**Stock: North-East Arctic Saithe**

**Assessment Quality Control Diagram 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Average F(3-6,u) | | | | | | | | | | | | | | | |
| Date of assessment | Year | | | | | | | | | | | | | | |
|  | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | |
| 1989 | 0.45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1990 | 0.25 | 0.32 |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1991 | 0.33 | 0.44 | 0.36 |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1992 | 0.40 | 0.58 | 0.49 | 0.40 |  |  |  |  |  |  |  |  |  |  |  | |
| 1993 | 0.42 | 0.59 | 0.48 | 0.41 | 0.42 |  |  |  |  |  |  |  |  |  |  | |
| 1994 | 0.41 | 0.55 | 0.49 | 0.46 | 0.47 | 0.41 |  |  |  |  |  |  |  |  |  | |
| 1995 | 0.41 | 0.56 | 0.49 | 0.44 | 0.47 | 0.40 | 0.38 |  |  |  |  |  |  |  |  | |
| 1996 | 0.41 | 0.57 | 0.50 | 0.46 | 0.48 | 0.43 | 0.44 | 0.49 |  |  |  |  |  |  |  | |
| 1997 | 0.41 | 0.57 | 0.49 | 0.44 | 0.44 | 0.37 | 0.38 | 0.43 | 0.43 |  |  |  |  |  |  | |
| 1998 | 0.41 | 0.57 | 0.49 | 0.45 | 0.45 | 0.40 | 0.41 | 0.44 | 0.36 | 0.38 |  |  |  |  |  | |
| 1999 | 0.41 | 0.57 | 0.49 | 0.44 | 0.45 | 0.39 | 0.41 | 0.42 | 0.33 | 0.35 | 0.39 |  |  |  |  | |
| 2000 | 0.41 | 0.57 | 0.49 | 0.44 | 0.44 | 0.38 | 0.38 | 0.38 | 0.29 | 0.29 | 0.29 | 0.37 |  |  |  | |
| 2001 | 0.41 | 0.56 | 0.48 | 0.43 | 0.43 | 0.37 | 0.36 | 0.35 | 0.26 | 0.26 | 0.24 | 0.32 | 0.26 |  |  | |
| 2002 | 0.41 | 0.56 | 0.48 | 0.43 | 0.42 | 0.37 | 0.36 | 0.34 | 0.24 | 0.24 | 0.22 | 0.25 | 0.21 | 0.22 |  | |
| 2003 | 0.41 | 0.56 | 0.48 | 0.43 | 0.42 | 0.36 | 0.35 | 0.34 | 0.24 | 0.23 | 0.20 | 0.23 | 0.19 | 0.20 | 0.22 | |

From ACFM Working Document.

**Remarks: In 1999 two assessment were done and the results from the standard assessment (Option 1 in the report) are given here.**

**Stock: North-East Arctic Saithe**

**Assessment Quality Control Diagram 2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Recruitment (age 2 ) Unit: millions | | | | | | | | | | | | | | | |
| Date of assessment | Year class | | | | | | | | | | | | | | |
|  | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | |
| 1989 | 164 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1990 | 164 | 164 |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1991 | 224 | 164 | 164 |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1992 | 109 | 377 | 149 | 164 |  |  |  |  |  |  |  |  |  |  |  | |
| 1993 | 101 | 293 | 295 | 209 | 209 |  |  |  |  |  |  |  |  |  |  | |
| 1994 | 82 | 323 | 397 | 209 | 209 | 209 |  |  |  |  |  |  |  |  |  | |
| 1995 | 87 | 289 | 378 | 322 | 179 | 210 | 210 |  |  |  |  |  |  |  |  | |
| 1996 | 87 | 279 | 420 | 312 | 219 | 128 | 210 | 210 |  |  |  |  |  |  |  | |
| 1997 | 90 | 288 | 459 | 305 | 211 | 174 | 197 | 176 | 210 |  |  |  |  |  |  | |
| 1998 | 88 | 282 | 447 | 296 | 205 | 341 | 113 | 153 | 143 | 210 |  |  |  |  |  | |
| 1999 | 88 | 286 | 453 | 304 | 214 | 364 | 107 | 120 | 202 | 174 | 210 |  |  |  |  | |
| 2000 | 89 | 289 | 464 | 321 | 226 | 406 | 117 | 152 | 64 | 267 | 219 | 210 |  |  |  | |
| 2001 | 89 | 292 | 481 | 343 | 238 | 427 | 129 | 180 | 79 | 192 | 219 | 322 | 208 |  |  | |
| 2002 | 89 | 292 | 482 | 348 | 246 | 437 | 145 | 193 | 103 | 269 | 96 | 260 | 228 | 212 |  | |
| 2003 | 89 | 295 | 486 | 346 | 245 | 460 | 154 | 203 | 109 | 300 | 125 | 197 | 244 | 192 | 211 | |

Average recruitment. From ACFM Working Document. Recalculated from recruitment at age 1. Calculated using RCT3.

**Remarks: In 1999 two assessment were done and the results from the standard assessment (Option 1 in the report) are given here.  
Stock: North-East Arctic Saithe**

**Assessment Quality Control Diagram 3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Spawning stock biomass ('000 t) | | | | | | | | | | | | | | | | | |
| Date of assessment | Year | | | | | | | | | | | | | | | | |
|  | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | |
| 1989 | 205 | 182 | 148 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1990 | 255 | 324 | 303 | 281 |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1991 | 167 | 186 | 185 | 173 | 199 |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1992 | 118 | 118 | 102 | 88 | 98 | 186 |  |  |  |  |  |  |  |  |  |  |  | |
| 1993 | 98 | 98 | 86 | 79 | 67 | 124 | 169 |  |  |  |  |  |  |  |  |  |  | |
| 1994 | 102 | 111 | 103 | 94 | 56 | 139 | 270 | 270 |  |  |  |  |  |  |  |  |  | |
| 1995 | 140 | 123 | 110 | 105 | 123 | 175 | 238 | 240 | 211 |  |  |  |  |  |  |  |  | |
| 1996 | 139 | 121 | 106 | 100 | 114 | 177 | 210 | 211 | 167 | 150 |  |  |  |  |  |  |  | |
| 1997 | 140 | 123 | 109 | 106 | 126 | 207 | 250 | 267 | 223 | 205 | 190 |  |  |  |  |  |  | |
| 1998 | 139 | 122 | 108 | 103 | 120 | 196 | 231 | 231 | 226 | 211 | 171 | 150 |  |  |  |  |  | |
| 1999 | 139 | 123 | 109 | 104 | 123 | 202 | 238 | 247 | 253 | 252 | 186 | 161 |  |  |  |  |  | |
| 2000 | 140 | 123 | 110 | 105 | 126 | 211 | 256 | 278 | 304 | 337 | 275 | 199 | 219 | 222 |  |  |  | |
| 2001 | 139 | 124 | 111 | 107 | 130 | 222 | 281 | 319 | 357 | 410 | 360 | 311 | 288 | 304 | 362 |  |  | |
| 2002 | 140 | 124 | 113 | 108 | 130 | 222 | 284 | 327 | 370 | 438 | 397 | 374 | 388 | 360 | 371 | 398 |  | |
| 2003 | 140 | 124 | 113 | 108 | 133 | 228 | 289 | 332 | 385 | 464 | 428 | 409 | 441 | 447 | 437 | 438 | 414 | |

Forecast. From ACFM Working Document. No forecast for year 2001 was made.

**Remarks: In 1999 two assessment were done and the results from the standard assessment (Option 1 in the report) are given here.**