>
<th>Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
<th>95%UCL</th>
</tr>
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<tr>
<td>1993</td>
<td>0.870</td>
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<td>0.105</td>
<td>0.330</td>
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<td>-0.110</td>
<td>-0.270</td>
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<td>1994</td>
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<tr>
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<tr>
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<td>0.093</td>
<td>0.210</td>
<td>-0.051</td>
<td>0.580</td>
<td>0.400</td>
<td>0.250</td>
<td>0.570</td>
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<tr>
<td>2000</td>
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<td>0.370</td>
<td>0.170</td>
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<tr>
<td>2001</td>
<td>0.540</td>
<td>0.470</td>
<td>0.120</td>
<td>0.120</td>
<td>-0.041</td>
<td>0.560</td>
<td>0.420</td>
<td>0.180</td>
<td>0.750</td>
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#### With trend models excluded:

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<tr>
<th>Year</th>
<th>S(unadj.)</th>
<th>F(unadj.)</th>
<th>Recovery</th>
<th>% Live</th>
<th>Bias Live</th>
<th>Rate</th>
<th>Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
<th>95%UCL</th>
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<td>1993</td>
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<td>0.105</td>
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<tr>
<td>1994</td>
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<td>0.000</td>
<td>0.085</td>
<td>0.290</td>
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<td>-0.060</td>
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<tr>
<td>1995</td>
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<td>0.400</td>
<td>0.120</td>
<td>0.350</td>
<td>-0.111</td>
<td>0.650</td>
<td>0.290</td>
<td>0.190</td>
<td>0.400</td>
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<tr>
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<td>0.400</td>
<td>0.152</td>
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<td>0.270</td>
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<td>1997</td>
<td>0.575</td>
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<td>0.080</td>
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<tr>
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<td>0.150</td>
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<td>0.230</td>
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<tr>
<td>1999</td>
<td>0.570</td>
<td>0.410</td>
<td>0.093</td>
<td>0.210</td>
<td>-0.051</td>
<td>0.600</td>
<td>0.360</td>
<td>0.260</td>
<td>0.470</td>
<td></td>
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</tr>
<tr>
<td>2000</td>
<td>0.580</td>
<td>0.390</td>
<td>0.160</td>
<td>0.170</td>
<td>-0.083</td>
<td>0.630</td>
<td>0.310</td>
<td>0.190</td>
<td>0.440</td>
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<tr>
<td>2001</td>
<td>0.580</td>
<td>0.390</td>
<td>0.120</td>
<td>0.120</td>
<td>-0.041</td>
<td>0.600</td>
<td>0.350</td>
<td>0.210</td>
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### Maryland - Chesapeake Bay Spring Spawning Stock

C-hat adjustment = 1.281; bootstrap GOF probability = 0.98 for the full parameterized model.

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<tr>
<th>Year</th>
<th>S(unadj.)</th>
<th>F(unadj.)</th>
<th>Recovery</th>
<th>% Live</th>
<th>Bias Live</th>
<th>Rate</th>
<th>Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL</th>
<th>95%UCL</th>
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<tr>
<td>1987</td>
<td>0.925</td>
<td>-0.072</td>
<td>0.034</td>
<td>0.000</td>
<td>0.000</td>
<td>0.925</td>
<td>-0.072</td>
<td>-0.136</td>
<td>0.225</td>
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<td></td>
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<tr>
<td>1988</td>
<td>0.922</td>
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<td>0.041</td>
<td>0.670</td>
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<td>0.983</td>
<td>-0.133</td>
<td>-0.196</td>
<td>0.124</td>
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<tr>
<td>1989</td>
<td>0.919</td>
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<td>0.052</td>
<td>0.790</td>
<td>-0.091</td>
<td>1.011</td>
<td>-0.161</td>
<td>-0.224</td>
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</tr>
<tr>
<td>1990</td>
<td>0.624</td>
<td>0.322</td>
<td>0.070</td>
<td>0.570</td>
<td>-0.092</td>
<td>0.687</td>
<td>0.226</td>
<td>0.062</td>
<td>0.451</td>
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<tr>
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<td>0.295</td>
<td>0.123</td>
<td>0.590</td>
<td>-0.178</td>
<td>0.779</td>
<td>0.100</td>
<td>-0.004</td>
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<td>1992</td>
<td>0.658</td>
<td>0.268</td>
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<td>0.768</td>
<td>0.114</td>
<td>0.059</td>
<td>0.175</td>
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<td>1993</td>
<td>0.675</td>
<td>0.244</td>
<td>0.099</td>
<td>0.460</td>
<td>-0.112</td>
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<td>0.058</td>
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<tr>
<td>1994</td>
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<td>0.222</td>
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<td>0.770</td>
<td>0.111</td>
<td>0.007</td>
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<td>0.115</td>
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<td>0.129</td>
<td>0.294</td>
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<td>0.280</td>
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<td>0.691</td>
<td>0.220</td>
<td>0.157</td>
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<td>0.112</td>
<td>0.220</td>
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<td>0.686</td>
<td>0.227</td>
<td>0.171</td>
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<td>0.180</td>
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<td>0.676</td>
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<td>2000</td>
<td>0.731</td>
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<td>0.762</td>
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<td>0.760</td>
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Virginia - Rappahannock River

C-hat adjustment = 1.860; bootstrap GOF probability = 0.12 for the full parameterized model.

<table>
<thead>
<tr>
<th>Year</th>
<th>S(unadj.)</th>
<th>F(unadj.)</th>
<th>Recovery Rate</th>
<th>% Live Release</th>
<th>Bias Live Release</th>
<th>S(adj.)</th>
<th>F(adj.)</th>
<th>95%LCL F(adj)</th>
<th>95%UCL F(adj)</th>
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<td>1990</td>
<td>0.622</td>
<td>0.325</td>
<td>0.086</td>
<td>0.577</td>
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<td>0.712</td>
<td>0.189</td>
<td>0.094</td>
<td>0.294</td>
</tr>
<tr>
<td>1991</td>
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<td>0.325</td>
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<td>0.560</td>
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<td>0.716</td>
<td>0.184</td>
<td>0.090</td>
<td>0.287</td>
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<tr>
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<td>0.123</td>
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<td>0.755</td>
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<td>0.689</td>
<td>0.222</td>
<td>0.126</td>
<td>0.329</td>
</tr>
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<td>0.672</td>
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<td>0.148</td>
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<td>1995</td>
<td>0.597</td>
<td>0.367</td>
<td>0.123</td>
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<td>0.642</td>
<td>0.294</td>
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<td>0.237</td>
<td>0.479</td>
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<td>0.620</td>
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<td>0.079</td>
<td>0.349</td>
<td>-0.073</td>
<td>0.677</td>
<td>0.239</td>
<td>0.081</td>
<td>0.428</td>
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<td>0.636</td>
<td>0.303</td>
<td>0.071</td>
<td>0.304</td>
<td>-0.056</td>
<td>0.674</td>
<td>0.245</td>
<td>0.075</td>
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</table>
Table D24. QAICc weights used to derive model averaged parameter estimates given by Program MARK. Results are for Striped bass >= 18 inches.

**Coast Programs**

<table>
<thead>
<tr>
<th>Model</th>
<th>MADFW</th>
<th>NYOHS</th>
<th>NJDEL</th>
<th>NCCOOP</th>
</tr>
</thead>
<tbody>
<tr>
<td>( {S(t)r(t)} )</td>
<td>0.0002</td>
<td>0.9808</td>
<td>0.9340</td>
<td>0.9999</td>
</tr>
<tr>
<td>( {S(Tp)r(t)} )</td>
<td>0.0089</td>
<td>0.0004</td>
<td>0.0649</td>
<td>0.0000</td>
</tr>
<tr>
<td>( {S(p)r(t)} )</td>
<td>0.0630</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>( {S(t)r(p)} )</td>
<td>0.0385</td>
<td>0.0000</td>
<td>0.0000</td>
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</tr>
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<td>( {S(.)r(t)} )</td>
<td>0.1331</td>
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<td>0.0000</td>
</tr>
<tr>
<td>( {S(Tp)r(Tp)} )</td>
<td>0.0663</td>
<td>0.0188</td>
<td>0.0011</td>
<td>0.0000</td>
</tr>
<tr>
<td>( {S(Tp)r(p)} )</td>
<td>0.0070</td>
<td>0.0000</td>
<td>0.0000</td>
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</tr>
<tr>
<td>( {S(d)r(p)} )</td>
<td>0.3254</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>( {S(v)r(p)} )</td>
<td>0.3501</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
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<td>( {S(p)r(p)} )</td>
<td>0.0006</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
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<td>( {S(.)r(p)} )</td>
<td>0.0024</td>
<td>0.0000</td>
<td>0.0000</td>
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</tbody>
</table>

**Producer Area Programs***

<table>
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<th>DE/PA *</th>
<th>DE/PA **</th>
<th>MDCB</th>
<th>VARAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>( {S(t)r(t)} )</td>
<td>0.0200</td>
<td>0.0540</td>
<td>0.0033</td>
<td>0.9930</td>
</tr>
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<td>( {S(Tp)r(t)} )</td>
<td>0.4590</td>
<td>0.8023</td>
<td>0.0070</td>
<td></td>
</tr>
<tr>
<td>( {S(p)r(t)} )</td>
<td>0.1240</td>
<td>0.3299</td>
<td>0.1943</td>
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</tr>
<tr>
<td>( {S(t)r(p)} )</td>
<td>0.1240</td>
<td>0.0924</td>
<td>0.0001</td>
<td>0.0000</td>
</tr>
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<td>( {S(.)r(t)} )</td>
<td>0.1480</td>
<td>0.3947</td>
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</tr>
<tr>
<td>( {S(Tp)r(Tp)} )</td>
<td>0.1600</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>( {S(Tp)r(p)} )</td>
<td>0.0090</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>( {S(d)r(p)} )</td>
<td>0.0100</td>
<td>0.0260</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>( {S(v)r(p)} )</td>
<td>0.0070</td>
<td>0.0300</td>
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<td>0.0000</td>
</tr>
<tr>
<td>( {S(p)r(p)} )</td>
<td>0.0150</td>
<td>0.0400</td>
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<td>0.0280</td>
<td>0.0000</td>
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<td>0.0100</td>
<td>0.0030</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

* DE/PA with trend models, ** DE/PA without trend models

**Model Descriptions**

- \( S(.) \ r(.) \): Constant survival and reporting
- \( S(t) \ r(t) \): Time specific survival and reporting
- \( S(.) \ r(t) \): Constant survival and time specific reporting
- \( S(p) \ r(t) \): Regulatory period based survival and time specific reporting
- \( S(p) \ r(p) \): Regulatory period based survival and reporting
- \( S(.) \ r(p) \): Constant survival and regulatory period based reporting
- \( S(t) \ r(p) \): Time specific survival and regulatory period based reporting
- \( S(d) \ r(p) \): Regulatory period survival with terminal year unique and regulatory period reporting
- \( S(v) \ r(p) \): Regulatory period survival with 2 terminal years unique and regulatory period reporting
- \( S(Tp) \ r(Tp) \): Linear trend within regulatory period on both survival and reporting
- \( S(Tp) \ r(p) \): Linear trend within regulatory period survival and regulatory period reporting (no trend)
- \( S(Tp) \ r(t) \): Linear trend within regulatory period survival and time specific reporting (no trend)
Results are for striped bass tagged at \(\geq 28\) inches. Models are described in Table 5.

### Coast Programs

<table>
<thead>
<tr>
<th>Model</th>
<th>MADFW</th>
<th>NYOHS</th>
<th>NJDEL</th>
<th>NCCOOP</th>
</tr>
</thead>
<tbody>
<tr>
<td>({S(t)r(t)})</td>
<td>0.00002</td>
<td>0.00009</td>
<td>0.02076</td>
<td>0.03473</td>
</tr>
<tr>
<td>({S(Tp)r(t)})</td>
<td>0.00149</td>
<td>0.00022</td>
<td>0.24351</td>
<td>0.02508</td>
</tr>
<tr>
<td>({S(p)r(t)})</td>
<td>0.01026</td>
<td>0.00089</td>
<td>0.05423</td>
<td>0.05999</td>
</tr>
<tr>
<td>({S(t)r(p)})</td>
<td>0.00712</td>
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### Producer Area Programs

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* DE/PA with trend models, ** DE/PA without trend models
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Table D27. Age frequencies of tagged fish recaptured in 2001 by program.

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Table D28.  Distribution of tag recaptures by state (program) and Coast Programs


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(recaptures in 2001 from fish tagged/release during 1988-2001)

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**Maryland - Chesapeake Bay Spring Spawning Stock**  
(recaptures in 2001 from fish tagged/release during 1987-2001)

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**Virginia - Rappahannock River**  
(recaptures in 2001 from fish tagged/release during 1990-2001)

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**Total** | 1    | 2    | 6     | 23    | 14  | 13   | 9    | 13   | 13    | 17   | 20   | 10   | 141   |
Table D29. Time series of survival (S) and total mortality (Z) estimates adjusted for live release bias. Results are for age 1, 2, and older striped bass tagged during Western Long Island survey. Reporting Rate (DE) = 0.433
Bootstrap GOF S(a*t) r(a*t) prob = 0.51; c-hat was estimated as model dev/mean simulation dev = 180.288/182.654 = 0.98, no c-hat adjustment was used.

Models and AICc weights used to derive model averaged parameter estimates given by Program MARK. All other models tested had delta AIC > 7, and AICc weight < 0.01.

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### Age 2 Survival

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### Table D29. Continued.

**Age 3+ Survival**

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Table D31. Distribution of tag recaptures by state and month for all recaptures 1988 - 2001

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Table D32. R/M estimates of exploitation rates of >= 28 inch striped bass from tagging programs
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<td>0.115</td>
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</tr>
<tr>
<td>1995</td>
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<td>0.144</td>
<td>0.142</td>
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<td>0.298</td>
<td>0.208</td>
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</tr>
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<td>0.233</td>
<td>0.040</td>
<td>0.172</td>
<td>0.337</td>
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<td>0.239</td>
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<td>0.173</td>
<td>0.258</td>
<td>0.236</td>
<td>0.137</td>
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<td>0.232</td>
<td>0.198</td>
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<td>0.128</td>
<td>0.173</td>
<td>0.322</td>
<td>0.139</td>
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<td>0.154</td>
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<td>0.101</td>
<td>0.128</td>
<td>0.280</td>
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</tbody>
</table>

* Years when few or no striped bass were tagged and
** NYOHS and MA have fall tagging programs, and recapture interval of terminal year (2000) is
fall 2000 to fall 2001; NCCOOP is a winter tagging program (Jan./Feb.) with recapture interval of
terminal year (2001) from January 2001 to January 2002; others are spring tagging programs

Table D33. R/M estimates of catch rates of >= 28 inch striped bass from tagging programs.
(with reporting rate adjustment of 0.43)

<table>
<thead>
<tr>
<th>Year</th>
<th>NJDB</th>
<th>NYOHS</th>
<th>NCCOOP</th>
<th>MA</th>
<th>VA York</th>
<th>VA Rap</th>
<th>MDCB</th>
<th>DE/PA</th>
<th>NYHUD</th>
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<tr>
<td>1987</td>
<td>*</td>
<td>0.284</td>
<td>*</td>
<td>*</td>
<td>0.388</td>
<td>0.080</td>
<td>*</td>
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</tr>
<tr>
<td>1988</td>
<td>*</td>
<td>0.224</td>
<td>0.256</td>
<td>*</td>
<td>0.312</td>
<td>0.091</td>
<td>*</td>
<td>0.220</td>
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</tr>
<tr>
<td>1989</td>
<td>0.233</td>
<td>0.215</td>
<td>0.141</td>
<td>*</td>
<td>0.090</td>
<td>0.095</td>
<td>*</td>
<td>0.285</td>
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</tr>
<tr>
<td>1990</td>
<td>0.517</td>
<td>0.215</td>
<td>0.173</td>
<td>*</td>
<td>0.203</td>
<td>0.175</td>
<td>*</td>
<td>0.362</td>
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</tr>
<tr>
<td>1991</td>
<td>0.620</td>
<td>0.345</td>
<td>0.206</td>
<td>0.156</td>
<td>0.155</td>
<td>0.212</td>
<td>0.277</td>
<td>*</td>
<td>0.250</td>
</tr>
<tr>
<td>1992</td>
<td>0.275</td>
<td>0.268</td>
<td>0.269</td>
<td>0.133</td>
<td>0.089</td>
<td>0.216</td>
<td>0.248</td>
<td>0.179</td>
<td>0.302</td>
</tr>
<tr>
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<td>0.273</td>
<td>0.278</td>
<td>0.106</td>
<td>0.211</td>
<td>0.266</td>
<td>0.266</td>
<td>0.326</td>
<td>0.348</td>
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<tr>
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<td>0.358</td>
<td>0.208</td>
<td>0.161</td>
<td>0.278</td>
<td>0.191</td>
<td>0.225</td>
<td>0.201</td>
<td>0.256</td>
</tr>
<tr>
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<td>0.336</td>
<td>0.274</td>
<td>0.252</td>
<td>0.250</td>
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<tr>
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<td>0.154</td>
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</tr>
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<tr>
<td>2000</td>
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<td>0.171</td>
<td>0.169</td>
<td>0.312</td>
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* Years when few or no striped bass were tagged and
** See footnote in Table D32.
Table D34. R/M estimates of exploitation rates of >= 18 inch striped bass from tagging programs
(with reporting rate adjustment of 0.43, and hooking mortality rate adjustment of 0.08).

<table>
<thead>
<tr>
<th>Year</th>
<th>NJDB</th>
<th>NYOHS</th>
<th>NCCOOP</th>
<th>MA</th>
<th>VA York</th>
<th>VA Rap</th>
<th>MDCB</th>
<th>DE/PA</th>
<th>NYHUD</th>
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<tbody>
<tr>
<td>1987</td>
<td>0.024</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>0.051</td>
<td>0.021</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>1988</td>
<td>*</td>
<td>0.031</td>
<td>0.047</td>
<td>*</td>
<td>0.132</td>
<td>0.017</td>
<td>*</td>
<td>0.060</td>
<td>*</td>
</tr>
<tr>
<td>1989</td>
<td>0.037</td>
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<td>0.032</td>
<td>*</td>
<td>0.046</td>
<td>0.013</td>
<td>*</td>
<td>0.059</td>
<td></td>
</tr>
<tr>
<td>1990</td>
<td>0.112</td>
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<td>*</td>
<td>0.120</td>
<td>0.068</td>
<td>*</td>
<td>0.094</td>
<td></td>
</tr>
<tr>
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<td>0.053</td>
<td>0.085</td>
<td>0.051</td>
<td>0.114</td>
<td>0.075</td>
<td>0.102</td>
<td>0.031</td>
<td>0.077</td>
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<tr>
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<td>0.047</td>
<td>0.164</td>
<td>0.057</td>
<td>0.096</td>
<td>0.063</td>
<td>0.140</td>
<td>0.133</td>
<td>0.105</td>
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<tr>
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<td>0.106</td>
<td>0.038</td>
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<td>0.114</td>
<td>0.111</td>
<td>0.116</td>
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<td>0.040</td>
<td>0.094</td>
<td>0.102</td>
<td>0.121</td>
<td>0.119</td>
<td>0.085</td>
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<tr>
<td>1995</td>
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<td>0.035</td>
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<td>0.064</td>
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<td>0.196</td>
<td>0.196</td>
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<tr>
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<td>0.109</td>
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<td>0.132</td>
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<td>0.200</td>
<td>0.210</td>
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<tr>
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<td>0.150</td>
<td>0.056</td>
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<td>0.149</td>
<td>0.207</td>
<td>0.146</td>
<td>0.177</td>
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<td>**</td>
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<td>0.124</td>
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* Years when few or no striped bass were tagged and
** NYOHS and MA have fall tagging programs, and recapture interval of terminal year (2000) is fall 2000 to fall 2001; NCCOOP is a winter tagging program (Jan./Feb.) with recapture interval of terminal year (2001) from January 2001 to January 2002; others are spring tagging programs recapture interval of terminal year (2001) from spring 2001 to spring 2002.

Table D35. R/M estimates of catch rates of >= 18 inch striped bass from tagging programs.
(with reporting rate adjustment of 0.43)

<table>
<thead>
<tr>
<th>Year</th>
<th>NJDB</th>
<th>NYOHS</th>
<th>NCCOOP</th>
<th>MA</th>
<th>VA York</th>
<th>VA Rap</th>
<th>MDCB</th>
<th>DE/PA</th>
<th>NYHUD</th>
</tr>
</thead>
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<tr>
<td>1987</td>
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<td>*</td>
<td>*</td>
<td>*</td>
<td>0.080</td>
<td>0.157</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>1988</td>
<td>*</td>
<td>0.242</td>
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<td>0.274</td>
<td>0.100</td>
<td>*</td>
<td>0.192</td>
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<td>1989</td>
<td>0.297</td>
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<td>*</td>
<td>*</td>
<td>0.205</td>
<td>0.082</td>
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<td>0.180</td>
<td>*</td>
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<td>0.279</td>
<td>0.131</td>
<td>*</td>
<td>0.293</td>
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<tr>
<td>1991</td>
<td>0.234</td>
<td>0.202</td>
<td>0.200</td>
<td>0.156</td>
<td>0.252</td>
<td>0.157</td>
<td>0.187</td>
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</tr>
<tr>
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<td>0.125</td>
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<td>2000</td>
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</table>

* Years when few or no striped bass were tagged and
** See footnote in Table D34.
Figure D24. Comparison of VPA and Tag program fishing mortality estimates.

Figure D25. Comparison of VPA and Cooperative Cruise Tag program fishing mortality estimates.
Figure D26. Time series of VPA and Tag estimated fishing mortality.