

DataSourceCheck

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Histogram of lumpData\$YEAR

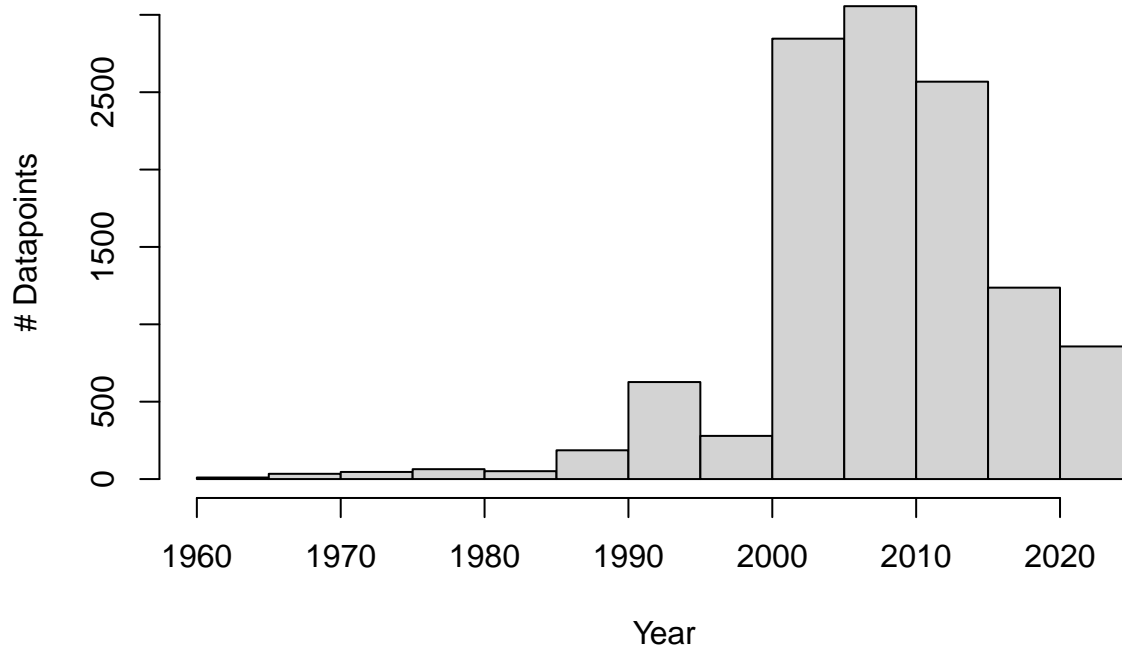


Figure 1: Number of datapoints per year

YEAR	count
1963	3
1964	1
1965	6
1966	3
1967	10
1968	4
1969	8
1970	9
1971	8
1972	7
1973	14
1974	6
1975	11
1976	3
1977	7
1978	16
1979	15
1980	23
1981	13
1982	21
1983	5
1984	7
1985	5
1986	20
1987	18
1988	12
1989	56
1990	80
1991	107
1992	129
1993	176
1994	114
1995	101
1996	64
1997	95
1998	48
1999	28
2000	44
2001	64
2002	86
2003	338
2004	617
2005	1741
2006	427
2007	472
2008	571
2009	750
2010	836
2011	699
2012	405
2013	289
2014	584
2015	591
2016	186
2017	357
2018	265
2019	238
2020	191
2021	849
2022	8

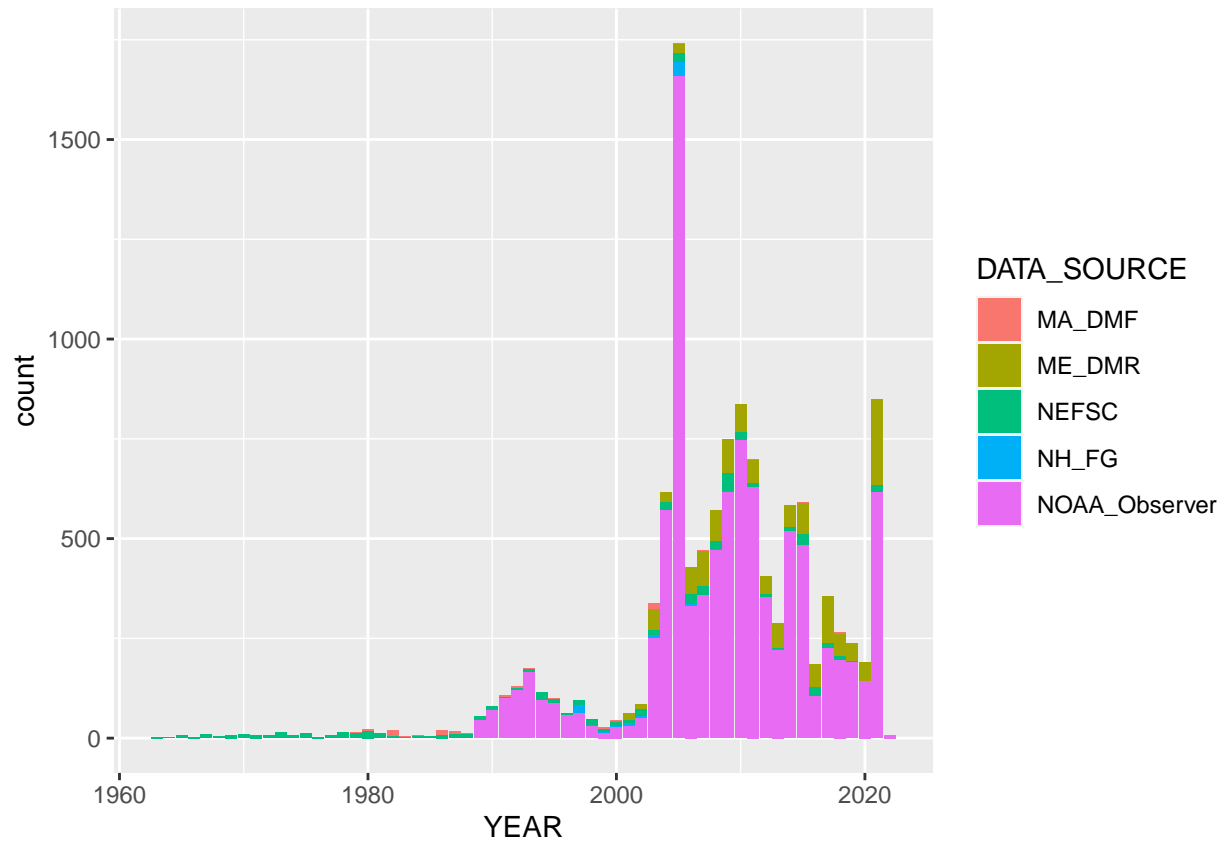


Figure 2: Number of datapoints per year separated by Data Source

Table 2: Year and Source Breakdown (1/2)

YEAR	DATA_SOURCE	count	YEAR	DATA_SOURCE	count
1963	NEFSC	3	1990	NOAA_Observer	70
1964	NEFSC	1	1991	MA_DMF	4
1965	NEFSC	6	1991	NEFSC	3
1966	NEFSC	3	1991	NOAA_Observer	100
1967	NEFSC	10	1992	MA_DMF	4
1968	NEFSC	4	1992	NEFSC	6
1969	NEFSC	8	1992	NOAA_Observer	119
1970	NEFSC	9	1993	MA_DMF	4
1971	NEFSC	8	1993	NEFSC	7
1972	NEFSC	7	1993	NOAA_Observer	165
1973	NEFSC	14	1994	NEFSC	19
1974	NEFSC	6	1994	NOAA_Observer	95
1975	NEFSC	11	1995	MA_DMF	4
1976	NEFSC	3	1995	NEFSC	10
1977	NEFSC	7	1995	NOAA_Observer	87
1978	MA_DMF	2	1996	NEFSC	7
1978	NEFSC	14	1996	NOAA_Observer	57
1979	MA_DMF	3	1997	NEFSC	12
1979	NEFSC	12	1997	NH_FG	21
1980	MA_DMF	5	1997	NOAA_Observer	62
1980	NEFSC	18	1998	MA_DMF	2
1981	MA_DMF	2	1998	NEFSC	13
1981	NEFSC	11	1998	NH_FG	4
1982	MA_DMF	17	1998	NOAA_Observer	29
1982	NEFSC	4	1999	MA_DMF	6
1983	MA_DMF	3	1999	NEFSC	8
1983	NEFSC	2	1999	NH_FG	1
1984	MA_DMF	2	1999	NOAA_Observer	13
1984	NEFSC	5	2000	MA_DMF	1
1985	NEFSC	5	2000	ME_DMR	3
1986	MA_DMF	12	2000	NEFSC	10
1986	NEFSC	8	2000	NH_FG	2
1987	MA_DMF	8	2000	NOAA_Observer	28
1987	NEFSC	10	2001	MA_DMF	2
1988	MA_DMF	3	2001	ME_DMR	17
1988	NEFSC	9	2001	NEFSC	7
1989	NEFSC	11	2001	NH_FG	8
1989	NOAA_Observer	45	2001	NOAA_Observer	30
1990	MA_DMF	1	2002	MA_DMF	1
1990	NEFSC	9	2002	ME_DMR	13

YEAR	MinLat	MaxLat	MinLong	MaxLong
1963	41.83333	43.35000	-69.96667	-68.53333
1964	44.05000	44.05000	-68.21667	-68.21667
1965	40.45000	43.61667	-68.80000	-65.75000
1966	41.56667	43.05000	-70.25000	-68.68333
1967	41.25000	43.45000	-69.88333	-64.60000

(continued)

YEAR	MinLat	MaxLat	MinLong	MaxLong
1968	41.56667	43.03333	-70.61667	-65.63333
1969	40.58333	44.65000	-69.98333	-64.70000
1970	40.63333	43.61667	-70.00000	-64.50000
1971	41.78333	43.95000	-68.58333	-64.46667
1972	42.20000	44.28333	-70.25000	-66.56667
1973	41.43333	44.20000	-70.28333	-64.13333
1974	42.91667	43.41667	-70.11667	-64.11667
1975	42.25000	44.16667	-70.20000	-66.98333
1976	41.73333	43.75000	-69.76667	-64.28333
1977	40.90000	44.30000	-69.66667	-65.83333
1978	41.08333	44.21667	-70.42267	-63.90000
1979	41.35000	44.35000	-70.92517	-65.38333
1980	39.20000	44.30000	-74.55000	-65.35000
1981	40.85000	44.31667	-70.75117	-65.21667
1982	41.74217	43.71667	-70.74250	-65.45000
1983	42.70817	43.90000	-70.75083	-68.43333
1984	42.06767	44.31667	-70.63950	-66.41667
1985	41.40000	44.01667	-70.40000	-66.63333
1986	41.97450	44.31667	-70.71350	-66.60000
1987	41.85000	44.35000	-70.73333	-66.70000
1988	42.31667	44.11667	-70.69883	-66.58333
1989	39.51862	44.28224	-72.39420	-65.95000
1990	40.41691	44.26667	-70.87109	-66.41667
1991	40.41691	44.28224	-70.79617	-67.44059
1992	39.51862	44.28224	-72.39420	-66.63333
1993	40.49857	44.28224	-71.46660	-66.52396
1994	40.49857	44.16667	-71.46660	-66.58333
1995	39.49140	44.28224	-73.50714	-67.39261
1996	41.23352	43.68333	-70.53333	-66.60000
1997	40.41691	44.41667	-70.85419	-66.36667
1998	39.49140	44.11667	-73.50714	-66.71667
1999	40.01933	44.21433	-71.46660	-66.58733
2000	37.01467	44.58780	-74.73383	-66.36767
2001	39.51862	44.65595	-72.39420	-66.75609
2002	41.72350	44.53153	-70.85419	-66.59317
2003	40.41691	44.59635	-71.46660	-66.79142
2004	38.51146	44.77074	-73.50994	-66.16967
2005	39.49140	44.62450	-73.50714	-66.49225
2006	40.41691	44.50639	-70.82003	-66.46847
2007	40.41691	44.76868	-70.95550	-66.74728
2008	40.41691	44.72416	-70.87109	-66.63096
2009	37.50430	44.52421	-74.51710	-66.64065
2010	37.50430	44.64460	-74.51710	-67.10059
2011	40.60745	44.65062	-70.87109	-66.79142
2012	41.72350	44.52500	-70.60698	-67.15181
2013	38.51146	44.44257	-73.50994	-66.76661
2014	40.60745	44.68487	-70.87109	-67.11232
2015	40.41691	44.49910	-70.87109	-66.76661
2016	39.51862	44.59638	-72.49803	-66.44018
2017	35.48997	44.73924	-75.28286	-66.79142
2018	40.96812	44.68482	-70.67387	-66.09097
2019	41.72350	44.66759	-70.63820	-67.09868
2020	38.51146	44.74422	-73.50994	-67.01329
2021	40.41691	44.73650	-70.71811	-66.93450
2022	42.40401	42.40401	-70.37739	-70.37739

Table 3: Year and Source Breakdown (2/2)

YEAR	DATA_SOURCE	count	YEAR	DATA_SOURCE	count
2002	NEFSC	17	2011	NEFSC	9
2002	NH_FG	5	2011	NOAA_Observer	629
2002	NOAA_Observer	50	2012	ME_DMR	43
2003	MA_DMF	15	2012	NEFSC	10
2003	ME_DMR	54	2012	NOAA_Observer	352
2003	NEFSC	11	2013	MA_DMF	1
2003	NH_FG	9	2013	ME_DMR	61
2003	NOAA_Observer	249	2013	NEFSC	5
2004	ME_DMR	25	2013	NH_FG	1
2004	NEFSC	20	2013	NOAA_Observer	221
2004	NH_FG	2	2014	ME_DMR	55
2004	NOAA_Observer	570	2014	NEFSC	11
2005	MA_DMF	2	2014	NOAA_Observer	518
2005	ME_DMR	23	2015	MA_DMF	1
2005	NEFSC	21	2015	ME_DMR	80
2005	NH_FG	37	2015	NEFSC	26
2005	NOAA_Observer	1658	2015	NH_FG	2
2006	ME_DMR	68	2015	NOAA_Observer	482
2006	NEFSC	23	2016	ME_DMR	57
2006	NH_FG	5	2016	NEFSC	25
2006	NOAA_Observer	331	2016	NOAA_Observer	104
2007	MA_DMF	5	2017	MA_DMF	2
2007	ME_DMR	86	2017	ME_DMR	118
2007	NEFSC	23	2017	NEFSC	12
2007	NOAA_Observer	358	2017	NOAA_Observer	225
2008	ME_DMR	78	2018	MA_DMF	4
2008	NEFSC	20	2018	ME_DMR	56
2008	NH_FG	3	2018	NEFSC	9
2008	NOAA_Observer	470	2018	NOAA_Observer	196
2009	MA_DMF	1	2019	MA_DMF	1
2009	ME_DMR	84	2019	ME_DMR	44
2009	NEFSC	47	2019	NEFSC	3
2009	NH_FG	3	2019	NOAA_Observer	190
2009	NOAA_Observer	615	2020	ME_DMR	48
2010	ME_DMR	70	2020	NOAA_Observer	143
2010	NEFSC	19	2021	MA_DMF	1
2010	NH_FG	1	2021	ME_DMR	214
2010	NOAA_Observer	746	2021	NEFSC	18
2011	MA_DMF	1	2021	NOAA_Observer	616
2011	ME_DMR	60	2022	NOAA_Observer	8

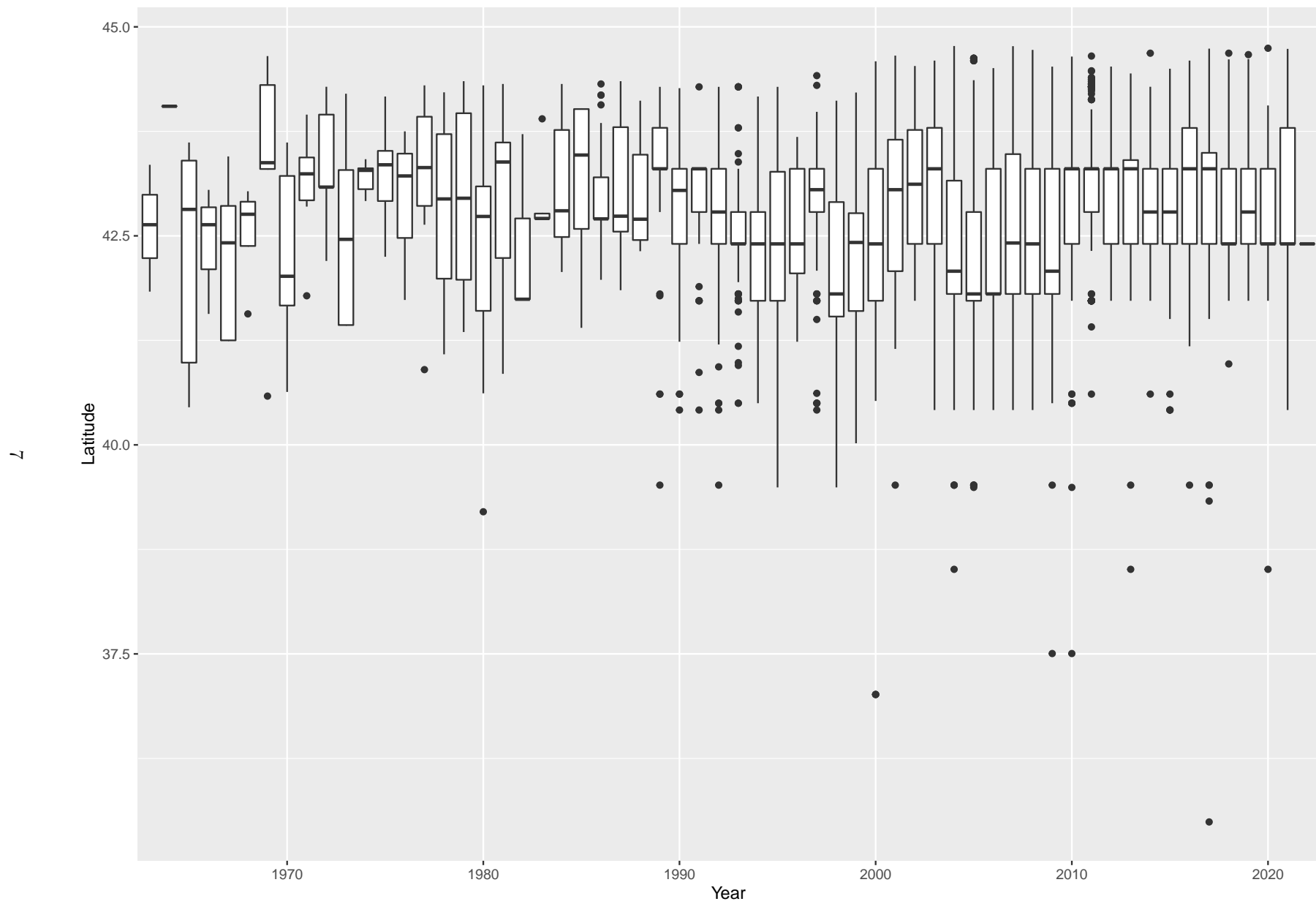


Figure 3: Range of latitudes Lumpfish were collected at per year

Source	Gear.Type	Negative.Catch.
MA_DMFB	Trawl net is a ¾ size North Atlantic type two seam otter trawl (39' headrope/51' footrope) rigged with a 3.5" rubber disc sweep and a ¼" knotless codend liner (1/2" stretched mesh)	Yes
ME_DNR	Modified shrimp net with a 2-inch mesh in wings and 1-inch mesh liner in the cod end	No
NEFSC	Varies	Yes
NH_FG	Bag seine 30.5 m long and 1.8 m high with 6.4 mm mesh	No
NOAA_OBSERVER	NA	No

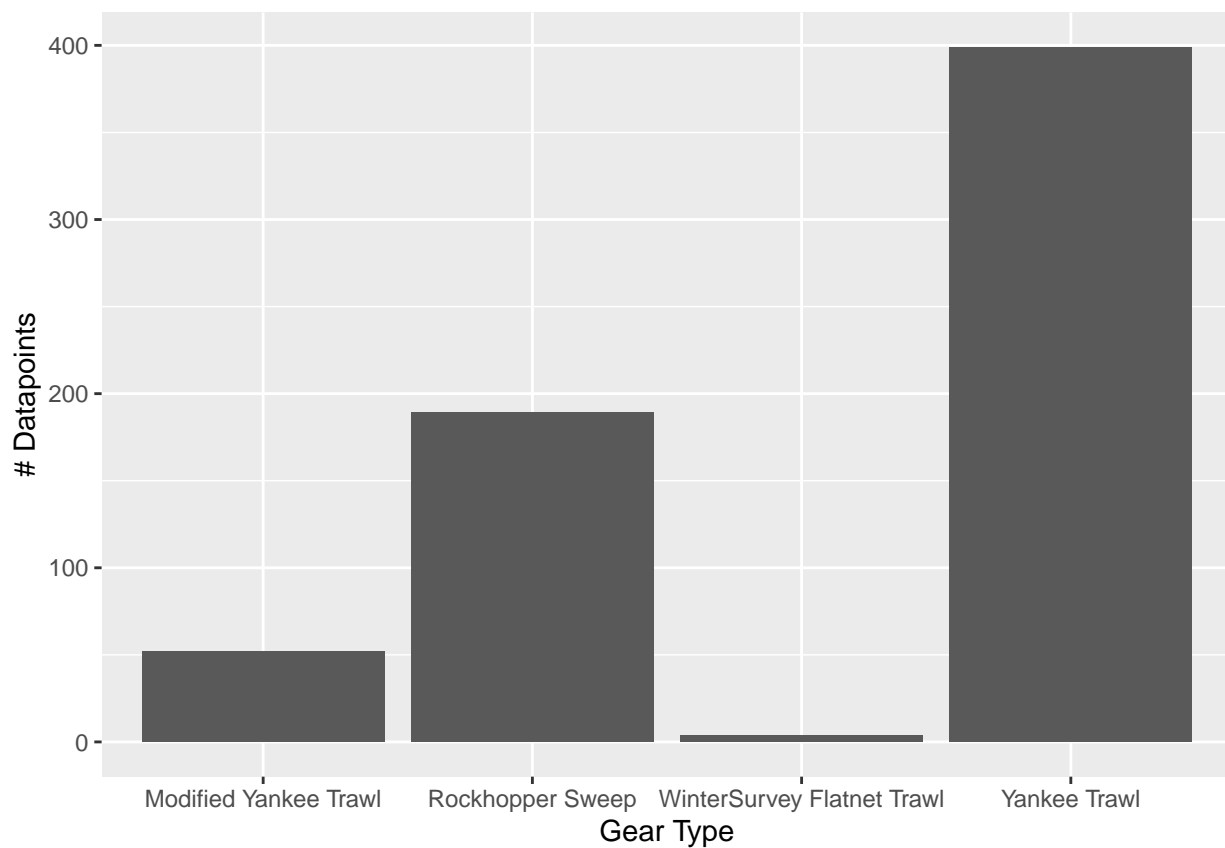


Figure 4: Gear Types used by NEFSC Dataset