**Stock: Icelandic summer-spawning herring (Division Va)**

**Assessment Quality Control Diagram 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Average F(4-14,w) | | | | | | | | | | | | | | | |
| Date of assessment | Year | | | | | | | | | | | | | | |
|  | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |  |
| 1989 | 0.264 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 | 0.228 | 0.252 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 | 0.228 | 0.248 | 0.246 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 | 0.244 | 0.264 | 0.300 | 0.267 |  |  |  |  |  |  |  |  |  |  |  |
| 1993 | 0.286 | 0.310 | 0.354 | 0.372 | 0.331 |  |  |  |  |  |  |  |  |  |  |
| 1994 | 0.300 | 0.315 | 0.365 | 0.383 | 0.360 | 0.207 |  |  |  |  |  |  |  |  |  |
| 1995 | 0.289 | 0.306 | 0.345 | 0.365 | 0.334 | 0.233 | 0.264 |  |  |  |  |  |  |  |  |
| 1996 | 0.291 | 0.311 | 0.356 | 0.372 | 0.324 | 0.201 | 0.264 | 0.271 |  |  |  |  |  |  |  |
| 1997 | .293 | .319 | .366 | .386 | .335 | .208 | .237 | .219 | .203 |  |  |  |  |  |  |
| 1998 | 0.294 | 0.298 | 0.342 | 0.363 | 0.311 | 0.195 | 0.262 | 0.246 | 0.241 | 0.154 |  |  |  |  |  |
| 1999 | 0.288 | 0.295 | 0.338 | 0.364 | 0.325 | 0.212 | 0.264 | 0.263 | 0.267 | 0.179 | 0.179 |  |  |  |  |
| 2000 | 0.294 | 0313 | 0.364 | 0.388 | 0.356 | 0.238 | 0.313 | 0.300 | 0.298 | 0.193 | 0.206 | 0.185 |  |  |  |
| 2001 | 0.297 | 0.317 | 0.372 | 0.406 | 0.350 | 0.246 | 0.31 | 0.335 | 0.335 | 0.231 | 0.265 | 0.215 | 0.18 |  |  |
| 2002 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2003 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Remarks:**

**Stock: Icelandic summer-spawning herring (Division Va)**

**Assessment Quality Control Diagram 2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Recruitment (age 2) Unit: millions | | | | | | | | | | | | | | |
| Date of assessment | Year class | | | | | | | | | | | | | |
|  | | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | |
| 1989 | | 857 |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1990 | | 982 | 394 |  |  |  |  |  |  |  |  |  |  |  | |
| 1991 | | 561 | 347 | 1102 |  |  |  |  |  |  |  |  |  |  | |
| 1992 | | 675 | 631 | 1334 | 1016 |  |  |  |  |  |  |  |  |  | |
| 1993 | | 509 | 372 | 1217 | 1194 | 303 |  |  |  |  |  |  |  |  | |
| 1994 | | 520 | 312 | 1147 | 1648 | 792 | 1400 |  |  |  |  |  |  |  | |
| 1995 | | 505 | 337 | 925 | 1459 | 719 | 1316 | 600 |  |  |  |  |  |  | |
| 1996 | | 523 | 389 | 1093 | 1256 | 700 | 988 | 600 |  |  |  |  |  |  | |
| 1997 | | 518 | 420 | 1072 | 1540 | 901 | 1050 | 354 | 400 |  |  |  |  |  | |
| 1998 | | 516 | 429 | 1078 | 1258 | 843 | 929 | 388 | 285 | 907 |  |  |  |  | |
| 1999 | | 494 | 390 | 1004 | 1353 | 738 | 850 | 327 | 436 | 1221 | 471 |  |  |  | |
| 2000 | | 508 | 363 | 940 | 1198 | 783 | 875 | 379 | 355 | 1440 | 553 | 1075 |  |  | |
| 2001 | | 482 | 432 | 884 | 1151 | 697 | 853 | 312 | 280 | 1411 | 519 | 1590 | 865 |  | |
| 2002 | |  |  |  |  |  |  |  |  |  |  |  |  |  | |

**Remarks:**  derived by RCT3

**Stock: Icelandic summer-spawning herring (Division Va)**

**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 | |
| 1989 | 386 | | 432 | 445 |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1990 | 458 | | 510 | 510 | 490 |  |  |  |  |  |  |  |  |  |  |  | |
| 1991 | 471 | | 443 | 425 | 503 | 562 |  |  |  |  |  |  |  |  |  |  | |
| 1992 | 449 | | 437 | 427 | 520 | 590 | 610 |  |  |  |  |  |  |  |  |  | |
| 1993 | 401 | | 363 | 311 | 399 | 480 | 448 | 568 |  |  |  |  |  |  |  |  | |
| 1994 | 394 | | 357 | 299 | 375 | 571 | 621 | 689 | 693 |  |  |  |  |  |  |  | |
| 1995 | 407 | | 369 | 312 | 359 | 517 | 529 | 587 | 587 | 569 |  |  |  |  |  |  | |
| 1996 | 400 | | 364 | 314 | 386 | 517 | 522 | 521 | 587 | 458 |  |  |  |  |  |  | |
| 1997 | 391 | | 354 | 307 | 379 | 556 | 593 | 560 | 509 | 490 | 504 |  |  |  |  |  | |
| 1998 | 407 | | 369 | 323 | 396 | 527 | 552 | 540 | 452 | 435 |  |  |  |  |  |  | |
| 1999 | 412 | | 371 | 320 | 381 | 523 | 532 | 509 | 415 | 417 | 494 | 496 | 519 |  |  |  | |
| 2000 | 393 | | 354 | 301 | 350 | 465 | 481 | 464 | 379 | 378 | 486 | 507 | 583 | 606 |  |  | |
| 2001 | 389 | | 347 | 300 | 345 | 451 | 453 | 432 | 339 | 324 | 429 | 448 | 627 | 696 | 725 |  | |
| 2002 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |

Forecast.

**Remarks:**