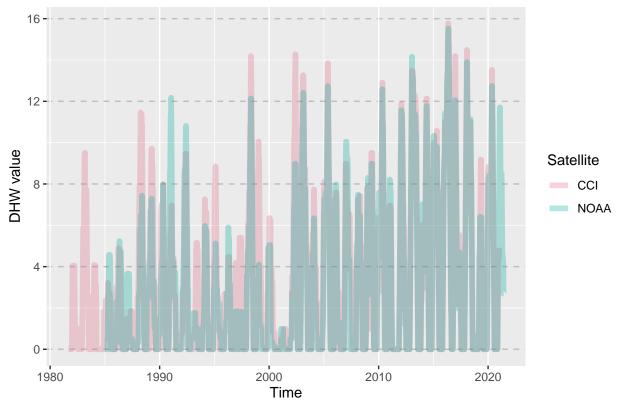
Degree Heating Week Analysis

Vanessa

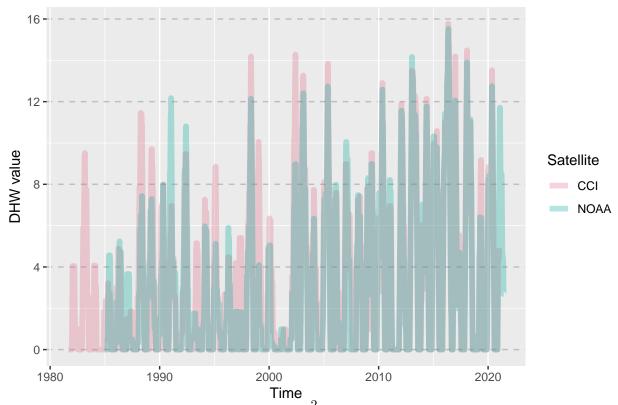
2021-09-13

Degree Heating Week Time Series Plots for CCI and NOAA data:

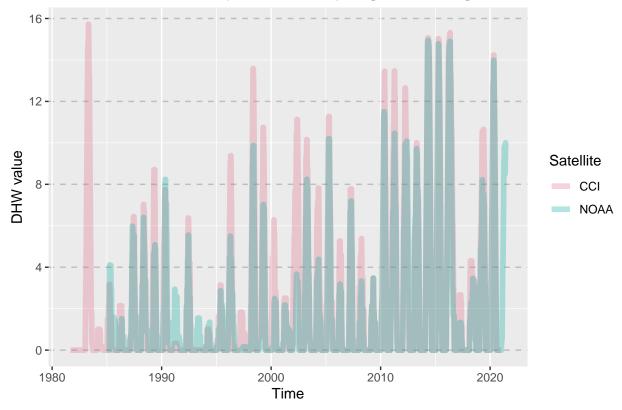
Time Series of BRS05 (-14.11, 123.54) Degree Heating Week values



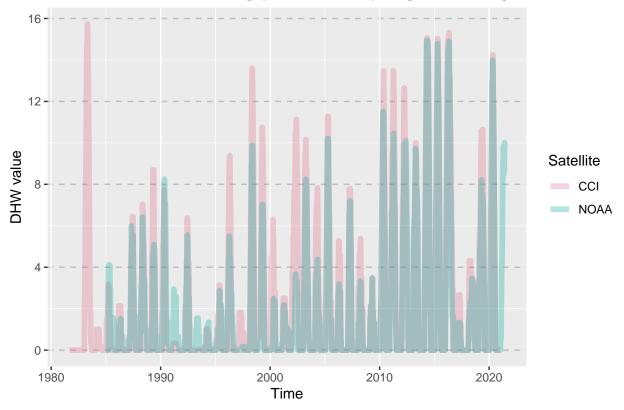
Time Series of BRS07 (-14.12, 123.55) Degree Heating Week values



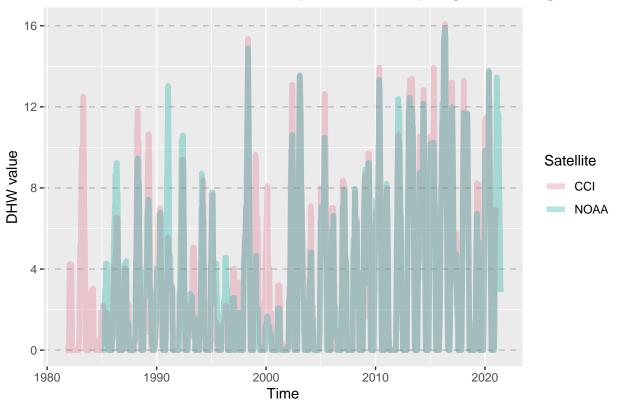




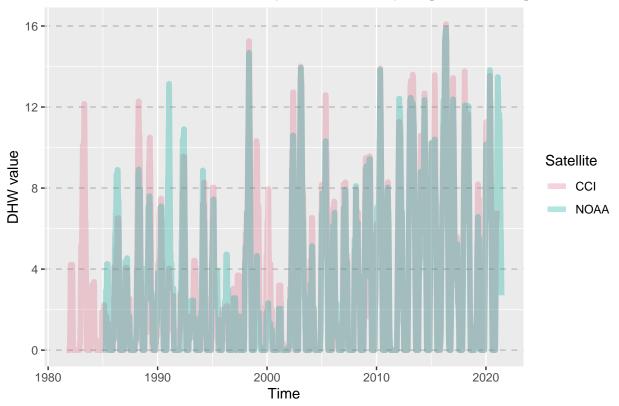


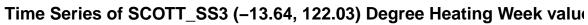


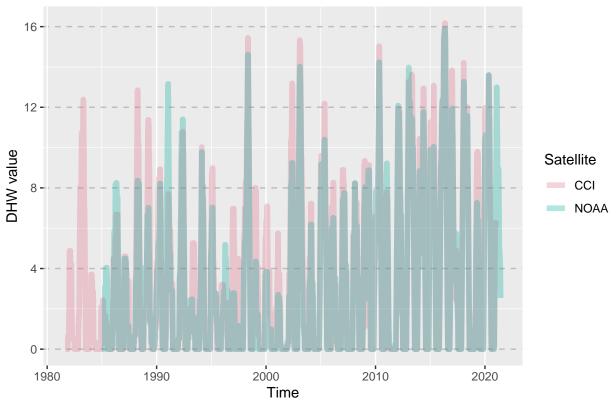




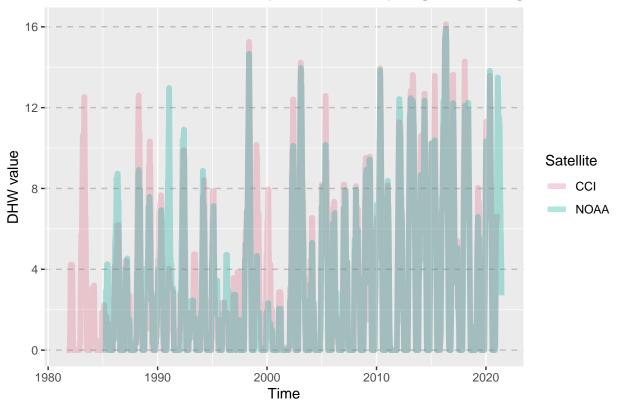


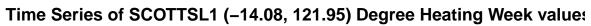


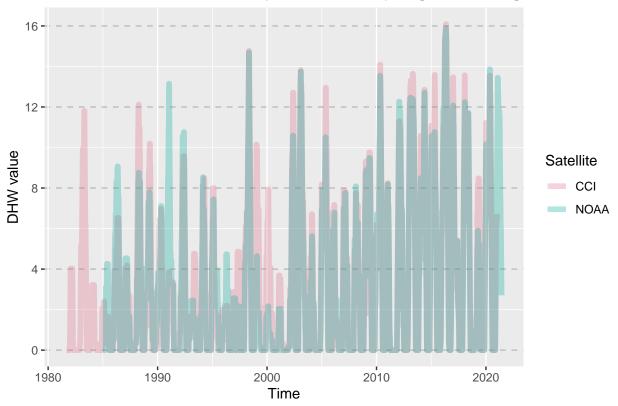


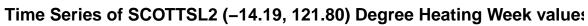


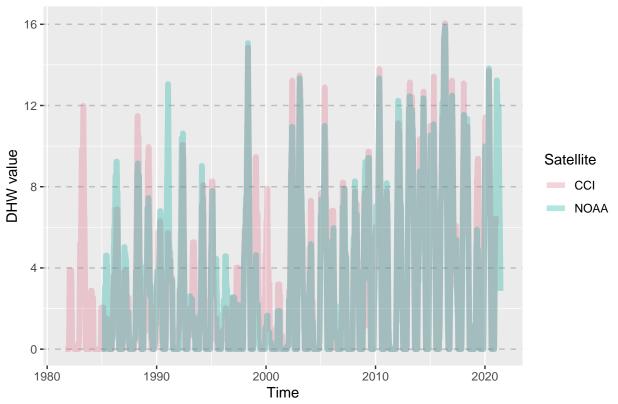


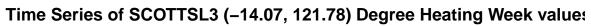


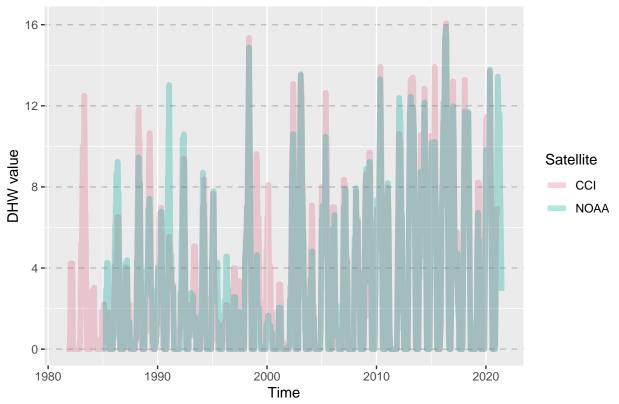




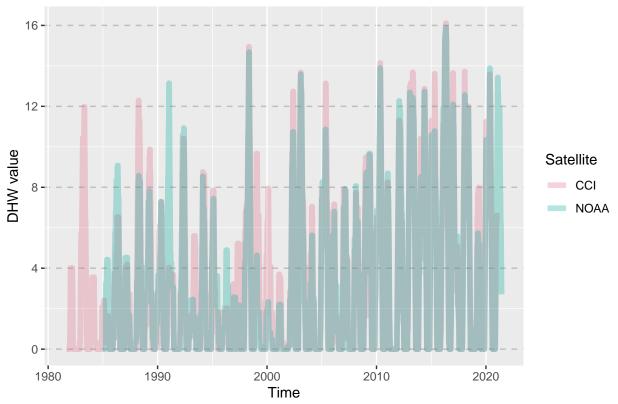




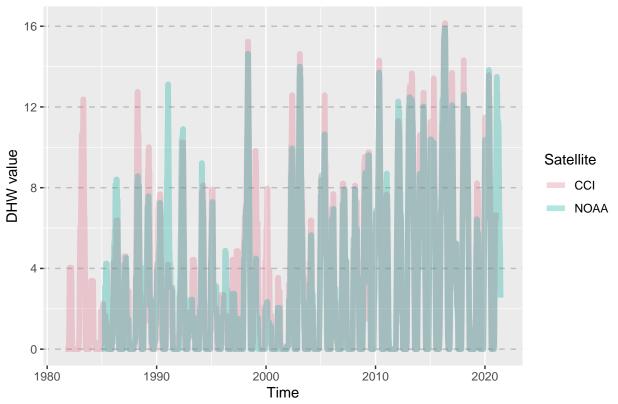




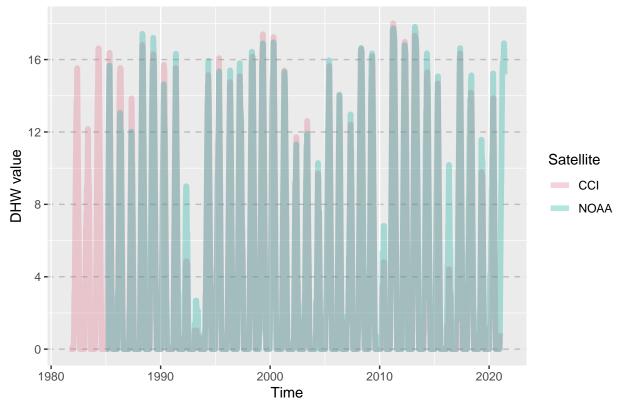


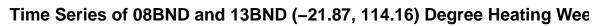


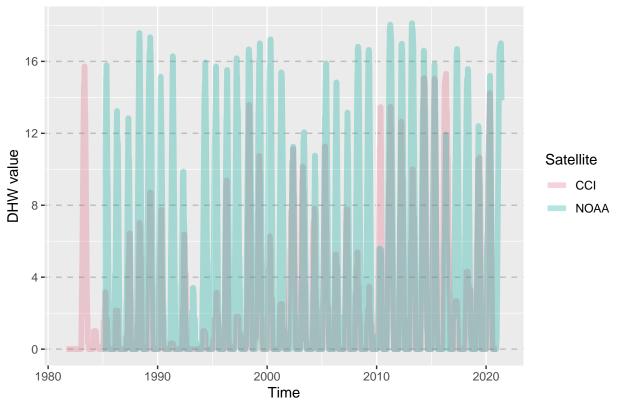


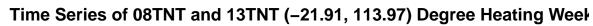


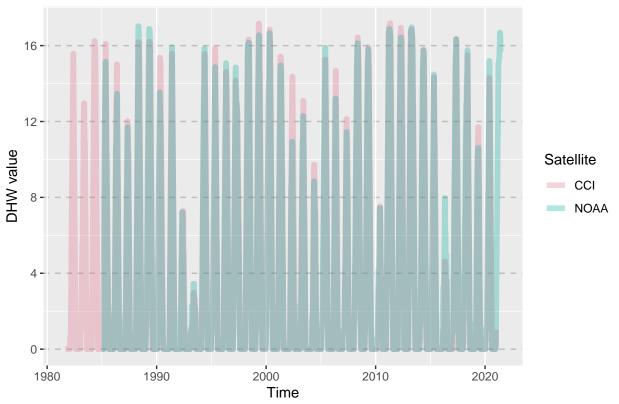




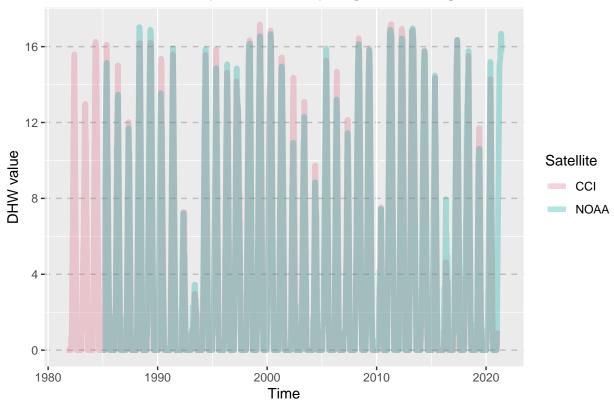




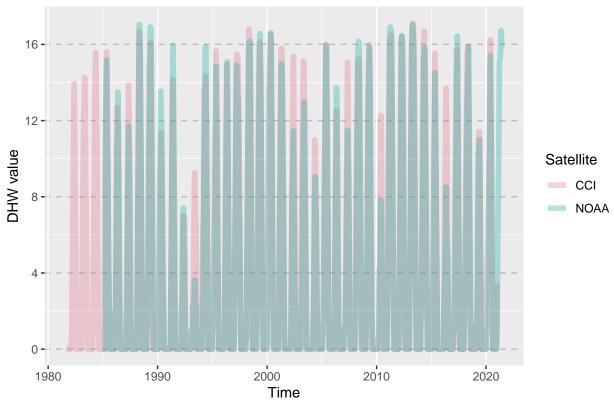




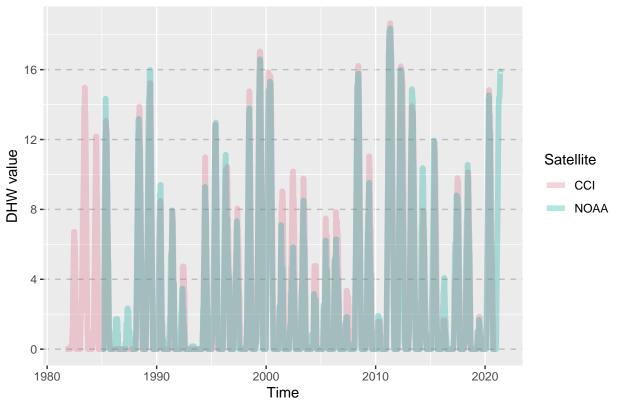




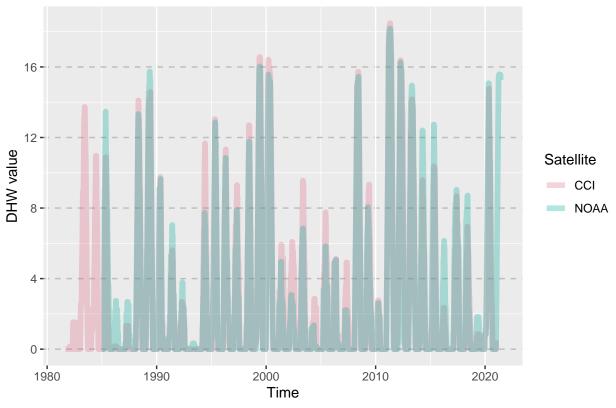


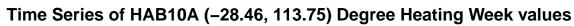


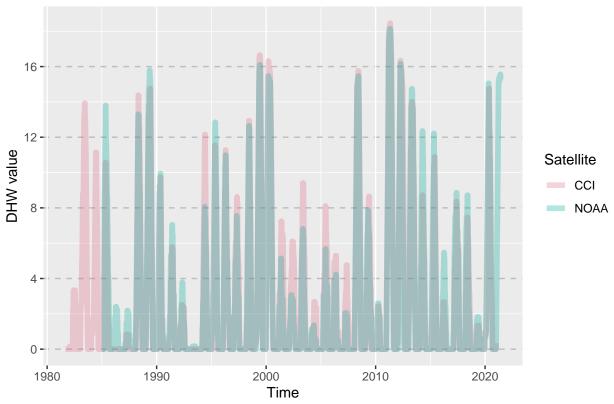




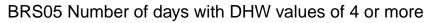


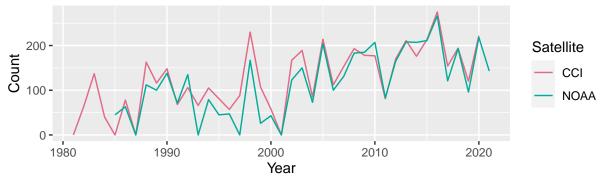






$BRS05\ Yearly\ Sum$ of Moderate and High DHW Values in CCI and NOAA data





BRS05 Number of days with DHW values of 8 or more

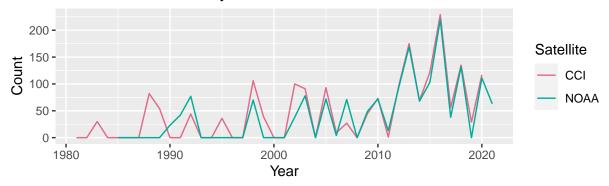


Table 1: Number of Days with Degree Heating Week values of 4 or more

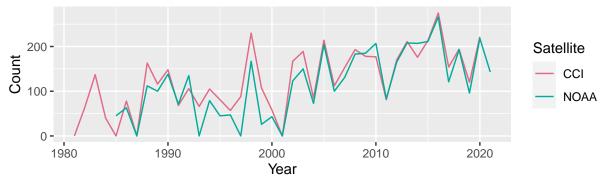
Year	CCI_DHW4	Year	NOAA_DHW4
2016	275	2016	266
1998	230	2020	218
2020	222	2015	211
2005	214	2013	208
2015	213	2010	207
2013	211	2014	207
2018	194	2005	204
2008	193	2018	193
2003	189	2009	185
2009	178	2008	183
2010	177	1998	167
2014	176	2012	165
2012	170	2003	150
2002	167	2021	143
1988	163	1990	138
2017	154	1992	135
2007	153	2007	131
1990	148	2002	123
1983	137	2017	121
2019	120	1988	112
1989	116	1989	100
2006	112	2006	100
1999	107	2019	96
1992	106	2011	83
1994	105	1994	79
1997	88	2004	73
2004	85	1991	71
1995	81	1986	63
2011	81	1996	47
1986	78	1985	45
1991	68	1995	45
1993	66	2000	43
1982	64	1999	26
2000	58	1987	0
1996	57	1993	0
1984	40	1997	0
1981	0	2001	0
1985	0	1981	NA
1987	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 2: Number of Days with Degree Heating Week values of 8 or more

Year 2016 2013 2018 2015 2020 1998 2002 2012 2005	CCI_DHW8 229 175 135 122 117	Year 2016 2013 2018 2020	NOAA_DHW8 220 169 132
2013 2018 2015 2020 1998 2002 2012	175 135 122 117	2013 2018	169 132
2018 2015 2020 1998 2002 2012	135 122 117	2018	132
2015 2020 1998 2002 2012	122 117		
2020 1998 2002 2012	117	2020	
1998 2002 2012			111
2002 2012	100	2015	103
2012	106	2012	93
	100	2003	78
2005	96	1992	77
	93	2005	72
2003	91	2010	72
1988	82	2007	71
2010	73	1998	70
2014	69	2014	68
2017	56	2021	63
1989	54	2009	49
2009	45	1991	42
1992	44	2002	38
1999	39	2017	38
1995	36	1990	23
1983	30	2011	13
2019	29	2006	4
2007	27	1985	0
2006	9	1986	0
2011	1	1987	0
1981	0	1988	0
1982	0	1989	0
1984	0	1993	0
1985	0	1994	0
1986	0	1995	0
1987	0	1996	0
1990	0	1997	0
1991	0	1999	0
1993	0	2000	0
1994	0	2001	0
1996	0	2004	0
1997	0	2008	0
2000	0	2019	0
2001	0	1981	NA
2004	0	1982	NA
2008	0	1983	NA
2021	NA	1984	NA

BRS07 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

BRS07 Number of days with DHW values of 4 or more



BRS07 Number of days with DHW values of 8 or more

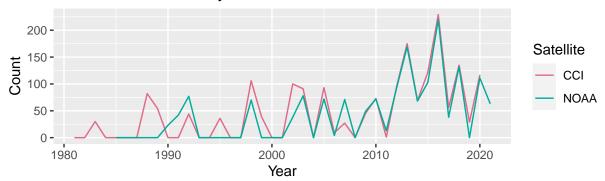


Table 3: Number of Days with Degree Heating Week values of 4 or more

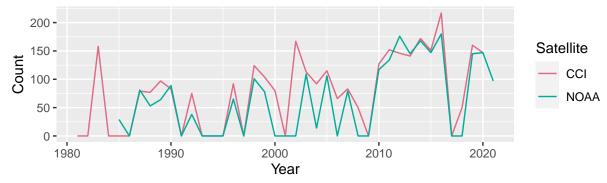
Year	CCI_DHW4	Year	NOAA_DHW4
2016	275	2016	266
1998	230	2020	218
2020	222	2015	211
2005	214	2013	208
2015	213	2010	207
2013	211	2014	207
2018	194	2005	204
2008	193	2018	193
2003	189	2009	185
2009	178	2008	183
2010	177	1998	167
2014	176	2012	165
2012	170	2003	150
2002	167	2021	143
1988	163	1990	138
2017	154	1992	135
2007	153	2007	131
1990	148	2002	123
1983	137	2017	121
2019	120	1988	112
1989	116	1989	100
2006	112	2006	100
1999	107	2019	96
1992	106	2011	83
1994	105	1994	79
1997	88	2004	73
2004	85	1991	71
1995	81	1986	63
2011	81	1996	47
1986	78	1985	45
1991	68	1995	45
1993	66	2000	43
1982	64	1999	26
2000	58	1987	0
1996	57	1993	0
1984	40	1997	0
1981	0	2001	0
1985	0	1981	NA
1987	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 4: Number of Days with Degree Heating Week values of 8 or more

Year 2016 2013 2018 2015 2020 1998 2002 2012 2005	CCI_DHW8 229 175 135 122 117	Year 2016 2013 2018 2020	NOAA_DHW8 220 169 132
2013 2018 2015 2020 1998 2002 2012	175 135 122 117	2013 2018	169 132
2018 2015 2020 1998 2002 2012	135 122 117	2018	132
2015 2020 1998 2002 2012	122 117		
2020 1998 2002 2012	117	2020	
1998 2002 2012			111
2002 2012	100	2015	103
2012	106	2012	93
	100	2003	78
2005	96	1992	77
	93	2005	72
2003	91	2010	72
1988	82	2007	71
2010	73	1998	70
2014	69	2014	68
2017	56	2021	63
1989	54	2009	49
2009	45	1991	42
1992	44	2002	38
1999	39	2017	38
1995	36	1990	23
1983	30	2011	13
2019	29	2006	4
2007	27	1985	0
2006	9	1986	0
2011	1	1987	0
1981	0	1988	0
1982	0	1989	0
1984	0	1993	0
1985	0	1994	0
1986	0	1995	0
1987	0	1996	0
1990	0	1997	0
1991	0	1999	0
1993	0	2000	0
1994	0	2001	0
1996	0	2004	0
1997	0	2008	0
2000	0	2019	0
2001	0	1981	NA
2004	0	1982	NA
2008	0	1983	NA
2021	NA	1984	NA

DAR3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

DAR3 Number of days with DHW values of 4 or more



DAR3 Number of days with DHW values of 8 or more

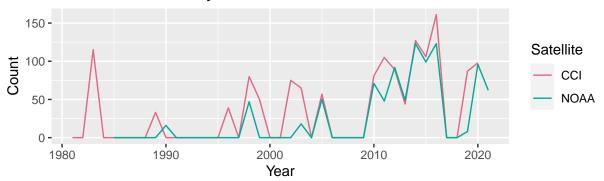


Table 5: Number of Days with Degree Heating Week values of 4 or more

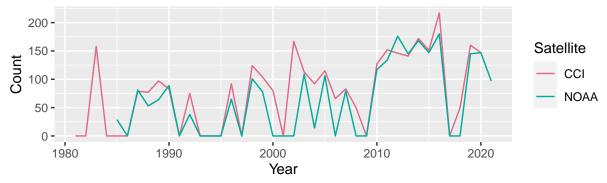
Year	CCI DHW4	Year	NOAA DIIWA
2010	001		NOAA_DHW4
2016	217	2016	180
2014	172	2012	176
2002	167	2014	168
2019	160	2015	147
1983	158	2020	147
2011	152	2013	145
2015	151	2019	145
2020	147	2011	134
2012	146	2010	117
2013	141	2003	109
2010	127	2005	106
1998	124	1998	101
2005	115	2021	97
2003	113	1990	89
1999	104	1987	81
1989	97	2007	79
1996	92	1999	78
2004	92	1996	65
1990	83	1989	64
2007	83	1988	53
2000	80	1992	38
1987	79	1985	29
1988	77	2004	14
1992	75	1986	0
2006	66	1991	0
2008	50	1993	0
2018	50	1994	0
1981	0	1995	0
1982	0	1997	0
1984	0	2000	0
1985	0	2001	0
1986	0	2002	0
1991	0	2006	0
1993	0	2008	0
1994	0	2009	0
1995	0	_2017	0
1997	0	2018	0
2001	0	1981	NA
2009	0	1982	NA
2017	0	1983	NA
2021	NA	1984	NA

Table 6: Number of Days with Degree Heating Week values of 8 or more

Year	CCI_DHW8	Year	NOAA_DHW8
2016	161	2014	123
2014	127	2016	123
1983	115	2015	99
2015	106	2020	96
2011	105	2012	92
2020	98	2010	71
2012	89	2021	62
2019	87	2005	50
2010	81	2013	49
1998	80	2011	48
2002	75	1998	47
2003	65	2003	18
2005	57	1990	16
1999	50	2019	8
2013	44	1985	0
1996	39	1986	0
1989	33	1987	0
1981	0	1988	0
1982	0	1989	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1990	0	1996	0
1991	0	1997	0
1992	0	1999	0
1993	0	2000	0
1994	0	2001	0
1995	0	2002	0
1997	0	2004	0
2000	0	2006	0
2001	0	2007	0
2004	0	2008	0
2006	0	2009	0
2007	0	2017	0
2008	0	2018	0
2009	0	1981	NA
2017	0	1982	NA
2018	0	1983	NA
2021	NA	1984	NA

DAR Long Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

DARL Number of days with DHW values of 4 or more



DARL Number of days with DHW values of 8 or more

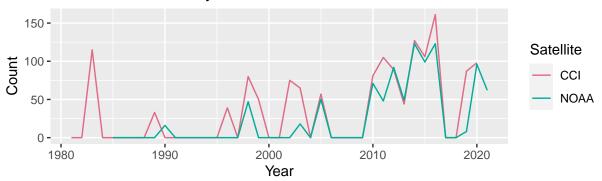


Table 7: Number of Days with Degree Heating Week values of 4 or more

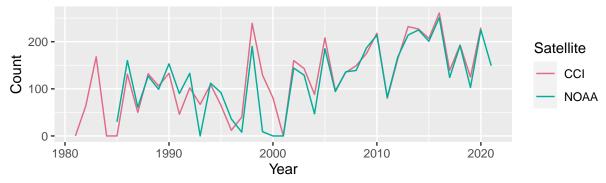
Year	CCI DHW4	Year	NOAA DIIWA
2010	001		NOAA_DHW4
2016	217	2016	180
2014	172	2012	176
2002	167	2014	168
2019	160	2015	147
1983	158	2020	147
2011	152	2013	145
2015	151	2019	145
2020	147	2011	134
2012	146	2010	117
2013	141	2003	109
2010	127	2005	106
1998	124	1998	101
2005	115	2021	97
2003	113	1990	89
1999	104	1987	81
1989	97	2007	79
1996	92	1999	78
2004	92	1996	65
1990	83	1989	64
2007	83	1988	53
2000	80	1992	38
1987	79	1985	29
1988	77	2004	14
1992	75	1986	0
2006	66	1991	0
2008	50	1993	0
2018	50	1994	0
1981	0	1995	0
1982	0	1997	0
1984	0	2000	0
1985	0	2001	0
1986	0	2002	0
1991	0	2006	0
1993	0	2008	0
1994	0	2009	0
1995	0	_2017	0
1997	0	2018	0
2001	0	1981	NA
2009	0	1982	NA
2017	0	1983	NA
2021	NA	1984	NA

Table 8: Number of Days with Degree Heating Week values of 8 or more

Year	CCI_DHW8	Year	NOAA_DHW8
2016	161	2014	123
2014	127	2016	123
1983	115	2015	99
2015	106	2020	96
2011	105	2012	92
2020	98	2010	71
2012	89	2021	62
2019	87	2005	50
2010	81	2013	49
1998	80	2011	48
2002	75	1998	47
2003	65	2003	18
2005	57	1990	16
1999	50	2019	8
2013	44	1985	0
1996	39	1986	0
1989	33	1987	0
1981	0	1988	0
1982	0	1989	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1990	0	1996	0
1991	0	1997	0
1992	0	1999	0
1993	0	2000	0
1994	0	2001	0
1995	0	2002	0
1997	0	2004	0
2000	0	2006	0
2001	0	2007	0
2004	0	2008	0
2006	0	2009	0
2007	0	2017	0
2008	0	2018	0
2009	0	1981	NA
2017	0	1982	NA
2018	0	1983	NA
2021	NA	1984	NA

SCOTT_RPO_1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

SCOTT_RPO_1 Number of days with DHW values of 4 or more



SCOTT_RPO_1 Number of days with DHW values of 8 or more

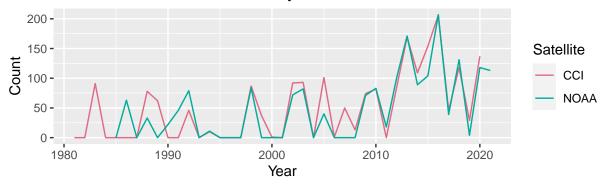


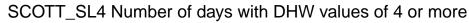
Table 9: Number of Days with Degree Heating Week values of 4 or more

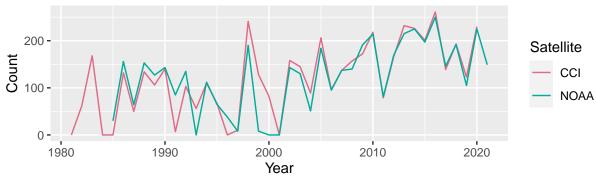
Year CCI_DHW4 Year NOAA_DHW4 2016 261 2016 251 1998 239 2014 225 2013 232 2020 225 2020 230 2010 214 2014 227 2013 214 2010 218 2015 201 2005 208 2018 192 2015 207 1998 190 2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988				
1998 239 2014 225 2013 232 2020 225 2020 230 2010 214 2014 227 2013 214 2010 218 2015 201 2005 208 2018 192 2015 207 1998 190 2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 <td>Year</td> <td>CCI_DHW4</td> <td>Year</td> <td>NOAA_DHW4</td>	Year	CCI_DHW4	Year	NOAA_DHW4
2013 232 2020 225 2020 230 2010 214 2014 227 2013 214 2010 218 2015 201 2005 208 2018 192 2015 207 1998 190 2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 102 <td>2016</td> <td>261</td> <td>2016</td> <td></td>	2016	261	2016	
2020 230 2010 214 2014 227 2013 214 2010 218 2015 201 2005 208 2018 192 2015 207 1998 190 2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 103 1988 127 1994 109 <td>1998</td> <td>239</td> <td>2014</td> <td>225</td>	1998	239	2014	225
2014 227 2013 214 2010 218 2015 201 2005 208 2018 192 2015 207 1998 190 2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 103 1988 127 1999 129 2017 124 2019 103 <td>2013</td> <td>232</td> <td>2020</td> <td>225</td>	2013	232	2020	225
2010 218 2015 201 2005 208 2018 192 2015 207 1998 190 2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 <td>2020</td> <td>230</td> <td>2010</td> <td>214</td>	2020	230	2010	214
2005 208 2018 192 2015 207 1998 190 2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1988 132 2003 129 1988 132 2003 129 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 <td>2014</td> <td>227</td> <td>2013</td> <td>214</td>	2014	227	2013	214
2015 207 1998 190 2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88	2010	218	2015	201
2018 193 2009 187 2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2001 80	2005	208	2018	192
2009 175 2005 185 1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80	2015	207	1998	190
1983 168 2012 167 2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67	2018	193	2009	187
2012 163 1986 160 2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 <t< td=""><td>2009</td><td>175</td><td>2005</td><td>185</td></t<>	2009	175	2005	185
2002 160 1990 153 2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2004 88 1991 90 2001 80 1987 61 1993 67 2004 47 1995 65 1996 36 1987 50	1983	168	2012	167
2008 149 2021 149 2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1987 50 19	2012	163	1986	160
2003 143 2002 144 2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999	2002	160	1990	153
2017 139 2008 139 2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1984 0 1981	2008	149	2021	149
2007 135 2007 136 1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1981 0 2001	2003	143	2002	144
1990 133 1992 133 1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981	2017	139	2008	139
1988 132 2003 129 1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 <	2007	135	2007	136
1986 131 1988 127 1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983	1990			
1999 129 2017 124 2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
2019 125 1994 112 1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1994 109 2019 103 1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1989 106 1989 99 1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1992 102 2006 94 2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
2006 96 1995 92 2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
2004 88 1991 90 2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
2000 81 2011 82 2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
2011 80 1987 61 1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA		88		
1993 67 2004 47 1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1995 65 1996 36 1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA			1987	
1982 64 1985 30 1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1987 50 1999 9 1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1991 46 1997 8 1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				30
1997 40 1993 0 1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1996 12 2000 0 1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1981 0 2001 0 1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1984 0 1981 NA 1985 0 1982 NA 2001 0 1983 NA				
1985 0 1982 NA 2001 0 1983 NA				_
2001 0 1983 NA				
2024 374 122				
2021 NA 1984 NA	2021	NA	1984	NA

Table 10: Number of Days with Degree Heating Week values of 8 or more

2016 206 2016 20 2013 169 2013 1 2015 154 2018 1 2020 137 2020 1 2018 118 2021 1 2014 109 2015 10 2005 101 2012 10 2003 93 2014 3 2002 92 1998 3 2002 92 1998 3 1983 91 2010 3 2012 85 1992 3 2010 82 2002 3 1988 78 2003 3 2010 82 2002 3 1988 78 2009 4 1989 62 1991 3 2007 50 2005 3 1992 46 2017 3 2017 46 1988 3				
2013 169 2013 1 2015 154 2018 1 2020 137 2020 1 2018 118 2021 1 2014 109 2015 10 2005 101 2012 10 2003 93 2014 20 2002 92 1998 3 1983 91 2010 3 1998 87 2003 3 2012 85 1992 3 2010 82 2002 3 1988 78 2009 3 2009 74 1986 4 1989 62 1991 3 2007 50 2005 3 1992 46 2017 3 2017 46 1988 3 1999 37 1990 3 2019 29 2011 201	Year	CCI_DHW8	Year	NOAA_DHW8
2015 154 2018 1. 2020 137 2020 1 2018 118 2021 1 2014 109 2015 10 2005 101 2012 10 2003 93 2014 3 2002 92 1998 3 1983 91 2010 3 1998 87 2003 3 2012 85 1992 3 2010 82 2002 3 1988 78 2009 3 2010 82 2002 3 2099 74 1986 9 1989 62 1991 9 2007 50 2005 1 1992 46 2017 2 2017 46 1988 3 1999 37 1990 3 2008 13 1994 1 </td <td>2016</td> <td>206</td> <td>2016</td> <td>207</td>	2016	206	2016	207
2020 137 2020 1 2018 118 2021 1 2014 109 2015 10 2005 101 2012 10 2003 93 2014 20 2002 92 1998 3 1983 91 2010 3 1998 87 2003 3 2012 85 1992 3 2010 82 2002 3 1988 78 2009 3 2010 82 2002 3 1988 78 2009 3 2009 74 1986 6 1989 62 1991 6 2007 50 2005 1 1992 46 2017 2017 2018 2017 46 1988 3 1999 37 1990 3 2008 13 1994	2013	169	2013	171
2018 118 2021 1 2005 101 2012 10 2003 93 2014 202 2002 92 1998 3 1983 91 2010 3 1998 87 2003 3 2012 85 1992 3 2010 82 2002 3 1988 78 2009 3 2009 74 1986 4 1989 62 1991 3 2007 50 2005 3 1992 46 2017 3 2017 46 1988 3 1999 37 1990 3 2019 29 2011 2019 2019 2008 13 1994 1994 1994 1994 1994 1994 1995 1998 1998 1998 1998 1998 1998 1998 1998		154	2018	131
2014 109 2015 10 2003 93 2014 202 2002 92 1998 2010 1983 91 2010 2010 1998 87 2003 202 2012 85 1992 202 2010 82 2002 202 1988 78 2009 202 2009 74 1986 6 1989 62 1991 2005 1992 46 2017 2019 2017 46 1988 30 1999 37 1990 30 2019 29 2011 2019 2011 2008 13 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1993 1995 1995 1996 1996 1997 1987 0 1999 1999 1990	2020	137	2020	118
2005 101 2012 10 2003 93 2014 2002 92 1998 1983 91 2010 2010 2010 2010 2012 2010 2012 2010 2012 2010 2012 2010 2012 2010	2018	118	2021	113
2003 93 2014 2002 92 1998 1983 91 2010 1998 87 2003 2012 85 1992 2010 82 2002 1988 78 2009 2009 74 1986 1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2006 1 1985 2006 1 1987 1981 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 <t< td=""><td>2014</td><td>109</td><td>2015</td><td>104</td></t<>	2014	109	2015	104
2002 92 1998 1983 91 2010 1998 87 2003 2012 85 1992 2010 82 2002 1988 78 2009 2009 74 1986 1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2006 1 1985 2006 1 1987 1981 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2004 1995 0 <td< td=""><td>2005</td><td>101</td><td></td><td>101</td></td<>	2005	101		101
1983 91 2010 1998 87 2003 2012 85 1992 2010 82 2002 1988 78 2009 2009 74 1986 1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0	2003	93	2014	89
1998 87 2003 2012 85 1992 2010 82 2002 1988 78 2009 2009 74 1986 1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2004 1995 0 2006 1996 0 2	2002	92	1998	84
2012 85 1992 2010 82 2002 1988 78 2009 2009 74 1986 1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1993 1982 0 1993 1984 0 1995 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2004 1995 0 2006 1996 0 2006 1996 0 2007	1983	91	2010	83
2010 82 2002 1988 78 2009 2009 74 1986 1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007	1998	87	2003	82
1988 78 2009 2009 74 1986 1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007	2012	85	1992	79
2009 74 1986 1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007	2010	82	2002	72
1989 62 1991 2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1993 1982 0 1993 1984 0 1995 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007	1988	78	2009	71
2007 50 2005 1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2004 1995 0 2006 1996 0 2007	2009	74		63
1992 46 2017 2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2004 1995 0 2006 1996 0 2007	1989	62		46
2017 46 1988 1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1995 0 2006 1996 0 2006 1996 0 2007		50		40
1999 37 1990 2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1995 0 2006 1996 0 2007		46		39
2019 29 2011 2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007				33
2008 13 1994 1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2004 1995 0 2006 1996 0 2007				22
1994 10 2019 2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2004 1995 0 2006 1996 0 2007				18
2000 1 1985 2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2004 1995 0 2006 1996 0 2007				11
2006 1 1987 1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007		10		4
1981 0 1989 1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007				0
1982 0 1993 1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007				0
1984 0 1995 1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007		0		0
1985 0 1996 1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007		0		0
1986 0 1997 1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007				0
1987 0 1999 1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007		0		0
1990 0 2000 1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007				0
1991 0 2001 1993 0 2004 1995 0 2006 1996 0 2007		0		0
1993 0 2004 1995 0 2006 1996 0 2007				0
1995 0 2006 1996 0 2007				0
1996 0 2007				0
				0
1997 0 2008				0
	1997	0	2008	0
				NA
				NA
		<u> </u>		NA
2021 NA 1984 N	2021	NA	1984	NA

SCOTT_SL4 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTT_SL4 Number of days with DHW values of 8 or more

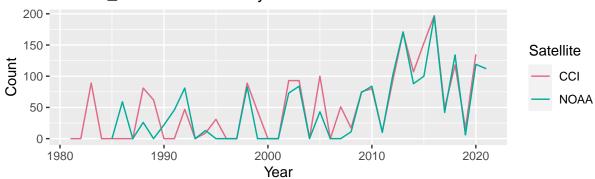


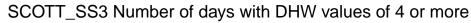
Table 11: Number of Days with Degree Heating Week values of 4 or more

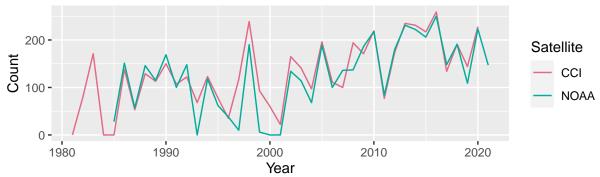
2016 261 2016 25 1998 241 2014 22 2013 232 2020 25 2020 230 2013 21 2014 226 2010 21 2010 218 2015 19 2005 206 2018 19 2015 201 2009 15 2018 193 1998 19 2018 193 1998 19 2009 172 2005 18 2009 172 2005 18 1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008				
1998 241 2014 22 2013 232 2020 22 2020 230 2013 21 2014 226 2010 21 2010 218 2015 19 2005 206 2018 19 2015 201 2009 15 2015 201 2009 19 2018 193 1998 19 2009 172 2005 18 2009 172 2005 18 1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 137 2008 14 1988 134 2007	Year	CCI_DHW4	Year	NOAA_DHW4
2013 232 2020 22 2020 230 2013 21 2014 226 2010 21 2010 218 2015 19 2005 206 2018 19 2015 201 2009 19 2018 193 1998 19 2009 172 2005 18 1983 168 2012 16 2009 172 2005 18 1983 168 2012 16 2002 158 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1999 128 2003	2016	261		250
2020 230 2013 20 2014 226 2010 21 2010 218 2015 19 2005 206 2018 19 2015 201 2009 19 2018 193 1998 19 2009 172 2005 18 2009 172 2005 18 1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 10 1994<	1998	241	2014	225
2014 226 2010 21 2010 218 2015 19 2005 206 2018 19 2015 201 2009 19 2018 193 1998 19 2009 172 2005 18 1983 168 2012 16 1984 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 16 1992 103 2006	2013	232	2020	225
2010 218 2015 19 2005 206 2018 19 2015 201 2009 19 2018 193 1998 19 2009 172 2005 18 1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 2006 96 1991<	2020	230	2013	215
2005 206 2018 19 2018 193 1998 19 2009 172 2005 18 1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 12 1988 134 2007 13 1988 134 2007 13 1989 128 2003 13 2019 123 1989 12 1999 128 2003 13 1999 128 2003 13 2019 10 1994 11 1989 106 2019 10 2006 96 1991 </td <td>2014</td> <td>226</td> <td>2010</td> <td>214</td>	2014	226	2010	214
2015 201 2009 198 2018 193 1998 19 2009 172 2005 18 1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2004 89 2011 8 2004 82 1995 <td>2010</td> <td>218</td> <td>2015</td> <td>197</td>	2010	218	2015	197
2018 193 1998 19 2009 172 2005 18 1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2004 89 2011 8 2004 89 2011 <td>2005</td> <td>206</td> <td>2018</td> <td>192</td>	2005	206	2018	192
2009 172 2005 18 1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 12 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 13 1989 106 2019 10 1992 103 2006 9 2004 89 2011 8 2004 89 2011 8 2011 79 1987	2015	201	2009	191
1983 168 2012 16 2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2004 89 2011 8 2004 89 2011 8 2004 89 2011 8 2011 79 1987 6 1982 62 1996	2018	193	1998	190
2012 166 1986 15 2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2017 139 2002 14 2017 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2004 89 2011 8 2011 79 1987 6 1982 62 1996	2009	172	2005	184
2002 158 1988 15 2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 15 1986 132 1992 13 1999 128 2003 15 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2004 89 2011 8 2011 79 1987 6 1995 67 2004 5 1997 10 1999 1997 10 1999	1983	168	2012	169
2008 157 2021 14 2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1987 50 1997	2012	166	1986	156
2003 145 2017 14 1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 13 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1987 50 1997 1997 10 1999	2002	158	1988	153
1990 140 1990 14 2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2004 89 2011 8 2001 79 1987 6 1982 62 1996 3 1987 50 1997 1997 10 1999 1991 7 1993 1984 0 2000 1984 0 2001 1985 0 1981 <td< td=""><td>2008</td><td>157</td><td>2021</td><td>149</td></td<>	2008	157	2021	149
2017 139 2002 14 2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 15 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2004 89 2011 8 2011 79 1987 6 1982 62 1996 3 1983 56 1985 3 1997 10 1999 1991 7 1993 1984 0 2000 1984 0 2001 1985 0 1981 N	2003	145	2017	146
2007 137 2008 14 1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1995 67 2004 5 1995 67 2004 5 1993 56 1985 5 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001<	1990	140	1990	143
1988 134 2007 13 1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1987 50 1997 10 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N	2017			143
1986 132 1992 13 1999 128 2003 13 2019 123 1989 12 1994 110 1994 13 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1984 0 2000 1985 0 1981 N	2007			140
1999 128 2003 13 2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				137
2019 123 1989 12 1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1984 0 2000 1985 0 1981 N				135
1994 110 1994 11 1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1984 0 2000 1985 0 1981 N				130
1989 106 2019 10 1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1987 50 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				127
1992 103 2006 9 2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				112
2006 96 1991 8 2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				105
2004 89 2011 8 2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1999 1991 7 1993 1981 0 2000 1984 0 2001 1981 N				95
2000 82 1995 6 2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 1991 7 1993 1981 0 2000 1984 0 2001 1981 N				85
2011 79 1987 6 1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				81
1995 67 2004 5 1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				65
1982 62 1996 3 1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				64
1993 56 1985 3 1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				51
1987 50 1997 1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				38
1997 10 1999 1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				30
1991 7 1993 1981 0 2000 1984 0 2001 1985 0 1981 N				8
1981 0 2000 1984 0 2001 1985 0 1981 N				8
1984 0 2001 1985 0 1981 N				0
1985 0 1981 N				0
				0
1006 0 1089 N				NA
	1996	0	1982	NA
				NA
2021 NA 1984 N	2021	NA	1984	NA

Table 12: Number of Days with Degree Heating Week values of 8 or more

Year	CCI DHW8	Year	NOAA DHW8
2016	197	2016	196
2013	170	2013	171
2015	153	2018	134
2020	135	2020	119
2018	118	2021	112
2014	107	2012	101
2005	100	2015	100
2002	93	2014	88
2003	93	2003	84
2012	92	2010	84
1983	89	1998	83
1998	89	1992	81
1988	81	2009	74
2010	80	2002	73
2009	75	1986	59
1989	62	1991	46
2007	51	2005	43
2017	49	2017	42
1992	47	1988	26
1999	44	1990	22
1995	31	1994	13
2008	17	2008	11
2019	16	2011	10
2011	11	2019	6
1994	9	1985	0
2004	1	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1990	0	2000	0
1991	0	2001	0
1993	0	2004	0
1996	0	2006	0
1997	0	2007	0
2000	0	1981	NA
2001	0	1982	NA
2006	0	1983	NA
2021	NA	1984	NA

SCOTT_SS3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTT_SS3 Number of days with DHW values of 8 or more

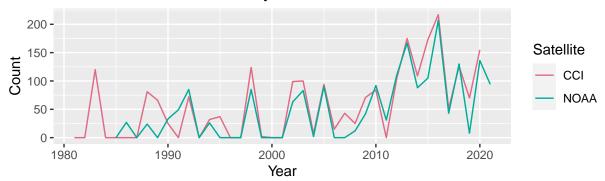


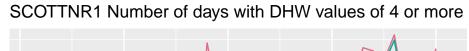
Table 13: Number of Days with Degree Heating Week values of 4 or more

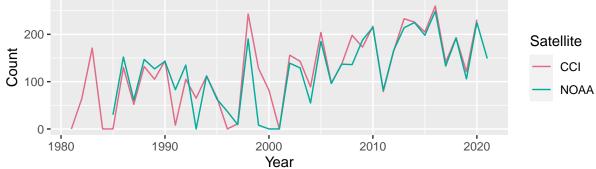
Year	CCI_DHW4	Year	NOAA_DHW4
2016	259	2016	250
1998	239	2013	231
2013	235	2020	223
2014	231	2014	222
2020	228	2010	218
2010	219	2015	206
2015	217	2018	191
2005	196	1998	190
2008	194	2005	189
2018	191	2009	186
2012	174	2012	180
1983	171	1990	169
2009	171	1986	151
2002	165	1992	148
1990	150	2017	148
2019	144	2021	147
2003	141	1988	146
1986	138	2008	137
2017	134	2007	136
1988	129	2002	134
1994	123	1994	118
1992	122	1989	115
1997	117	2003	114
1989	113	2019	109
2006	111	1991	100
1991	107	2006	100
2007	100	2011	84
2004	97	2004	68
1999	93	1995	62
1982	79	1987	57
1995	78	1996	38
2011	77	1985	28
1993	68	1997	10
2000	60	1999	6
1987	53	1993	0
1996	35	2000	0
2001	22	2001	0
1981	0	1981	NA
1984	0	1982	NA
1985	0	1983	NA
2021	NA	1984	NA

Table 14: Number of Days with Degree Heating Week values of 8 or more

Year	CCI_DHW8	Year	NOAA_DHW8
2016	217	2016	207
2013	175	2013	167
2015	173	2020	136
2020	155	2018	130
2018	126	2012	110
1998	124	2015	105
1983	120	2021	94
2014	109	2010	92
2012	104	2005	90
2003	100	2014	88
2002	99	1992	85
2005	94	1998	85
2010	84	2003	83
1988	81	2002	63
1992	72	1991	49
2009	71	2017	43
2019	70	2009	42
1989	66	1990	33
2017	51	2011	31
2007	43	1986	27
1995	37	1994	26
1994	32	1988	24
1990	25	2008	12
2008	25	2019	8
2006	15	2004	2
2004	7	1985	0
1999	2	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1991	0	2000	0
1993	0	2001	0
1996	0	2006	0
1997	0	2007	0
2000	0	1981	NA
2001	0	1982	NA
2011	0	1983	NA
2021	NA	1984	NA
	-		

SCOTTNR1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTNR1 Number of days with DHW values of 8 or more

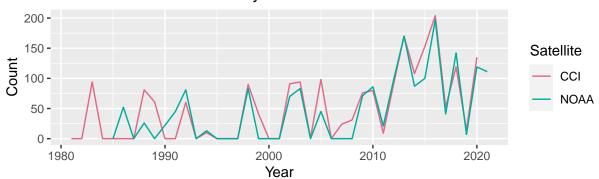


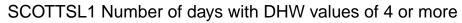
Table 15: Number of Days with Degree Heating Week values of 4 or more

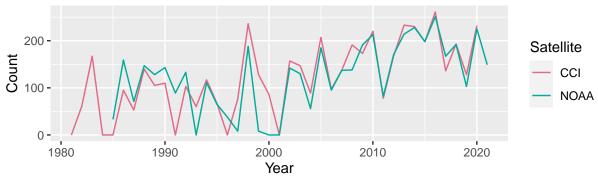
Year	CCI_DHW4	Year	NOAA_DHW4
2016	260	2016	249
1998	243	2014	225
2013	233	2020	225
2020	231	2010	215
2014	226	2013	214
2010	217	2015	198
2015	205	2018	192
2005	204	1998	190
2008	198	2009	188
2018	193	2005	185
2009	173	2012	166
1983	171	1986	152
2012	165	2021	149
2002	156	1988	147
1990	144	1990	143
2003	143	2002	139
2017	141	2007	137
2007	137	2008	136
1988	132	1992	135
1986	130	2017	133
1999	128	2003	129
2019	121	1989	127
1994	112	1994	112
1989	105	2019	106
1992	105	2006	96
2006	97	1991	83
2004	89	2011	82
2000	82	1995	63
2011	79	1987	61
1995	66	2004	55
1993	65	1996	37
1982	64	1985	30
1987	52	1997	9
1997	11	1999	8
1991	8	1993	0
1981	0	2000	0
1984	0	2001	0
1985	0	1981	NA
1996	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA
	•		•

Table 16: Number of Days with Degree Heating Week values of 8 or more

Year 2016 2013	CCI_DHW8 204	Year	NOAA_DHW8
	204		
2013	204	2016	197
	170	2013	170
2015	153	2018	142
2020	135	2020	119
2018	119	2021	111
2014	108	2015	100
2005	98	2012	98
1983	94	2014	87
2003	94	2010	86
2002	91	1998	83
2012	91	2003	83
1998	90	1992	81
1988	81	2009	71
2010	80	2002	70
2009	76	1986	52
1989	61	1991	45
1992	60	2005	45
2017	52	2017	41
1999	41	1988	26
2008	31	1990	22
2007	24	2011	21
2019	14	1994	13
1994	10	2019	7
2011	9	1985	0
2004	1	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1990	0	2000	0
1991	0	2001	0
1993	0	2004	0
1995	0	2006	0
1996	0	2007	0
1997	0	2008	0
2000	0	1981	NA
2001	0	1982	NA
2006	0	1983	NA
2021	NA	1984	NA

SCOTTSL1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSL1 Number of days with DHW values of 8 or more

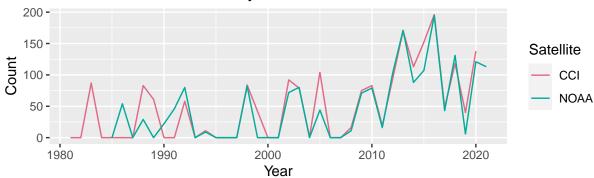


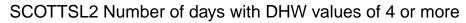
Table 17: Number of Days with Degree Heating Week values of 4 or more

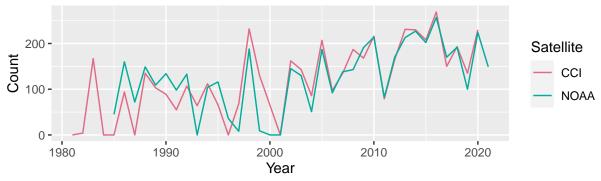
2016 261 2016 251 1998 236 2014 228 2013 233 2020 229 2020 232 2013 214 2014 230 2010 215 2010 220 2015 198 2005 207 2018 199 2015 198 2009 199 2015 198 2009 199 2018 193 1998 188 2008 191 2005 188 2008 191 2005 188 2009 173 2012 177 2012 168 2017 167 1983 167 1986 158 2002 157 2021 144 2002 157 2021 144 2003 147 1988 144 1988 140 1990 142 2017 136 <th></th> <th></th> <th></th> <th></th>				
1998 236 2014 228 2013 233 2020 225 2020 232 2013 214 2014 230 2010 213 2010 220 2015 198 2005 207 2018 199 2015 198 2009 199 2015 198 2009 199 2018 193 1998 188 2008 191 2005 188 2008 191 2005 188 2009 173 2012 177 2012 168 2017 167 1983 167 1986 159 2002 157 2021 144 2003 147 1988 147 1988 140 1990 144 2007 137 2002 144 2017 136 2008 138 1999 128 <td>Year</td> <td>CCI_DHW4</td> <td>Year</td> <td>NOAA_DHW4</td>	Year	CCI_DHW4	Year	NOAA_DHW4
2013 233 2020 225 2020 232 2013 214 2014 230 2010 213 2010 220 2015 198 2005 207 2018 199 2015 198 2009 191 2015 198 2009 191 2015 198 2009 191 2018 193 1998 188 2008 191 2005 185 2009 173 2012 171 2012 168 2017 167 1983 167 1986 159 2002 157 2021 149 2003 147 1988 147 1988 140 1990 143 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 <td>2016</td> <td>261</td> <td></td> <td>251</td>	2016	261		251
2020 232 2013 214 2014 230 2010 213 2010 220 2015 198 2005 207 2018 199 2015 198 2009 199 2018 193 1998 188 2008 191 2005 188 2009 173 2012 171 2012 168 2017 167 1983 167 1986 159 2002 157 2021 149 2003 147 1988 147 1988 140 1990 145 2007 137 2002 145 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 136 1994 117 2003 136 1989 105 <td>1998</td> <td>236</td> <td>2014</td> <td>228</td>	1998	236	2014	228
2014 230 2010 213 2010 220 2015 198 2005 207 2018 199 2015 198 2009 191 2015 198 2009 191 2018 193 1998 188 2008 191 2005 188 2009 173 2012 177 2012 168 2017 167 1983 167 1986 158 2002 157 2021 148 2003 147 1988 147 1988 140 1990 144 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1990 110 1989 128 1994 117 2003 136 1989 105 <td>2013</td> <td>233</td> <td>2020</td> <td>225</td>	2013	233	2020	225
2010 220 2015 198 2005 207 2018 199 2015 198 2009 199 2018 193 1998 188 2008 191 2005 185 2009 173 2012 177 2012 168 2017 167 1983 167 1986 156 2002 157 2021 148 2003 147 1988 147 1988 140 1990 144 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1990 110 1989 128 1989 105 1994 111 1992 103 <td>2020</td> <td>232</td> <td>2013</td> <td>214</td>	2020	232	2013	214
2005 207 2018 192 2015 198 2009 193 2018 193 1998 188 2008 191 2005 185 2009 173 2012 177 2012 168 2017 167 1983 167 1986 155 2002 157 2021 149 2003 147 1988 147 1988 140 1990 143 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 13 1994 117 2003 136 1999 128 1992 13 1990 110 1989 128 1991 1989 105 1994 11 1992 103 2019 10 2006	2014	230	2010	213
2015 198 2009 199 2018 193 1998 188 2008 191 2005 188 2009 173 2012 171 2012 168 2017 167 1983 167 1986 156 2002 157 2021 148 2003 147 1988 147 1988 140 1990 144 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1999 128 1992 133 1994 117 2003 136 1994 117 2003 136 1999 128 1992 133 1990 110 1989 128 1989 105 1994 111 1992 103 <td>2010</td> <td>220</td> <td>2015</td> <td>198</td>	2010	220	2015	198
2018 193 1998 188 2008 191 2005 185 2009 173 2012 177 2012 168 2017 167 1983 167 1986 155 2002 157 2021 149 2003 147 1988 147 1988 140 1990 145 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 136 1989 105 1994 111 1990 110 1989 128 1991 1989 105 1994 111 1992 103 2019 103 2006 97 2006 98 1986 95 1991 88 2004	2005	207	2018	192
2008 191 2005 188 2009 173 2012 171 2012 168 2017 167 1983 167 1986 156 2002 157 2021 148 2003 147 1988 147 1988 140 1990 14 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 136 1990 110 1989 128 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2096 97 2006 98 1989 105 1994 111 1992 103 2019 103 2004 89		198	2009	191
2009 173 2012 173 2012 168 2017 165 1983 167 1986 159 2002 157 2021 148 2003 147 1988 147 1988 140 1990 143 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 136 1990 110 1989 128 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 93 1986 95 1991 89 2004 89 2011 82 2004 89 2011 82 2011 78	2018	193	1998	188
2012 168 2017 167 1983 167 1986 159 2002 157 2021 149 2003 147 1988 147 1988 140 1990 143 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 130 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 95 1986 95 1991 89 2004 89 2011 82 2004 89 2011 82 2004 89 2011 82 2011 78 1995 65 1995 67 <t< td=""><td>2008</td><td>191</td><td>2005</td><td>185</td></t<>	2008	191	2005	185
1983 167 1986 156 2002 157 2021 149 2003 147 1988 147 1988 140 1990 143 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 136 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2019 103 2019 103 2006 97 2006 98 1986 95 1991 88 2004 89 2011 82 2004 89 2011 82 2000 86 1987 71 2011 78 1995 68 1995 67 <t< td=""><td>2009</td><td>173</td><td>2012</td><td>171</td></t<>	2009	173	2012	171
2002 157 2021 149 2003 147 1988 147 1988 140 1990 143 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 136 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 98 1986 95 1991 89 2004 89 2011 82 2004 89 2011 82 2004 89 2011 82 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 19	2012	168	2017	167
2003 147 1988 140 1988 140 1990 143 2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 136 1990 110 1989 128 1989 105 1994 113 1992 103 2019 103 2006 97 2006 98 1986 95 1991 89 2004 89 2011 82 2004 89 2011 82 2000 86 1987 73 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997	1983	167	1986	159
1988 140 1990 143 2007 137 2002 144 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 130 1990 110 1989 128 1989 105 1994 117 1992 103 2019 103 2006 97 2006 93 1986 95 1991 89 2004 89 2011 82 2000 86 1987 71 2011 78 1995 68 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1984 0 2000 0 1984 0 2000	2002	157	2021	149
2007 137 2002 142 2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 130 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 95 1986 95 1991 89 2004 89 2011 82 2000 86 1987 71 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1991 0 1981	2003	147	1988	147
2017 136 2008 138 1999 128 2007 137 2019 128 1992 133 1994 117 2003 136 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 98 1986 95 1991 88 2004 89 2011 82 2000 86 1987 71 2011 78 1995 68 1997 76 2004 56 1995 67 1996 38 1982 61 1985 35 1993 60 1997 8 1987 53 1999 8 1984 0 2000 0 1985 0 2001 0 1991 0 1981	1988	140	1990	143
1999 128 2007 133 2019 128 1992 133 1994 117 2003 136 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 95 1986 95 1991 89 2004 89 2011 82 2000 86 1987 71 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1991 0 1981 NA 1996 0 1982 NA	2007	137	2002	142
2019 128 1992 133 1994 117 2003 136 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 98 1986 95 1991 89 2004 89 2011 82 2000 86 1987 73 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA	2017			138
1994 117 2003 130 1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 95 1986 95 1991 89 2004 89 2011 82 2000 86 1987 71 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1991 0 1981 NA 1996 0 1982 NA				137
1990 110 1989 128 1989 105 1994 111 1992 103 2019 103 2006 97 2006 95 1986 95 1991 89 2004 89 2011 82 2000 86 1987 71 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1991 0 1981 NA 1996 0 1982 NA				133
1989 105 1994 113 1992 103 2019 103 2006 97 2006 98 1986 95 1991 89 2004 89 2011 82 2000 86 1987 73 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1991 0 1981 NA 1996 0 1982 NA				130
1992 103 2019 103 2006 97 2006 95 1986 95 1991 89 2004 89 2011 82 2000 86 1987 73 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				128
2006 97 2006 98 1986 95 1991 89 2004 89 2011 82 2000 86 1987 71 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				111
1986 95 1991 89 2004 89 2011 82 2000 86 1987 71 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				103
2004 89 2011 82 2000 86 1987 71 2011 78 1995 63 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA		97		95
2000 86 1987 71 2011 78 1995 65 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				89
2011 78 1995 68 1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA		89		82
1997 76 2004 56 1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				71
1995 67 1996 38 1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				65
1982 61 1985 33 1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				56
1993 60 1997 8 1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				38
1987 53 1999 8 1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				33
1981 0 1993 0 1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				8
1984 0 2000 0 1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				8
1985 0 2001 0 1991 0 1981 NA 1996 0 1982 NA				0
1991 0 1981 NA 1996 0 1982 NA				0
1996 0 1982 NA				0
				NA
2001 0 1983 NA				NA
	2001	0	1983	NA
2021 NA 1984 NA	2021	NA_	1984	NA

Table 18: Number of Days with Degree Heating Week values of 8 or more

Year	CCI_DHW8	Year	NOAA_DHW8
2016	196	2016	195
2013	170	2013	171
2015	152	2018	131
2020	138	2020	121
2018	118	2021	113
2014	113	2015	107
2005	104	2012	103
2012	94	2014	88
2002	92	1998	82
1983	87	1992	80
1998	84	2003	80
1988	83	2010	79
2010	83	2002	72
2003	79	2009	71
2009	75	1986	54
1989	61	1991	46
1992	58	2005	44
2017	48	2017	43
1999	42	1988	29
2019	40	1990	22
2011	19	2011	16
2008	16	2008	11
1994	11	1994	9
2004	1	2019	6
1981	0	1985	0
1982	0	1987	0
1984	0	1989	0
1985	0	1993	0
1986	0	1995	0
1987	0	1996	0
1990	0	1997	0
1991	0	1999	0
1993	0	2000	0
1995	0	2001	0
1996	0	2004	0
1997	0	2006	0
2000	0	2007	0
2001	0	1981	NA
2006	0	1982	NA
2007	0	1983	NA
2021	NA	1984	NA

SCOTTSL2 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSL2 Number of days with DHW values of 8 or more

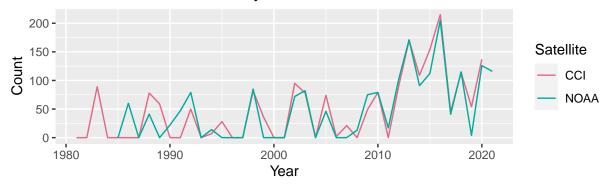


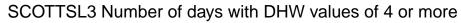
Table 19: Number of Days with Degree Heating Week values of 4 or more

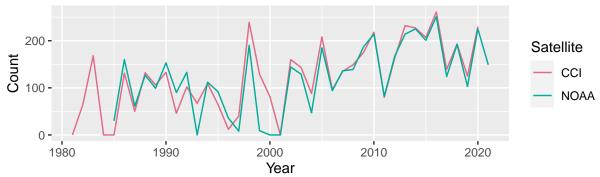
Year	CCI_DHW4	Year	NOAA_DHW4
2016	269	2016	257
1998	232	2014	227
2013	231	2020	224
2014	230	2010	214
2020	230	2013	213
2010	216	2015	202
2015	208	2018	192
2005	207	2009	191
2018	193	1998	188
2008	187	2005	187
2009	168	2012	170
1983	167	2017	170
2012	165	1986	160
2002	162	1988	149
2017	150	2021	149
2003	143	2002	145
1988	135	2008	143
2007	135	2007	138
2019	135	1990	134
1999	130	1992	133
1994	112	2003	130
1992	107	1995	116
1989	103	1989	109
2006	97	1994	104
1986	94	2019	100
1990	89	1991	98
2004	86	2006	92
2011	79	2011	82
1997	68	1987	72
1995	66	2004	51
2000	65	1985	45
1993	64	1996	36
1991	55	1999	9
1982	4	1997	8
1981	0	1993	0
1984	0	2000	0
1985	0	2001	0
1987	0	1981	NA
1996	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA
-			•

Table 20: Number of Days with Degree Heating Week values of 8 or more

Year	CCI_DHW8	Year	NOAA_DHW8
2016	215	2016	205
2013	170	2013	171
2015	154	2020	126
2020	137	2021	116
2018	114	2018	115
2014	109	2015	112
2002	95	2012	102
2012	90	2014	91
1983	89	1998	85
1998	82	2003	82
2010	79	1992	79
1988	78	2010	79
2003	78	2009	75
2005	74	2002	72
1989	59	1986	60
2019	54	1991	47
1992	50	2005	46
2009	49	1988	41
2017	45	2017	41
1999	36	1990	22
1995	28	2011	17
2007	21	1994	14
1994	7	2008	13
2006	2	2019	4
1981	0	1985	0
1982	0	1987	0
1984	0	1989	0
1985	0	1993	0
1986	0	1995	0
1987	0	1996	0
1990	0	1997	0
1991	0	1999	0
1993	0	2000	0
1996	0	2001	0
1997	0	2004	0
2000	0	2006	0
2001	0	2007	0
2004	0	1981	NA
2008	0	1982	NA
2011	0	1983	NA
2021	NA	1984	NA

SCOTTSL3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSL3 Number of days with DHW values of 8 or more

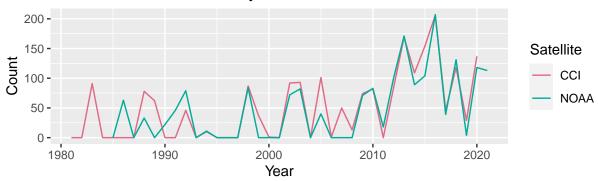


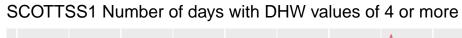
Table 21: Number of Days with Degree Heating Week values of 4 or more

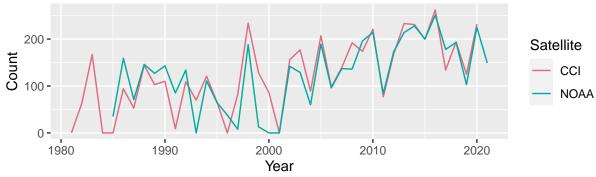
Year	CCI_DHW4	Year	NOAA_DHW4
2016	261	2016	251
1998	239	2014	225
2013	232	2020	225
2020	230	2010	214
2014	227	2013	214
2010	218	2015	201
2005	208	2018	192
2015	207	1998	190
2018	193	2009	187
2009	175	2005	185
1983	168	2012	167
2012	163	1986	160
2002	160	1990	153
2008	149	2021	149
2003	143	2002	144
2017	139	2008	139
2007	135	2007	136
1990	133	1992	133
1988	132	2003	129
1986	131	1988	127
1999	129	2017	124
2019	125	1994	112
1994	109	2019	103
1989	106	1989	99
1992	102	2006	94
2006	96	1995	92
2004	88	1991	90
2000	81	2011	82
2011	80	1987	61
1993	67	2004	47
1995	65	1996	36
1982	64	1985	30
1987	50	1999	9
1991	46	1997	8
1997	40	1993	0
1996	12	2000	0
1981	0	2001	0
1984	0	1981	NA
1985	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA
-			<u> </u>

Table 22: Number of Days with Degree Heating Week values of 8 or more

Year	CCI DHW8	Year	NOAA DHW8
2016	206	2016	207
2013	169	2013	171
2015	154	2018	131
2020	137	2020	118
2018	118	2021	113
2014	109	2015	104
2005	101	2012	101
2003	93	2014	89
2002	92	1998	84
1983	91	2010	83
1998	87	2003	82
2012	85	1992	79
2010	82	2002	72
1988	78	2009	71
2009	74	1986	63
1989	62	1991	46
2007	50	2005	40
1992	46	2017	39
2017	46	1988	33
1999	37	1990	22
2019	29	2011	18
2008	13	1994	11
1994	10	2019	4
2000	1	1985	0
2006	1	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1990	0	2000	0
1991	0	2001	0
1993	0	2004	0
1995	0	2006	0
1996	0	2007	0
1997	0	2008	0
2001	0	1981	NA
2004	0	1982	NA
2011	0	1983	NA
2021	NA	1984	NA

SCOTTSS1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSS1 Number of days with DHW values of 8 or more

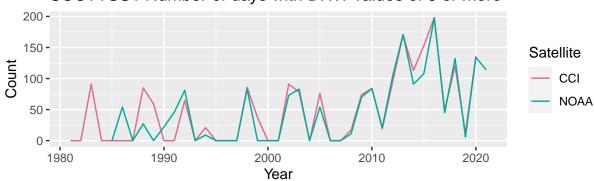


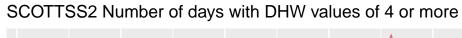
Table 23: Number of Days with Degree Heating Week values of 4 or more

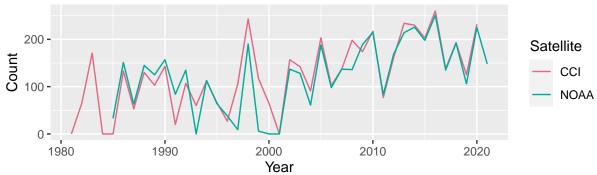
Year 2016 1998 2013 2020 2014 2010 2005	CCI_DHW4 262 234 233 232	Year 2016 2014	NOAA_DHW4 251 228
1998 2013 2020 2014 2010	234 233	2014	
2013 2020 2014 2010	233		228
2020 2014 2010		2020	1
2014 2010	929	2020	225
2010	232	2010	214
	231	2013	214
2005	221	2015	200
2000	207	2009	196
2015	200	2018	193
2018	194	2005	189
2008	192	1998	188
2003	177	2017	178
2009	174	2012	173
2012	168	1986	159
1983	167	2021	149
2002	156	1988	146
1988	144	1990	143
2007	139	2002	142
2017	134	2007	137
1999	128	2008	136
2019	125	1992	134
1994	121	2003	129
1990	110	1989	127
1992	109	1994	111
1989	103	2019	103
2006	98	2006	96
1986	94	1991	85
2004	89	2011	84
2000	86	1987	71
1997	82	1995	65
2011	77	2004	60
1993	70	1996	38
1995	66	1985	35
1982	63	1999	13
1987	53	1997	8
1991	9	1993	0
1981	0	2000	0
1984	0	2001	0
1985	0	1981	NA
1996	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 24: Number of Days with Degree Heating Week values of 8 or more

2016 198 2016 198 2013 170 2013 171 2015 153 2020 134 2020 136 2018 132 2018 120 2021 114 2014 113 2015 108 2012 95 2012 104 1983 91 2014 91 2002 91 2010 84 1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988	Year	CCI_DHW8	Year	NOAA_DHW8
2015 153 2020 134 2020 136 2018 132 2018 120 2021 114 2014 113 2015 108 2012 95 2012 104 1983 91 2014 91 2002 91 2010 84 1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1999 37 1988	2016	198	2016	198
2020 136 2018 132 2018 120 2021 114 2014 113 2015 108 2012 95 2012 104 1983 91 2014 91 2002 91 2010 84 1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1999 37 1988 27 1994 21 1990	2013	170	2013	171
2018 120 2021 114 2014 113 2015 108 2012 95 2012 104 1983 91 2014 91 2002 91 2010 84 1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 <td< td=""><td>2015</td><td>153</td><td>2020</td><td>134</td></td<>	2015	153	2020	134
2014 113 2015 108 2012 95 2012 104 1983 91 2010 84 1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 <td>2020</td> <td>136</td> <td>2018</td> <td>132</td>	2020	136	2018	132
2012 95 2012 104 1983 91 2014 91 2002 91 2010 84 1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1985 0 1989 0	2018	120	2021	114
1983 91 2014 91 2002 91 2010 84 1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1989 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1998 0	2014	113	2015	108
2002 91 2010 84 1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1989 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1993 0 1990 0 1995 0 <	2012	95	2012	104
1998 86 1998 83 1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1993 0 1990 0 1995 0 1991 0 1997 0 <td>1983</td> <td>91</td> <td>2014</td> <td>91</td>	1983	91	2014	91
1988 85 2003 83 2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1989 37 1988 27 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1996 0 1995 0 1993 0 1997 0 <td>2002</td> <td>91</td> <td>2010</td> <td>84</td>	2002	91	2010	84
2010 84 1992 81 2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1991 0 1995 0 1993 0 1997 0 1995 0 2000 0	1998	86	1998	83
2003 78 2002 73 2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1990 0 1995 0 1993 0 1997 0 1995 0 2000 0 1995 0 2000 0	1988	85	2003	83
2005 76 2009 70 2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1993 0 1986 0 1993 0 1990 0 1995 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 <	2010	84	1992	81
2009 74 1986 54 1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1990 0 1995 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 <tr< td=""><td>2003</td><td>78</td><td>2002</td><td>73</td></tr<>	2003	78	2002	73
1992 65 2005 54 1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1990 0 1995 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1995 0 2000 0 1995 0 2000 0 1996 0 2001 0	2005	76	2009	70
1989 59 1991 46 2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1990 0 1995 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1995 0 2001 0 1995 0 2000 0 1995 0 2000 0 1995 0 2000 0	2009	74	1986	54
2017 49 2017 45 1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1990 0 1995 0 1991 0 1996 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2004 0 2001 0 2006 0 2004 0 1981 NA	1992	65	2005	54
1999 37 1988 27 1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1990 0 1995 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2004 0 2001 0 2006 0 2004 0 1981 NA 2006 0 1982 NA	1989	59	1991	46
1994 21 1990 22 2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1990 0 1995 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1995 0 2000 0 1995 0 2000 0 1995 0 2000 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2004 0	2017	49	2017	45
2011 19 2011 21 2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1990 0 1995 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1995 0 2001 0 1995 0 2000 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 2000 0 2004 0 2000 0 2004 0 2001 0 2007 0 <t< td=""><td>1999</td><td>37</td><td>1988</td><td>27</td></t<>	1999	37	1988	27
2008 17 2008 11 2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1987 0 1995 0 1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2004 0 2001 0 2006 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1994	21	1990	22
2019 12 1994 9 1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1987 0 1995 0 1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	2011	19	2011	21
1981 0 2019 6 1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1987 0 1995 0 1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2006 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	2008	17	2008	11
1982 0 1985 0 1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1987 0 1995 0 1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	2019	12	1994	9
1984 0 1987 0 1985 0 1989 0 1986 0 1993 0 1987 0 1995 0 1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1981	0	2019	6
1985 0 1989 0 1986 0 1993 0 1987 0 1995 0 1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 2000 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1982	0		0
1986 0 1993 0 1987 0 1995 0 1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 2000 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1984	0	1987	0
1987 0 1995 0 1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1985	0	1989	0
1990 0 1996 0 1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1986	0	1993	0
1991 0 1997 0 1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1987	0	1995	0
1993 0 1999 0 1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1990	0	1996	0
1995 0 2000 0 1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1991	0	1997	0
1996 0 2001 0 1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1993	0	1999	0
1997 0 2004 0 2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1995	0	2000	0
2000 0 2006 0 2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1996	0	2001	0
2001 0 2007 0 2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	1997	0	2004	0
2004 0 1981 NA 2006 0 1982 NA 2007 0 1983 NA	2000	0	2006	0
2006 0 1982 NA 2007 0 1983 NA		0	2007	0
2007 0 1983 NA	2004	0	1981	NA
	2006	0	1982	NA
	2007	0	1983	NA
2021 NA 1984 NA	2021	NA	1984	NA

SCOTTSS2 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSS2 Number of days with DHW values of 8 or more

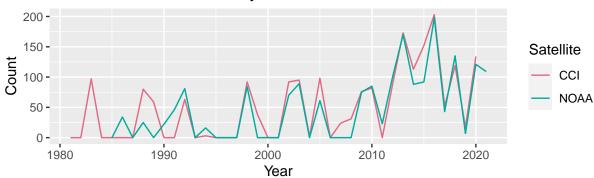


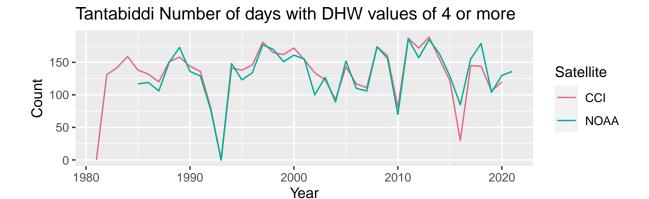
Table 25: Number of Days with Degree Heating Week values of 4 or more

Year	CCI_DHW4	Year	NOAA_DHW4
2016	260	2016	251
1998	243	2014	226
2013	234	2020	225
2020	232	2010	215
2014	230	2013	214
2010	217	2015	198
2005	203	2018	192
2015	203	1998	190
2008	198	2009	189
2018	193	2005	188
2009	174	2012	169
1983	171	1990	157
2012	162	1986	151
2002	157	2021	148
1990	143	1988	145
2003	142	2002	137
2017	138	2007	137
2007	137	2008	136
1986	133	1992	135
1988	130	2017	135
2019	125	2003	128
1999	117	1989	125
1994	112	1994	113
1992	107	2019	106
1997	105	2006	98
1989	103	1991	84
2006	102	2011	83
2004	91	1995	64
2011	77	1987	63
1995	66	2004	61
1982	65	1996	38
2000	65	1985	33
1993	60	1997	9
1987	53	1999	6
1996	27	1993	0
1991	20	2000	0
1981	0	2001	0
1984	0	1981	NA
1985	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 26: Number of Days with Degree Heating Week values of 8 or more

2016 203 2016 198 2013 173 2013 170 2015 152 2018 135 2020 134 2020 121 2018 119 2021 109 2014 113 2012 101 2005 98 2015 92 1983 97 2003 89 2003 95 2014 88 1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2000 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011	Year	CCI_DHW8	Year	NOAA_DHW8
2015 152 2018 135 2020 134 2020 121 2018 119 2021 109 2014 113 2012 101 2005 98 2015 92 1983 97 2003 89 2003 95 2014 88 1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011	2016	203	2016	198
2020 134 2020 121 2018 119 2021 109 2014 113 2012 101 2005 98 2015 92 1983 97 2003 89 2003 95 2014 88 1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 <	2013	173	2013	170
2018 119 2021 109 2014 113 2012 101 2005 98 2015 92 1983 97 2003 89 2003 95 2014 88 1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 </td <td>2015</td> <td>152</td> <td>2018</td> <td>135</td>	2015	152	2018	135
2014 113 2012 101 2005 98 2015 92 1983 97 2003 89 2003 95 2014 88 1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 <td>2020</td> <td>134</td> <td>2020</td> <td>121</td>	2020	134	2020	121
2005 98 2015 92 1983 97 2003 89 2003 95 2014 88 1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1985 0 1993 0	2018	119	2021	109
1983 97 2003 89 2003 95 2014 88 1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1985 0 1995 0	2014	113	2012	101
2003 95 2014 88 1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1985 0 1993 0 1986 0 1995 0 1997 0 1997 0 </td <td>2005</td> <td>98</td> <td>2015</td> <td>92</td>	2005	98	2015	92
1998 92 2010 85 2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1985 0 1995 0 1986 0 1996 0 1993 0 200 0	1983	97	2003	89
2002 92 1998 84 2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1996 0 1997 0 1991 0 2000 0	2003	95	2014	88
2012 89 1992 81 2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1985 0 1993 0 1986 0 1995 0 1990 0 1997 0 1993 0 2000 0 1995 0 2004 0	1998	92	2010	85
2010 82 2009 75 1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1993 0 2001 0 1995 0 2004 0	2002	92	1998	84
1988 80 2002 70 2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1993 0 2000 0 1993 0 2001 0 1993 0 2001 0 <t< td=""><td>2012</td><td>89</td><td>1992</td><td>81</td></t<>	2012	89	1992	81
2009 76 2005 61 1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1993 0 2000 0 1993 0 2001 0 1995 0 2004 0 1995 0 2004 0	2010	82	2009	75
1992 63 1991 46 1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1995 0 2004 0 1995 0 2004 0	1988	80	2002	70
1989 59 2017 43 2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1993 0 2000 0 1995 0 2001 0 1995 0 2004 0 1995 0 2001 0 1997 0 2004 0 1996 0 2004 0	2009	76	2005	61
2017 52 1986 34 1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1995 0 2004 0 1997 0 2004 0 1996 0 2006 0 1997 0 2007 0	1992	63	1991	46
1999 38 1988 25 2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1991 0 2000 0 1993 0 2001 0 1993 0 2001 0 1995 0 2004 0 1995 0 2004 0 1997 0 2004 0 1996 0 2004 0 1997 0 2006 0	1989	59	2017	43
2008 31 2011 23 2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1997 0 0 1999 0 1991 0 2000 0 0 1993 0 2001 0 0 1995 0 2004 0 0 1995 0 2004 0 0 1995 0 2004 0 0 1995 0 2004 0 0 1997 0 2006 0 0 1996 0 2006 </td <td>2017</td> <td>52</td> <td>1986</td> <td>34</td>	2017	52	1986	34
2007 24 1990 22 2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1995 0 2004 0 1995 0 2004 0 1995 0 2004 0 1997 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA <t< td=""><td>1999</td><td>38</td><td>1988</td><td>25</td></t<>	1999	38	1988	25
2019 17 1994 16 1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1995 0 2004 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	2008	31	2011	23
1994 3 2019 7 2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1990 0 1997 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	2007	24	1990	22
2004 2 1985 0 1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1990 0 1999 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2004 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	2019	17	1994	16
1981 0 1987 0 1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1990 0 1999 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1994	3	2019	7
1982 0 1989 0 1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1990 0 1999 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	2004	2	1985	0
1984 0 1993 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1990 0 1999 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1981	0	1987	0
1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1990 0 1999 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1982	0	1989	0
1986 0 1996 0 1987 0 1997 0 1990 0 1999 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1984	0	1993	0
1987 0 1997 0 1990 0 1999 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1985	0	1995	0
1990 0 1999 0 1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1986	0	1996	0
1991 0 2000 0 1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1987	0	1997	0
1993 0 2001 0 1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1990	0	1999	0
1995 0 2004 0 1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1991	0	2000	0
1996 0 2006 0 1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1993	0	2001	0
1997 0 2007 0 2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1995	0	2004	0
2000 0 2008 0 2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1996	0	2006	0
2001 0 1981 NA 2006 0 1982 NA 2011 0 1983 NA	1997	0	2007	0
2006 0 1982 NA 2011 0 1983 NA	2000	0	2008	0
2011 0 1983 NA	2001	0	1981	NA
	2006	0	1982	NA
2021 NA 1984 NA	2011	0	1983	NA
	2021	NA	1984	NA

Tantabiddi Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



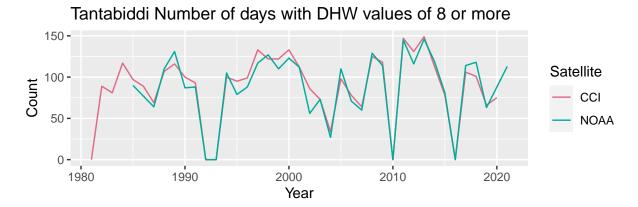


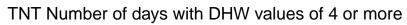
Table 27: Number of Days with Degree Heating Week values of 4 or more

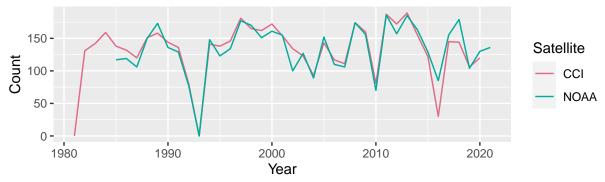
Year	CCI DHW4	Year	NOAA DHW4
2013	189	2011	186
2011	187	2013	185
1997	181	2018	179
2008	174	1997	177
2000	172	2008	174
2012	172	1989	173
1998	165	1998	170
1999	162	2014	163
2009	160	2000	161
1984	159	2012	157
1989	158	2009	156
2014	155	2001	155
2001	154	2017	155
1988	151	2005	152
1996	146	1999	151
2017	145	1988	150
1990	144	1994	148
2018	144	1990	136
2005	143	2021	136
1983	142	1996	134
1994	141	2020	130
1985	138	1991	129
1995	138	2015	129
1991	136	2003	127
2002	134	1995	123
1986	132	1986	119
1982	131	1985	117
2003	123	2006	110
2015	122	1987	106
1987	120	2007	106
2020	120	2019	104
2006	117	2002	100
2007	111	2004	89
2019	106	2016	85
2004	93	1992	77
2010	81	2010	70
1992	80	1993	0
2016	30	1981	NA
1981	0	1982	NA
1993	0	1983	NA
2021	NA	1984	NA

Table 28: Number of Days with Degree Heating Week values of 8 or more

2013 149 2013 2011 147 2011 1997 133 1989 2000 133 2008 2012 131 1998 2008 125 2000 1998 122 2014 1999 122 2018 2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	DHW8 146 145 131 129 127 123 119 118 117 116 114 113 112 110 110
2011 147 2011 1997 133 1989 2000 133 2008 2012 131 1998 2008 125 2000 1998 122 2014 1999 122 2018 2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	145 131 129 127 123 119 118 117 116 114 114 113 112 110
1997 133 1989 2000 133 2008 2012 131 1998 2008 125 2000 1998 122 2014 1999 122 2018 2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	131 129 127 123 119 118 117 116 114 114 113 112
2000 133 2008 2012 131 1998 2008 125 2000 1998 122 2014 1999 122 2018 2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	129 127 123 119 118 117 116 114 114 113 112
2012 131 1998 2008 125 2000 1998 122 2014 1999 122 2018 2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	127 123 119 118 117 116 114 114 113 112 110
2008 125 2000 1998 122 2014 1999 122 2018 2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	123 119 118 117 116 114 114 113 112 110
1998 122 2014 1999 122 2018 2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	119 118 117 116 114 114 113 112 110
1999 122 2018 2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	118 117 116 114 114 113 112 110
2009 118 1997 1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	117 116 114 114 113 112 110
1984 117 2012 1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	116 114 114 113 112 110
1989 116 2009 2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	114 114 113 112 110
2014 113 2017 2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	114 113 112 110
2001 112 2021 1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	113 112 110
1988 107 2001 2017 106 1988 2018 101 1999 1990 100 2005	112 110
2017 106 1988 2018 101 1999 1990 100 2005	110
2018 101 1999 1990 100 2005	
1990 100 2005	110
	110
	110
1994 100 1994	105
1996 99 1985	90
2005 98 1991	88
1985 97 1996	88
1995 95 2020	88
1991 93 1990	87
1982 89 2015	81
1986 89 1995	79
2002 86 1986	77
1983 81 2003	73
2006 78 2006	71
2015 78 1987	64
2020 75 2019	63
2003 73 2007	60
1987 69 2002	56
2019 66 2004	27
2007 64 1992	0
2004 34 1993	0
1981 0 2010	0
1992 0 2016	0
1993 0 1981	NA
2010 0 1982	NA
2016 0 1983	NA
2021 NA 1984	NA

TNT Yearly Sum of Moderate and High DHW Values in CCI and NOAA data $\,$





TNT Number of days with DHW values of 8 or more

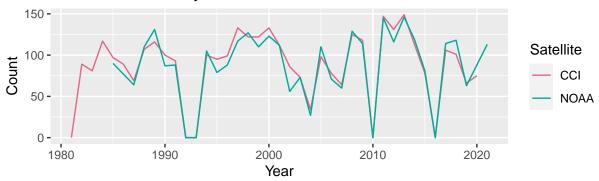


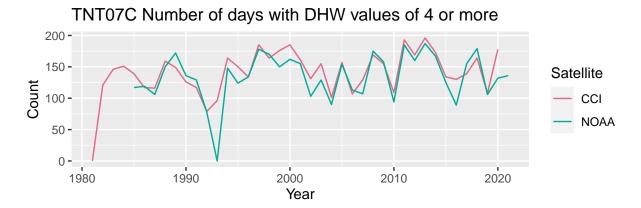
Table 29: Number of Days with Degree Heating Week values of 4 or more

Year	CCI_DHW4	Year	NOAA_DHW4
2013	189	2011	186
2011	187	2013	185
1997	181	2018	179
2008	174	1997	177
2000	172	2008	174
2012	172	1989	173
1998	165	1998	170
1999	162	2014	163
2009	160	2000	161
1984	159	2012	157
1989	158	2009	156
2014	155	2001	155
2001	154	2017	155
1988	151	2005	152
1996	146	1999	151
2017	145	1988	150
1990	144	1994	148
2018	144	1990	136
2005	143	2021	136
1983	142	1996	134
1994	141	2020	130
1985	138	1991	129
1995	138	2015	129
1991	136	2003	127
2002	134	1995	123
1986	132	1986	119
1982	131	1985	117
2003	123	2006	110
2015	122	1987	106
1987	120	_2007	106
2020	120	2019	104
2006	117	2002	100
2007	111	2004	89
2019	106	2016	85
2004	93	1992	77
2010	81	2010	70
1992	80	1993	0
2016	30	1981	NA
1981	0	1982	NA
1993	0	1983	NA
2021	NA	1984	NA

Table 30: Number of Days with Degree Heating Week values of 8 or more

Year 2013 2011	CCI_DHW8 149	Year	NOAA_DHW8
2011	149		
	110	2013	146
	147	2011	145
1997	133	1989	131
2000	133	2008	129
2012	131	1998	127
2008	125	2000	123
1998	122	2014	119
1999	122	2018	118
2009	118	1997	117
1984	117	2012	116
1989	116	2009	114
2014	113	2017	114
2001	112	2021	113
1988	107	2001	112
2017	106	1988	110
2018	101	1999	110
1990	100	2005	110
1994	100	1994	105
1996	99	1985	90
2005	98	1991	88
1985	97	1996	88
1995	95	2020	88
1991	93	1990	87
1982	89	2015	81
1986	89	1995	79
2002	86	1986	77
1983	81	2003	73
2006	78	2006	71
2015	78	1987	64
2020	75	2019	63
2003	73	2007	60
1987	69	2002	56
2019	66	2004	27
2007	64	1992	0
2004	34	1993	0
1981	0	2010	0
1992	0	2016	0
1993	0	1981	NA
2010	0	1982	NA
2016	0	1983	NA
2021	NA	1984	NA

TNT07C Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



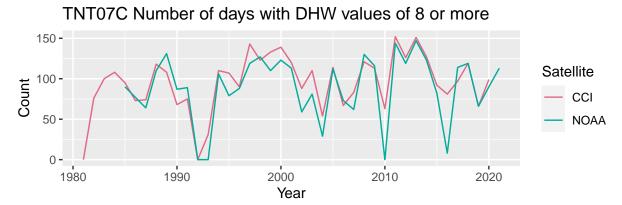


Table 31: Number of Days with Degree Heating Week values of 4 or more

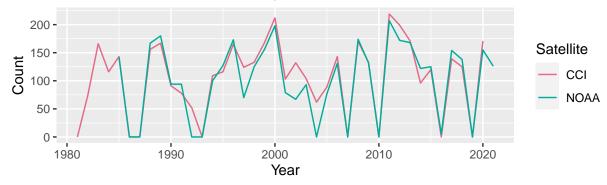
Year	CCI DHW4	Year	NOAA DHW4
2013	196	2013	187
2011	193	2011	185
1997	185	2018	179
2000	185	1997	178
2020	178	2008	175
1999	176	1989	172
2014	173	1998	170
2008	169	2014	167
2012	169	2000	162
1994	164	2012	160
1998	164	2009	158
2018	164	2001	155
2001	161	2017	155
1988	159	2005	154
2005	157	1988	150
2003	155	1999	150
2009	155	1994	148
1984	151	1990	136
1995	150	2021	136
1989	149	1996	134
1983	146	2020	132
1985	139	1991	129
2017	139	2003	129
1996	134	2015	125
2015	134	1995	124
2002	131	1986	119
2016	130	1985	117
2007	129	2006	113
1990	126	2007	107
1982	121	1987	106
1986	117	2019	106
1991	117	2002	103
1987	116	2010	94
2010	109	2004	90
2019	108	2016	89
2006	107	1992	78
2004	101	1993	0
1993	96	1981	NA
1992	79	1982	NA
1981	0	1983	NA
2021	NA	1984	NA

Table 32: Number of Days with Degree Heating Week values of 8 or more

Year	CCI_DHW8	Year	NOAA_DHW8
2011	152	2013	147
2013	151	2011	144
1997	143	1989	131
2000	139	2008	130
1999	133	1998	127
2014	127	2000	123
2012	126	2014	123
1998	123	1997	119
2008	121	2012	119
2001	120	2018	119
2018	119	2009	116
1988	118	2017	114
2005	114	2001	113
2009	113	2021	113
1994	110	2005	112
2003	110	1988	110
1984	108	1999	110
1989	108	1994	106
1995	107	1985	90
1983	100	2020	90
2020	99	1991	89
2017	97	1996	88
1985	95	1990	87
2015	92	2015	82
1996	90	2003	81
2002	88	1995	79
2007	83	1986	77
2016	81	2006	73
1982	76	2019	66
1991	75	1987	64
1987	74	2007	62
1986	73	2002	59
1990	68	_2004	29
2006	67	2016	8
2019	66	1992	0
2010	63	1993	0
2004	54	2010	0
1993	31	1981	NA
1981	0	1982	NA
1992	0	1983	NA
2021	NA	1984	NA

Wallabi Island Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

Wallabi Island Number of days with DHW values of 4 or more



Wallabi Island Number of days with DHW values of 8 or more

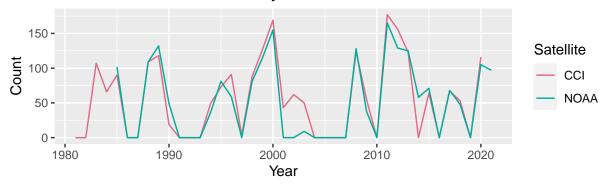


Table 33: Number of Days with Degree Heating Week values of 4 or more

Year	CCI_DHW4	Year	NOAA_DHW4
2011	219	2011	207
2000	212	2000	198
2012	199	1989	180
2013	171	2008	174
2020	171	1996	173
2008	170	2012	172
1999	168	2013	168
1989	167	1988	167
1983	166	1999	156
1996	165	2020	155
1988	156	2017	154
1985	143	1985	142
2006	143	2018	138
2017	139	2009	132
1998	133	2006	131
2009	133	1995	127
2002	132	2021	126
2018	125	1998	125
1997	124	2015	125
2015	120	2014	122
1984	116	1994	100
1995	116	1990	94
1994	109	1991	94
2003	104	2003	93
2001	103	2001	79
2014	96	2005	77
1990	91	1997	70
2005	89	2002	67
1991	78	2016	5
1982	74	1986	0
2004	62	1987	0
1992	52	1992	0
1981	0	1993	0
1986	0	2004	0
1987	0	2007	0
1993	0	2010	0
2007	0	2019	0
2010	0	1981	NA
2016	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 34: Number of Days with Degree Heating Week values of 8 or more

Year	CCI_DHW8	Year	NOAA_DHW8
2011	177	2011	165
2000	169	2000	155
2012	156	1989	132
1999	127	2012	129
2008	124	2008	128
2013	123	2013	125
1989	118	1999	115
2020	116	1988	109
1988	109	2020	105
1983	107	1985	102
1996	91	2021	97
1985	90	1995	81
1998	88	1998	81
1995	73	2015	71
2017	67	2017	68
1984	66	1996	59
2015	64	2014	58
2002	62	1990	49
2009	55	2018	48
2018	53	2009	38
2003	50	1994	36
1994	49	2003	9
2001	43	1986	0
1990	19	1987	0
1997	3	1991	0
1981	0	1992	0
1982	0	1993	0
1986	0	1997	0
1987	0	2001	0
1991	0	2002	0
1992	0	2004	0
1993	0	2005	0
2004	0	2006	0
2005	0	2007	0
2006	0	2010	0
2007	0	2016	0
2010	0	2019	0
2014	0	1981	NA
2016	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA
			L

$\rm HAB05B~Yearly~Sum$ of Moderate and High DHW Values in CCI and NOAA data

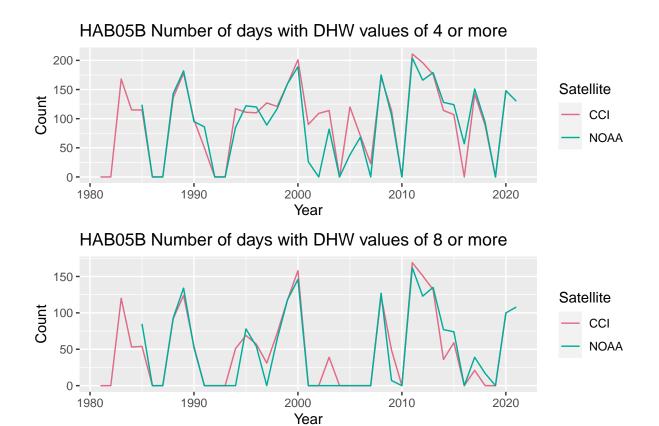


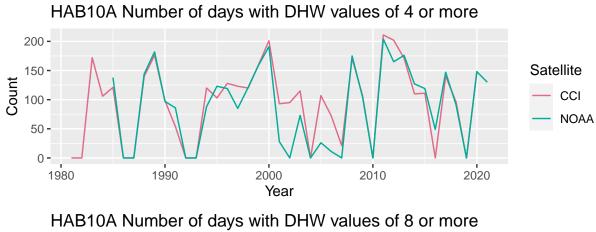
Table 35: Number of Days with Degree Heating Week values of 4 or more

Year	CCI_DHW4	Year	NOAA_DHW4
2011	211	2011	204
2000	201	2000	189
2012	196	1989	182
1989	178	2013	179
2013	176	2008	175
2008	171	2012	166
1983	168	1999	160
1999	160	2017	151
2020	147	2020	148
2017	142	1988	143
1988	136	2021	130
1997	127	2014	128
1998	121	1985	124
2005	120	2015	124
1994	117	1995	122
1984	115	1996	120
1985	115	1998	117
2003	114	2009	106
2009	114	1990	95
2014	114	2018	94
1995	111	1997	89
1996	110	1991	86
2002	109	1994	85
2015	107	2003	82
1990	98	2006	68
2001	90	2016	57
2018	89	2005	38
2006	71	2001	26
1991	50	1986	0
2007	23	1987	0
1981	0	1992	0
1982	0	1993	0
1986	0	2002	0
1987	0	2004	0
1992	0	2007	0
1993	0	2010	0
2004	0	2019	0
2010	0	1981	NA
2016	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 36: Number of Days with Degree Heating Week values of 8 or more

Year CCI_DHW8 Year NOAA_DHW8 2011 169 2011 162 2000 158 2000 146 2012 151 2013 135 2013 132 1989 134 1989 124 2008 127 2008 123 2012 123 1983 120 1999 118 1999 118 2021 108 2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1998 64 1990 54 1998 64 1990 54 1998 64 1990 52				
2000 158 2000 146 2012 151 2013 135 2013 132 1989 134 1989 124 2008 127 2008 123 2012 123 1983 120 1999 118 1999 118 2021 108 2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987		CCI_DHW8	Year	NOAA_DHW8
2012 151 2013 135 2013 132 1989 134 1989 124 2008 127 2008 123 2012 123 1983 120 1999 118 1999 118 2021 108 2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987	2011	169	2011	162
2013 132 1989 134 1989 124 2008 127 2008 123 2012 123 1983 120 1999 118 1999 118 2021 108 2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1998 64 1990 54 1998 64 1990 54 1998 64 1990 54 1998 64 1990 54 1998 64 1994 51 2017 39 2009 49 2018 17 2003 39 2009	2000	158	2000	146
1989 124 2008 127 2008 123 2012 123 1983 120 1999 118 1999 118 2021 108 2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1982 0 1993 0 1986 0 1994	2012		2013	135
2008 123 2012 123 1983 120 1999 118 1999 118 2021 108 2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1993 0 2001 0 <td>2013</td> <td></td> <td>1989</td> <td>134</td>	2013		1989	134
1983 120 1999 118 1999 118 2021 108 2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1982 0 1993 0 1987 0 1997 0 1991 0 2001 0	1989		2008	
1999 118 2021 108 2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1982 0 1993 0 1986 0 1994 0 1991 0 2001 0 1993 0 2002 0				
2020 99 2020 100 1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1997 0 1997 0 1993 0 2002 0 1993 0 2003 0 <td></td> <td></td> <td></td> <td>118</td>				118
1988 92 1988 93 1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1997 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0		118		
1998 72 1985 85 1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1991 0 2001 0 1993 0 2002 0 1993 0 2003 0 2001 0 2004 0		99		
1995 69 1995 78 2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1991 0 2001 0 1993 0 2002 0 1993 0 2002 0 1993 0 2003 0 2001 0 2004 0	1988	92	1988	93
2015 59 2014 77 1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1997 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 <t< td=""><td>1998</td><td>72</td><td>1985</td><td>85</td></t<>	1998	72	1985	85
1996 57 2015 74 1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1991 0 2001 0 1992 0 2002 0 1993 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0	1995	69	1995	78
1985 54 1998 64 1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1987 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2003 0 2004 0 2006 0 2005 0 2007 0				
1990 54 1996 54 1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1987 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2003 0 2004 0 2004 0 2005 0 2005 0 2006 0 2010 0				
1984 53 1990 52 1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1997 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0				
1994 51 2017 39 2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2003 0 2004 0 2004 0 2004 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0		-		
2009 49 2018 17 2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA				
2003 39 2009 7 2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1987 0 1997 0 1991 0 2001 0 1993 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA <t< td=""><td></td><td></td><td></td><td></td></t<>				
2014 36 1986 0 1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1997 0 0 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2				
1997 31 1987 0 2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1987 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2017 21 1991 0 1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1987 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				0
1981 0 1992 0 1982 0 1993 0 1986 0 1994 0 1987 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				0
1982 0 1993 0 1986 0 1994 0 1987 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		21		0
1986 0 1994 0 1987 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
1987 0 1997 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				0
1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				_
1992 0 2002 0 1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
1993 0 2003 0 2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2001 0 2004 0 2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2002 0 2005 0 2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2004 0 2006 0 2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2005 0 2007 0 2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2006 0 2010 0 2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2007 0 2016 0 2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				_
2010 0 2019 0 2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2016 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2018 0 1982 NA 2019 0 1983 NA				
2019 0 1983 NA				
2021 NA 1984 NA				
	2021	NA NA	-1984	NA_

$\rm HAB10A$ Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



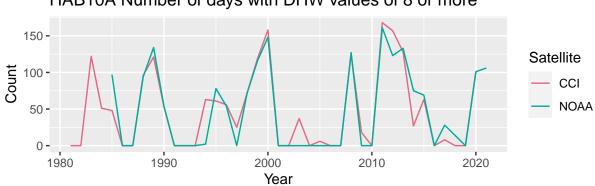


Table 37: Number of Days with Degree Heating Week values of 4 or more

Year	CCI DHW4	Year	NOAA DHW4
2011	211	2011	204
2000	201	2000	191
2012	196	1989	182
1989	178	2013	176
2013	176	2008	175
2008	171	2012	165
1983	168	1999	159
1999	160	2020	148
2020	147	2017	147
2017	142	1988	144
1988	136	1985	138
1997	127	2021	130
1998	121	2014	127
2005	120	1995	123
1994	117	1998	121
1984	115	1996	119
1985	115	2015	119
2003	114	2009	105
2009	114	1990	97
2014	114	2018	91
1995	111	1994	88
1996	110	1991	86
2002	109	1997	85
2015	107	2003	73
1990	98	2016	49
2001	90	2001	28
2018	89	2005	26
2006	71	2006	11
1991	50	1986	0
2007	23	1987	0
1981	0	1992	0
1982	0	1993	0
1986	0	2002	0
1987	0	2004	0
1992	0	2007	0
1993	0	2010	0
2004	0	2019	0
2010	0	1981	NA
2016	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 38: Number of Days with Degree Heating Week values of 8 or more

2000 158 2000	W8 161 148 134 133 127 123 116 106 101 97
2000 158 2000 2012 157 1989 2013 128 2013 2008 125 2008 1983 122 2012 1989 121 1999 1999 119 2021 2020 101 2020 1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 <td>148 134 133 127 123 116 106</td>	148 134 133 127 123 116 106
2012 157 1989 2013 128 2013 2008 125 2008 1983 122 2012 1989 121 1999 1999 119 2021 2020 101 2020 1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	134 133 127 123 116 106 101
2013 128 2013 2008 125 2008 1983 122 2012 1989 121 1999 1999 119 2021 2020 101 2020 1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	133 127 123 116 106 101
2008 125 2008 1983 122 2012 1989 121 1999 1999 119 2021 2020 101 2020 1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	127 123 116 106 101
1983 122 2012 1989 121 1999 1999 119 2021 2020 101 2020 1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	123 116 106 101
1989 121 1999 1999 119 2021 2020 101 2020 1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	116 106 101
1999 119 2021 2020 101 2020 1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	106 101
2020 101 2020 1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	101
1988 96 1985 1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	
1998 72 1988 1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	97
1994 63 1995 2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	0.
2015 63 2014 1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	94
1995 61 1998 1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	78
1996 56 2015 1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	75
1990 53 1990 1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	72
1984 51 1996 1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	69
1985 48 2017 2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	54
2003 37 2018 2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	54
2014 27 1994 1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	28
1997 25 1986 2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	14
2009 18 1987 2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	2
2017 8 1991 2005 6 1992 1981 0 1993 1982 0 1997	0
2005 6 1992 1981 0 1993 1982 0 1997	0
1981 0 1993 1982 0 1997	0
1982 0 1997	0
	0
1986 0 2001	0
	0
1987 0 2002	0
1991 0 2003	0
1992 0 2004	0
1993 0 2005	0
2001 0 2006	0
2002 0 2007	0
2004 0 2009	0
2006 0 2010	0
2007 0 2016	0
2010 0 2019	
	0
2018 0 1982	NA
	-
2021 NA 1984	NA