

**For 2020 Comet Hunting Hours by Don Machholz, 1975-2019**

YEAR	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Jan.	15.50	35.50	42.25	22.00	20.25	14.75	25.50	14.25	18.75	25.25	16.75	4.50	10.00	14.50	22.25	20.50	19.75	20.00	17.75	29.00	5.50	7.00	11.00	7.25	13.25	5.50	6.00	4.00
Feb.	13.50	22.00	37.75	10.25	10.00	5.50	8.00	14.75	9.00	8.25	17.00	10.00	15.00	19.00	6.25	12.25	23.50	17.00	15.00	12.25	35.50	11.25	8.50	4.00	13.00	4.25	3.50	5.25
Mar.	21.00	31.75	39.25	25.25	14.25	21.00	13.00	8.00	6.75	12.00	17.75	14.75	9.25	14.25	8.25	12.75	9.75	8.25	10.50	15.00	14.25	13.75	9.00	10.75	8.00	7.00	6.25	8.25
April	15.25	44.00	39.25	26.25	16.00	13.50	21.75	19.50	13.50	8.00	13.00	6.75	18.25	7.25	16.25	11.00	15.00	19.50	15.25	18.75	22.25	12.25	11.50	6.50	16.25	9.00	3.50	5.75
May	17.25	69.25	42.50	63.00	39.50	17.00	15.25	27.00	20.25	19.75	18.75	18.50	19.00	19.00	17.75	17.75	15.50	16.00	20.50	13.75	12.00	12.00	19.50	4.25	16.75	8.75	8.00	6.50
Jun	18.50	52.50	47.25	50.00	40.00	30.50	25.00	19.25	22.75	22.25	22.00	26.00	18.75	19.50	16.25	26.25	25.00	20.25	30.75	25.00	22.25	22.25	14.00	20.00	15.50	10.75	3.00	11.75
July	20.50	46.00	55.25	61.25	50.00	29.75	29.50	29.25	25.50	17.75	25.25	22.25	26.25	17.75	33.00	24.50	14.75	41.00	29.75	38.50	29.00	18.75	22.50	25.75	22.75	18.50	10.50	11.50
Aug.	31.00	51.00	45.75	61.75	26.00	33.50	36.50	22.25	15.25	23.00	20.25	26.25	26.50	22.00	26.00	23.00	10.50	35.50	30.75	35.50	31.25	27.00	19.50	30.25	11.50	9.00	3.50	5.25
Sept.	49.00	41.00	45.00	44.25	43.50	31.50	32.25	25.75	28.00	25.75	19.25	17.75	17.00	15.00	33.25	14.25	7.25	38.50	32.75	31.50	31.75	20.50	23.25	20.00	20.25	19.25	7.75	12.50
Oct.	50.00	57.00	35.25	62.00	11.00	24.00	27.75	18.75	15.50	18.00	16.75	23.50	14.00	18.50	17.50	15.75	20.25	28.75	19.75	19.25	25.50	27.75	20.50	24.50	19.00	10.00	5.75	7.50
Nov.	23.00	58.25	37.00	38.25	29.75	17.00	11.25	19.50	17.00	8.75	8.50	20.75	14.25	9.50	14.75	17.00	22.50	23.25	25.25	11.25	18.75	19.00	11.50	13.00	7.00	4.00	2.25	2.75
Dec.	32.50	44.75	37.50	31.75	25.75	23.00	12.75	22.25	7.75	24.25	16.00	10.50	15.50	13.50	20.25	10.50	20.00	14.00	25.50	20.25	6.75	6.50	22.00	24.50	18.50	10.75	1.00	2.00
TOTAL	307.00	553.00	504.00	496.00	326.00	261.00	258.50	240.50	200.00	213.00	211.25	201.50	203.75	189.75	231.75	205.50	203.75	282.00	273.50	270.00	254.75	198.00	192.75	190.75	181.75	116.75	61.00	83.00
Gnd Tot	307.00	860.00	1364.00	1860.00	2186.00	2447.00	2705.50	2946.00	3146.00	3359.00	3570.25	3771.75	3975.50	4165.25	4397.00	4602.50	4806.25	5088.25	5361.75	5631.75	5886.50	6084.50	6277.25	6468.00	6649.75	6766.50	6827.50	6910.50
YEAR	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MOST:	69.25	May-76		63.00	May-78		62.00	Oct-78																				
LEAST:	1.00	Dec-01		1.25	Apr-13		1.25	Apr-13		1.25	Mar-16																	

Comet discovery months are denoted above by **YELLOW** boxes

**Don Machholz Named Comet Discoveries**

#	Comet	Date	Tot Hrs	# Hrs.	Sess #	Sessions	Area #	Areas
1	1978L	12-Sep	1700.00	1700.00	691	691	3075	3075
2	1985e	27-May	3442.25	1742.25	1385	694	7084	4009
3	1986e	12-May	3615.75	173.50	1471	86	7530	446
4	1988j	6-Aug	4091.25	475.50	1696	225	8624	1094
5	1992d	31-Mar	4851.50	760.25	2062	366	10279	1655
6	1992k	2-Jul	4912.50	61.00	2102	40	10418	139
7	1994m	6-Jul	5487.25	574.75	2439	337	11609	1191
8	1994o	13-Aug	5533.75	46.50	2460	21	11685	76
9	1994r	8-Oct	5589.00	55.25	2494	34	11780	95
10	2004Q2	27-Aug	7047.25	1458.25	3543	1049	14606	2826
11	2010F1	23-Mar	7654.25	607.00	4115	572	15442	836
12	2018 V1	7-Nov	8400.00	745.75	4782	667	16145	703

2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL	# Yrs =	45	%/MO	# for 150	Tot	
4.75	5.50	7.50	4.25	9.75	6.25	10.00	3.25	5.50	5.25	4.00	3.50	6.25	1.50	3.50	3.50	4.25			557.00	Jan.	12.38	6.53%	10	10	
9.00	3.25	8.75	5.00	4.00	6.00	2.75	3.75	8.25	3.50	3.25	2.75	10.25	6.25	2.00	4.75	2.00			457.00	Feb.	10.16	5.36%	10	20	
3.00	5.50	9.00	2.75	5.25	2.00	3.25	6.50	2.50	2.00	2.50	3.00	4.75	1.25	2.50	3.50	3.25			452.50	Mar.	10.06	5.31%	10	30	
2.00	4.50	4.00	4.25	2.75	7.25	6.50	7.25	4.25	5.25	1.25	7.75	7.00	4.75	4.75	9.25	4.75			532.50	April	11.83	6.25%	10	40	
5.25	5.50	4.50	7.00	9.75	5.25	8.75	5.50	4.75	6.50	4.25	5.75	4.50	5.75	9.00	6.50	6.50			700.00	May	15.56	8.21%	15	55	
7.75	12.50	9.75	12.25	9.75	4.25	15.50	17.25	9.50	11.75	5.25	11.75	9.75	9.25	5.50	11.00	9.25			849.25	Jun	18.87	9.96%	15	70	
13.25	6.75	18.00	15.50	10.50	3.75	17.25	20.50	17.50	7.75	7.50	5.25	7.75	8.75	6.00	12.50	8.75			984.25	July	21.87	11.54%	15	85	
5.00	9.75	17.00	19.25	18.75	22.50	12.25	21.00	17.50	12.50	3.25	7.00	11.00	4.75	9.00	3.75	24.75			958.50	Aug.	21.30	11.24%	15	100	
11.75	16.50	11.75	15.25	12.00	21.25	14.50	18.75	19.25	12.75	7.50	5.50	13.50	9.75	7.50	11.25	15.75			972.25	Sept.	21.61	11.40%	15	115	
12.50	5.50	11.75	12.50	12.75	11.50	7.25	11.00	13.50	5.25	3.75	6.25	10.25	1.50	9.75	14.25	16.00			819.00	Oct.	18.20	9.61%	15	130	
4.75	4.00	4.25	4.00	11.00	12.50	10.25	9.75	8.50	4.00	4.75	3.00	9.75	2.25	2.50	9.50	14.25			624.00	Nov.	13.87	7.32%	10	140	
5.00	6.50	4.75	5.75	7.75	13.00	5.00	4.00	12.25	3.25	8.00	4.25	3.75	4.75	2.00	7.75	1.75			619.75	Dec.	13.77	7.27%	10	150	
84.00	85.75	111.00	107.75	114.00	115.50	113.25	128.50	123.25	79.75	55.25	65.75	98.50	60.50	64.00	97.50	111.25	0.00								
6994.50	7080.25	7191.25	7299.00	7413.00	7528.50	7641.75	7770.25	7893.50	7973.25	8028.50	8094.25	8192.75	8253.25	8317.25	8414.75	8526.00	8526.00		8526.00	= Total		189.5	1.0000	150	150
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020					= Hrs/Mo			

