**Stock: Plaice in Division IIIa**

**Assessment Quality Control Diagram 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Average F( 4-8 ,u) | | | | | | | | | | | | | | |
| Date of assessment | Year | | | | | | | | | | | | | |
|  | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
| 1989 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 | - | - | - | - | - | - |  |  |  |  |  |  |  |  |
| 1995 | 1.11 | 0.73 | 0.92 | 0.60 | 0.68 | 0.86 | 0.64 |  |  |  |  |  |  |  |
| 1996 | 1.12 | 0.74 | 0.97 | 0.68 | 0.81 | 0.80 | 0.73 | 0.78 |  |  |  |  |  |  |
| 1997 | 1.12 | 0.74 | 0.97 | 0.69 | 0.82 | 0.82 | 0.80 | 1.02 | 0.80 |  |  | |  |  |
| 1998 | 1.12 | 0.73 | 0.95 | 0.70 | 0.79 | 0.78 | 0.75 | 0.82 | 0.51 | 0.74 |  |  |  |  |
| 1999 | 1.12 | 0.74 | 0.95 | 0.71 | 0.79 | 0.79 | 0.77 | 0.88 | 0.58 | 1.11 | 0.62 |  |  |  |
| 2000 | 1.12 | 0.73 | 0.95 | 0.71 | 0.80 | 0.79 | 0.77 | 0.87 | 0.61 | 1.16 | 0.71 | 0.70 |  |  |
| 2001 | 1.12 | 0.73 | 0.95 | 0.70 | 0.80 | 0.79 | 0.77 | 0.87 | 0.63 | 1.24 | 0.91 | 1.46 | 0.82 |  |
| 2002 | 1.12 | 0.73 | 0.95 | 0.70 | 0.80 | 0.79 | 0.77 | 0.87 | 0.62 | 1.25 | 0.92 | 1.52 | 1.29 | 0.86 |

**Remarks: No analytical assesment carried out in 1994. In 1995 the catch at age was derived by using age information taken from the North Sea**

**Stock: Plaice in Division IIIa**

**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 |
| 1989 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 | - | - |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 | 81.4 | 47.5 | - |  |  |  |  |  |  |  |  |  |  |  |
| 1992 | 41.8 | 69.3 | 104.2 | - |  |  |  |  |  |  |  |  |  |  |
| 1993 | 81.2 | 104.0 | 53.6 | 78.8 | - |  |  |  |  |  |  |  |  |  |
| 1994 | - | - | - | - | - | - |  |  |  |  |  |  |  |  |
| 1995 | 67.3 | 55.8 | 34.6 | 39.2 | 99.5 | 46.0 | 47.3 |  |  |  |  |  |  |  |
| 1996 | 68.2 | 73.5 | 51.6 | 49.6 | 50.2 | 39.6 | 35.4 | 50.1 |  |  |  |  |  |  |
| 1997 | 67.7 | 73.1 | 49.4 | 43.0 | 37.5 | 42.1 | 44.6 | 81.7 | 48.1 |  |  | |  |  |
| 1998 | 66.2 | 73.6 | 51.6 | 47.0 | 39.4 | 44.2 | 49.2 | 47.2 | 47.2 | 47.2 |  |  |  |  |
| 1999 | 66.1 | 73.4 | 50.9 | 45.6 | 35.3 | 37.4 | 41.4 | 68.1 | 48.0 | 39.2 | 47.5 |  |  |  |
| 2000 | 66.6 | 73.7 | 51.0 | 45.4 | 35.5 | 36.1 | 43.5 | 54.7 | 51.4 | 34.2 | 36.3 | 47.2 |  |  |
| 2001 | 66.1 | 73.2 | 50.7 | 45.2 | 35.1 | 34.7 | 37.9 | 43.6 | 53.4 | 42.0 | 41.7 | 46.9 | 46.0 |  |
| 2002 | 66.1 | 73.2 | 50.7 | 45.3 | 35.3 | 35.0 | 38.0 | 39.6 | 46.3 | 44.0 | 61.8 | 133.0 | 154.8 | 46.3’ |

**Remarks: No analytical assesment carried out in 1994. In 1995 the catch at age was derived by using age information taken from the North Sea**

**Stock: Plaice in Division IIIa**

**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 |
| 1989 | - | - | - |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 | 43.0 | - | - | - |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 | 27.2 | 42.3 | 62.0 | - | - |  |  |  |  |  |  |  |  |  |  |  |
| 1992 | 20.9 | 24.9 | 28.0 | 23.4 | 24.3 | 24.8 |  |  |  |  |  |  |  |  |  |  |
| 1993 | 24.3 | 38.2 | 46.8 | 51.1 | 56.9 | 50.7 | 46.4 |  |  |  |  |  |  |  |  |  |
| 1994 | - | - | - | - | - | - | - | - |  |  |  |  |  |  |  |  |
| 1995 | 24.4 | 34.8 | 32.3 | 32.3 | 27.8 | 40.7 | 47.3 | 47.3 | 47.3 |  |  |  |  |  |  |  |
| 1996 | 23.9 | 34.5 | 36.2 | 40.6 | 37.6 | 36.2 | 35.6 | 31.3 | 32.3 | 33.7 |  |  |  |  |  |  |
| 1997 | 23.8 | 34.4 | 36.0 | 39.8 | 35.2 | 31.0 | 31.0 | 30.8 | 39.8 | 39.8 | 39.0 |  |  |  |  |  |
| 1998 | 23.1 | 33.6 | 35.8 | 40.1 | 37.0 | 33.5 | 33.9 | 35.1 | 40.8 | 36.4 | 36.5 | 36.6 |  |  |  |  |
| 1999 | 23.1 | 33.6 | 35.7 | 39.8 | 36.4 | 32.0 | 30.5 | 29.8 | 35.8 | 34.8 | 36.8 | 35.5 | 34.5 |  |  |  |
| 2000 | 23.2 | 33.8 | 35.9 | 40.0 | 36.3 | 31.9 | 30.1 | 30.1 | 32.1 | 32.4 | 30.8 | 31.9 | 32.5 | 34.1 |  |  |
| 2001 | 23.2 | 33.5 | 35.7 | 39.8 | 36.2 | 31.7 | 29.5 | 28.2 | 27.4 | 28.5 | 29.3 | 29.5 | 31.4 | 33.2 | 34.3 |  |
| 2002 | 23.2 | 33.5 | 35.7 | 39.8 | 36.3 | 31.7 | 29.7 | 28.4 | 26.5 | 26.0 | 27.2 | 31.9 | 55.7 | 79.2 | 73.4 | 61.3 |

Forecast.

Forecast under status quo exploitation rate.

**Remarks No analytical assesment carried out in 1994. In 1995 the catch at age was derived by using age information taken from the North Sea**