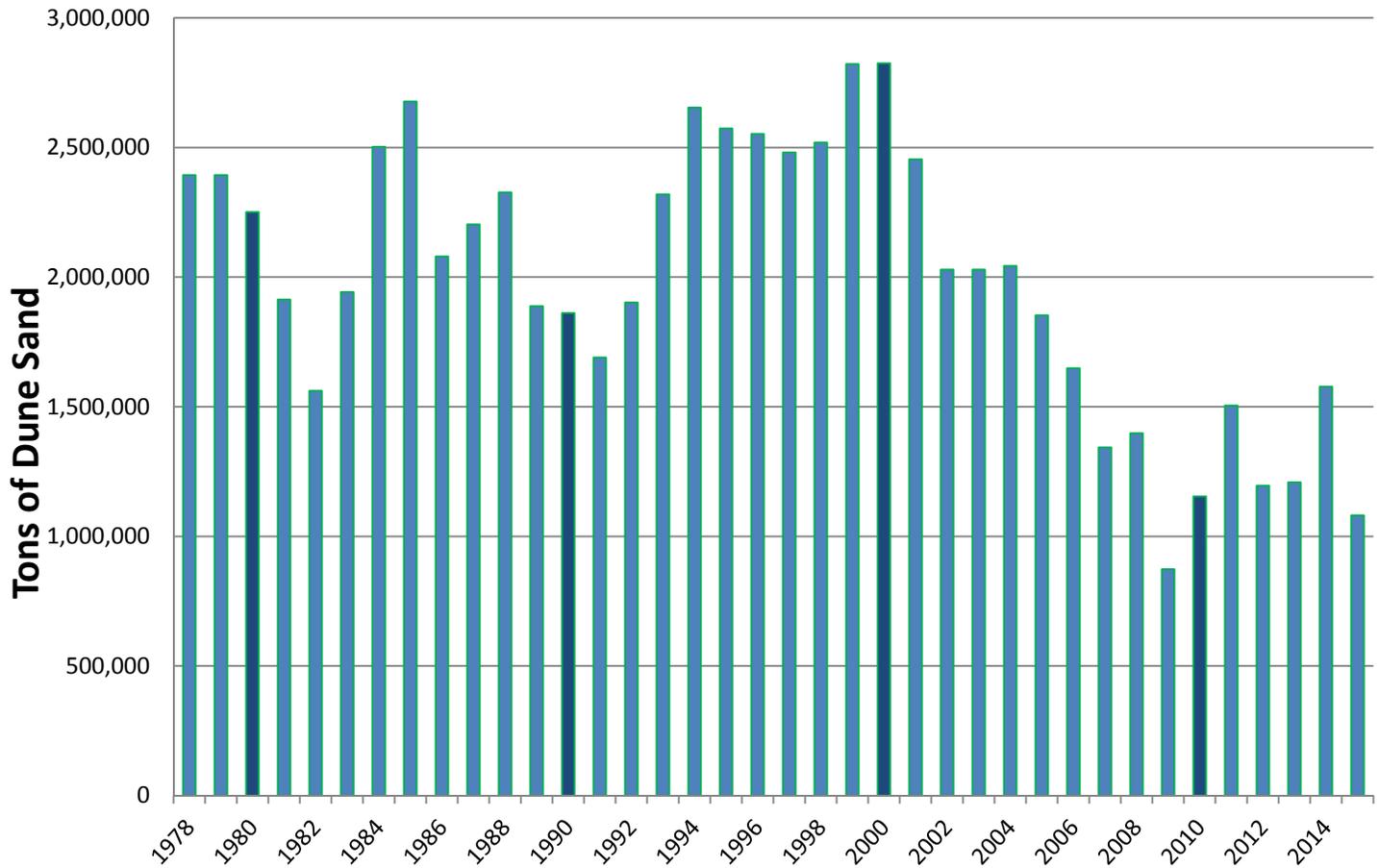


Michigan Annual Sand Dune Mining Totals (1978-2015)



Annual sand production from regulated sand dune areas is reported in tons per calendar year. Data is for all sand mining operations permitted via Part 637, Sand Dune Mining, of the Natural Resources and Environmental Protection Act 451, 1994, as amended. Industrial sand production from locations outside of designated sand dune areas is not regulated by, nor reported to the DEQ.

Sand Production by Calendar Year

Year	Tons of Sand Mined						
1978	2,393,567	1990	1,861,795	2001	2,454,322	2012	1,195,438
1979	2,393,567	1991	1,689,804	2002	2,029,051	2013	1,208,801
1980	2,250,865	1992	1,902,225	2003	2,028,923	2014	1,577,182
1981	1,913,690	1993	2,319,239	2004	2,043,337	2015	1,081,240
1982	1,561,431	1994	2,653,725	2005	1,852,712		
1983	1,942,400	1995	2,573,335	2006	1,648,780		
1984	2,502,661	1996	2,552,438	2007	1,342,805		
1985	2,677,543	1997	2,480,901	2008	1,398,158		
1986	2,079,696	1998	2,519,415	2009	873,597		
1987	2,203,171	1999	2,821,823	2010	1,154,144		
1988	2,326,843	2000	2,824,713	2011	1,504,928		