**Stock: Plaice in Division VIIe (Western English Channel)**

**Assessment Quality Control Diagram 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Average F(3-7 ,u) | | | | | | | | | | | | | | |
| Year | | | | | | | | | | | | | | |
| Date of assessment | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
| 1989 | 0.51 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 | 0.45 | 0.71 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 | 0.36 | 0.46 | 0.44 |  |  |  |  |  |  |  |  |  |  |  |
| 1992 | 0.47 | 0.66 | 0.77 | 0.74 |  |  |  |  |  |  |  |  |  |  |
| 1993 | 0.46 | 0.63 | 0.70 | 0.62 | 0.70 |  |  |  |  |  |  |  |  |  |
| 1994 | 0.45 | 0.60 | 0.65 | 0.56 | 0.62 | 0.64 |  |  |  |  |  |  |  |  |
| 1995 | 0.45 | 0.62 | 0.68 | 0.61 | 0.71 | 0.83 | 0.78 |  |  |  |  |  |  |  |
| 1996 | 0.45 | 0.61 | 0.67 | 0.59 | 0.67 | 0.74 | 0.66 | 0.68 |  |  |  |  |  |  |
| 1997 | 0.44 | 0.59 | 0.65 | 0.57 | 0.64 | 0.69 | 0.60 | 0.64 | 0.58 |  |  |  |  |  |
| 1998 | 0.45 | 0.61 | 0.66 | 0.58 | 0.65 | 0.70 | 0.62 | 0.69 | 0.73 | 0.62 |  |  |  |  |
| 1999 | 0.45 | 0.61 | 0.66 | 0.58 | 0.65 | 0.70 | 0.62 | 0.68 | 0.71 | 0.62 | 0.65 |  |  |  |
| 2000 | 0.44 | 0.60 | 0.66 | 0.58 | 0.65 | 0.69 | 0.61 | 0.66 | 0.66 | 0.57 | 0.59 | 0.61 |  |  |
| 2001 | 0.44 | 0.60 | 0.66 | 0.58 | 0.65 | 0.69 | 0.61 | 0.66 | 0.67 | 0.58 | 0.62 | 0.63 | 0.58 |  |
| 2002 | 0.45 | 0.60 | 0.66 | 0.58 | 0.65 | 0.69 | 0.61 | 0.66 | 0.67 | 0.58 | 0.62 | 0.65 | 0.58 | 0.66 |

**Remarks:**Commercial tuning data revised in 1994.

Average F(3-8).

**Stock: Plaice in Division VIIe (Western English Channel)**

**Assessment Quality Control Diagram 2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Recruitment (age 1 ) Unit: ‘000 000s | | | | | | | | | | | | | | |
| Year class | | | | | | | | | | | | | | |
| Date of assessment | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
| 1989 | 5.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 | 5.0 | 5.0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 | 6.8 | 5.7 | 5.4 |  |  |  |  |  |  |  |  |  |  |  |
| 1992 | 3.1 | 5.0 | 4.6 | 5.9 |  |  |  |  |  |  |  |  |  |  |
| 1993 | 3.4 | 3.8 | 4.9 | 10.3 | 5.4 |  |  |  |  |  |  |  |  |  |
| 1994 | 3.5 | 3.8 | 4.2 | 6.3 | 4.1 | 5.2 |  |  |  |  |  |  |  |  |
| 1995 | 3.3 | 3.6 | 4.0 | 4.8 | 3.3 | 4.6 | 5.1 |  |  |  |  |  |  |  |
| 1996 | 3.4 | 3.8 | 4.1 | 4.6 | 2.6 | 3.7 | 3.8 | 5.0 |  |  |  |  |  |  |
| 1997 | 3.4 | 3.8 | 4.1 | 4.7 | 2.1 | 2.4 | 5.2 | 3.3 | 4.8 |  |  |  |  |  |
| 1998 | 3.4 | 3.8 | 4.1 | 4.6 | 2.0 | 1.8 | 7.2 | 6.1 | 3.2 | 4.8 |  |  |  |  |
| 1999 | 3.4 | 3.8 | 4.1 | 4.6 | 2.0 | 1.9 | 6.7 | 4.7 | 5.7 | 4.9 | 4.7 |  |  |  |
| 2000 | 3.4 | 3.8 | 4.1 | 4.6 | 2.1 | 2.0 | 6.4 | 4.6 | 5.4 | 4.2 | 3.7 | 4.8 |  |  |
| 2001 | 3.4 | 3.8 | 4.1 | 4.6 | 2.1 | 2.0 | 6.3 | 4.6 | 5.9 | 3.4 | 3.7 | 4.4 | 4.7 |  |
| 2002 | 3.4 | 3.8 | 4.1 | 4.6 | 2.1 | 2.0 | 6.3 | 4.4 | 6.4 | 3.5 | 2.1 | 3.9 | 3.3 | 4.6 |

**Remarks:** Commercial tuning data revised in 1994.GM recruitment.

**Stock: Plaice in Division VIIe (Western English Channel)**

**Assessment Quality Control Diagram 3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Spawning stock biomass (tonnes) | | | | | | | | | | | | | | | | |
| Year | | | | | | | | | | | | | | | | |
| Date of assessment | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| 1989 | 3.1 | 2.8 | 2.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 | 2.9 | 2.3 | 1.8 | 1.5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 | 4.4 | 4.2 | 4.6 | 4.1 | 3.7 |  |  |  |  |  |  |  |  |  |  |  |
| 1992 | 3.4 | 3.2 | 2.4 | 2.1 | 1.9 | 1.7 |  |  |  |  |  |  |  |  |  |  |
| 1993 | 3.6 | 3.4 | 2.7 | 2.2 | 1.9 | 2.1 | 2.1 |  |  |  |  |  |  |  |  |  |
| 1994 | 4.2 | 4.2 | 3.4 | 2.8 | 2.4 | 2.2 | 2.1 | 1.9 |  |  |  |  |  |  |  |  |
| 1995 | 4.1 | 4.0 | 3.2 | 2.5 | 2.0 | 1.7 | 1.6 | 1.5 | 1.6 |  |  |  |  |  |  |  |
| 1996 | 4.1 | 4.1 | 3.3 | 2.6 | 2.2 | 1.8 | 1.7 | 1.5 | 1.5 | 1.7 |  |  |  |  |  |  |
| 1997 | 4.2 | 4.1 | 3.3 | 2.8 | 2.3 | 1.9 | 1.7 | 1.6 | 1.6 | 1.7 | 1.8 |  |  |  |  |  |
| 1998 | 4.1 | 4.0 | 3.3 | 2.7 | 2.3 | 1.8 | 1.6 | 1.6 | 1.9 | 2.1 | 1.9 | 1.9 |  |  |  |  |
| 1999 | 4.1 | 4.0 | 3.3 | 2.7 | 2.3 | 1.8 | 1.6 | 1.6 | 1.7 | 1.8 | 2.1 | 2.1 | 2.1 |  |  |  |
| 2000 | 4.2 | 4.1 | 3.3 | 2.7 | 2.3 | 1.8 | 1.6 | 1.6 | 1.8 | 1.7 | 1.7 | 1.9 | 1.8 | 1.9 |  |  |
| 2001 | 4.2 | 4.1 | 3.3 | 2.7 | 2.3 | 1.8 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 |  |
| 2002 | 4.2 | 4.0 | 3.3 | 2.7 | 2.3 | 1.8 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.6 | 1.4 | 1.5 | 1.6 |

**Remarks:** Commercial tuning data revised (new series) in 1994. SSB calculated at January 1 from 1994 assessment onwards. New maturity ogive introduced from 1997.

Forecast.