**Assessment Quality Control Diagram 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Average F(5-10) | | | | | | | | | | | | | | |
| Date of | Year | | | | | | | | | | | | | |
| Assessment | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | |
| 1990 | 0.75 |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1991 | 0.64 | 0.67 |  |  |  |  |  |  |  |  |  |  |  |  | |
| 1992 | 0.67 | 0.72 | 0.80 |  |  |  |  |  |  |  |  |  |  |  | |
| 1993 | 0.71 | 0.77 | 0.91 | 0.88 |  |  |  |  |  |  |  |  |  |  | |
| 1994 | 0.68 | 0.72 | 0.78 | 0.78 | 0.82 |  |  |  |  |  |  |  |  |  | |
| 1995 | 0.67 | 0.71 | 0.77 | 0.82 | 0.94 | 0.72 |  |  |  |  |  |  |  |  | |
| 1996 | 0.67 | 0.71 | 0.77 | 0.79 | 0.9 | 0.64 | 0.47 |  |  |  |  |  |  |  | |
| 1997 | 0.68 | 0.72 | 0.78 | 0.81 | 0.93 | 0.68 | 0.52 | 0.57 |  |  |  |  |  |  | |
| 1998 | 0.68 | 0.72 | 0.78 | 0.80 | 0.90 | 0.64 | 0.46 | 0.45 | 0.48 |  |  |  |  |  | |
| 1999 | 0.68 | 0.72 | 0.78 | 0.79 | 0.88 | 0.60 | 0.43 | 0.43 | 0.45 | 0.49 |  |  |  |  | |
| 2000 | 0.68 | 0.72 | 0.78 | 0.80 | 0.90 | 0.64 | 0.47 | 0.50 | 0.58 | 0.66 | 0.57 |  |  |  | |
| 2001 | 0.68 | 0.72 | 0.78 | 0.80 | 0.90 | 0.64 | 0.47 | 0.50 | 0.60 | 0.72 | 0.75 | 0.86 |  |  | |
| 2002 | 0.68 | 0.72 | 0.78 | 0.80 | 0.90 | 0.64 | 0.47 | 0.50 | 0.59 | 0.71 | 0.70 | 0.77 | 0.81 |  | |
| 2003 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Fishable biomass (4+) 000 t | | | | | | | | | | | | | | |
| Date of | Year | | | | | | | | | | | | | |
| Assessment | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
| 1990 | 1087 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 | 1260 | 1018 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 | 1058 | 853 | 732 |  |  |  |  |  |  |  |  |  |  |  |
| 1993 | 1011 | 829 | 711 | 611 |  |  |  |  |  |  |  |  |  |  |
| 1994 | 1032 | 841 | 706 | 565 | 570 |  |  |  |  |  |  |  |  |  |
| 1995 | 1021 | 832 | 696 | 536 | 573 | 632 |  |  |  |  |  |  |  |  |
| 1996 | 1024 | 836 | 700 | 547 | 591 | 650 | 620 |  |  |  |  |  |  |  |
| 1997 | 1021 | 833 | 697 | 540 | 583 | 619 | 612 | 694 |  |  |  |  |  |  |
| 1998 | 1022 | 835 | 701 | 548 | 594 | 624 | 619 | 761 | 950 |  |  |  |  |  |
| 1999 | 1023 | 836 | 704 | 552 | 599 | 618 | 614 | 773 | 993 | 952 |  |  |  |  |
| 2000 | 1022 | 835 | 701 | 546 | 582 | 588 | 566 | 692 | 865 | 806 | 843 |  |  |  |
| 2001 | 1022 | 835 | 701 | 547 | 580 | 577 | 553 | 673 | 786 | 710 | 709 | 527 |  |  |
| 2002 | 1022 | 835 | 701 | 547 | 581 | 579 | 557 | 680 | 795 | 722 | 717 | 547 | 640 |  |
| 2003 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Assessment Quality Control Diagram 2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Recruitment (age 3)Millions | | | | | | | | | | | | | | |
| Date of | Year | | | | | | | | | | | | | |
| Assessment | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
| 1990 | 110 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 | 103 | 148 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 | 86 | 139 | 123 |  |  |  |  |  |  |  |  |  |  |  |
| 1993 | 86 | 141 | 135 | 155 |  |  |  |  |  |  |  |  |  |  |
| 1994 | 81 | 131 | 110 | 150 | 155 |  |  |  |  |  |  |  |  |  |
| 1995 | 81 | 130 | 98 | 177 | 183 | 60 |  |  |  |  |  |  |  |  |
| 1996 | 82 | 131 | 103 | 180 | 182 | 60 | 115 |  |  |  |  |  |  |  |
| 1997 | 82 | 131 | 100 | 180 | 168 | 79 | 125 | 195 |  |  |  |  |  |  |
| 1998 | 83 | 132 | 103 | 181 | 165 | 80 | 166 | 210 | 100 |  |  |  |  |  |
| 1999 | 83 | 133 | 103 | 182 | 157 | 82 | 178 | 228 | 101 | 173 |  |  |  |  |
| 2000 | 83 | 132 | 101 | 174 | 151 | 73 | 162 | 202 | 88 | 170 | 72 |  |  |  |
| 2001 | 83 | 132 | 101 | 173 | 146 | 73 | 158 | 165 | 81 | 158 | 46 | 185 |  |  |
| 2002 | 83 | 132 | 101 | 174 | 146 | 74 | 161 | 165 | 83 | 155 | 54 | 181 | 165 |  |
| 2003 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |