**Stock:** **ANGLERFISH (*L. budegassa*) Southern (Divisions VIIIc and IXa)**

**Assessment Quality Control Diagram 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Average F(7-11 ,u) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Year | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date of assessment | | 1988 | | | 1989 | | 1990 | | 1991 | | 1992 | | 1993 | | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | | 1999 | | 2000 | | 2001 | | 2002 | |
| 1989 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1990 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1991 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1992 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1993 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1994 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1995 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1996 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1997 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1998 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 1999\* | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 2000 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 2001 | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| 2002 | | 0.5277 | | | 0.4541 | | 0.4678 | | 0.436 | | 0.4001 | | 0.5087 | | 0.3246 | | 0.2815 | | 0.3935 | | 0.3223 | | 0.2497 | | 0.2461 | | 0.1664 | | 0.0961 | |  | |
| 2003 | | 0.5139 | | | 0.4551 | | 0.465 | | 0.4312 | | 0.3975 | | 0.5017 | | 0.3174 | | 0.2812 | | 0.3971 | | 0.3427 | | 0.2915 | | 0.3482 | | 0.3028 | | 0.2153 | | 0.0937 | |

**Stock: : ANGLERFISH (*L. budegassa*) Southern (Divisions VIIIc and IXa**

**Assessment Quality Control Diagram 2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Recruitment (age 0) Unit: millions (age 1 in 2000 assessment) | | | | | | | | | | | | | | | |
| Year class | | | | | | | | | | | | | | | |
| Date of assessment | 1989 | | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
| 1989 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1995 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1998 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1999 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2000 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2001 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2002 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2003 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Stock: ANGLERFISH (*L. budegassa*) Southern (Divisions VIIIc and IXa)**

**Assessment Quality Control Diagram 3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Spawning stock biomass ('000 t) | | | | | | | | | | | | | | | | | |
| Year | | | | | | | | | | | | | | | | | |
| Date of assessment | 1989 | | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
| 1989 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1995 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1998 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1999 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2000 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2001 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2002 | 4.5 | | 4.3 | 4.0 | 3.7 | 4.0 | 3.6 | 3.7 | 3.7 | 3.8 | 4.7 | 4.6 | 5.0 | 6.1 |  |  |  |  |
| 2003 | 4.2 | | 4.1 | 3.8 | 3.5 | 3.8 | 3.5 | 3.5 | 3.5 | 3.6 | 4.2 | 3.9 | 3.6 | 3.5 | 3.9 |  |  |  |