Progress Towards Meeting Regulatory Goals

An initiative of the Tampa Bay Nitrogen Management Consortium to Maintain and Restore the Bay's Resources







FDEP Criteria Met:

	TDEF CITIETTA MEL.			
	OTB	HB	MTB	LTB
1975	red	red	red	green
1976	red	red	red	green
1977	red	red	red	red
1978	red	red	red	green
1979	red	red	red	red
1980	red	red	red	red
1981	red	red	red	red
1982	red	red	red	red
1983	red	red	red	red
1984	green	green	red	green
1985	red	red	red	green
1986	red	red	green	green
1987	red	green	red	green
1988	green	green	green	green
1989	red	green	green	green
1990	red	green	green	green
1991	green	green	green	green
1992	green	green	green	green
1993	green	green	green	green
1994	red	red	red	red
1995	red	red	red	green
1996	green	green	green	green
1997	green	green	green	green
1998	red	red	red	red
1999	green	green	green	green
2000	green	green	graan	
2001		8	green	green
2001	green	green	green	green
2002				
2002 2003	green	green	green	green
2002 2003 2004	green green	green green	green green	green green
2002 2003 2004 2005	green green red	green green green	green green green	green green green
2002 - 2003 - 2004 - 2005 - 2006 -	green green red red	green green green green	green green green green	green green green green
2002 - 2003 - 2004 - 2005 - 2006 - 2007 -	green green red red green	green green green green green	green green green green green	green green green green red
2002 - 2003 - 2004 - 2005 - 2006 - 2007 - 2008 -	green green red red green green green green green	green green green green green green green green green	green green green green green green	green
2002 2003 2004 2005 2006 2007 2008 2009	green green red green green green green green green green	green green green green green green green green	green green green green green green green green green	green green green green red green green green green green
2002 2003 2004 2005 2006 2007 2008 2009 2010	green green red green green green green green green green	green	green	green green green green red green green green green green green green
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	green green red green green green green green green red green	green	green	green
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	green green red green green green green green green green red green	green	green	green
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	green green red green	green	green	green
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	green green red green	green	green	green
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	green green red green green green green green green green green red green green red green green	green	green	green
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	green green red green green green green green green green green red green green red green green	green	green	green
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	green green red green green green green green green green green red green green green red green green green	green	green	green
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	green green red green green green green green green green green red green green red green green	green	green	green

Figure 5. Attainment of bay segments for chlorophyll criteria from 1975 to 2019.

Maintaining Reasonable Assurance & TMDL compliance

In November 2017, the Florida Department of Environmental Protection (FDEP) accepted the 2017 Reasonable Assurance Update (2017 RA Update) as submitted by TBEP in partnership with the Tampa Bay Nitrogen Management Consortium. FDEP concluded that the RA Update demonstrated both attainment of seagrass targets and total nitrogen numeric criteria for 2012-2016. During 2019, all bay segments, excluding Old Tampa Bay, were in compliance with the FDEP regulatory criteria for chlorophyll-a concentrations (Figure 5). The second compliance report for the 2017-2021 period was submitted March 2019.

2019 Chl-a Monthly Variation Compared to 1974-2018

Chlorophyll-a concentrations were evaluated within the bay on a monthly basis during 'r maxyr' and compared to prior years' levels (Figure 6). Elevated concentrations in Old Tampa Bay and Lower Tampa Bay were primarily due to *Pyrodinium bahamense* and *Karenia brevis* blooms, respectively. Hillsborough Bay also showed elevated concentrations during two months in 2018 - the fall event coincided with blooms of the nonharmful alga, *Tripos hircus*.

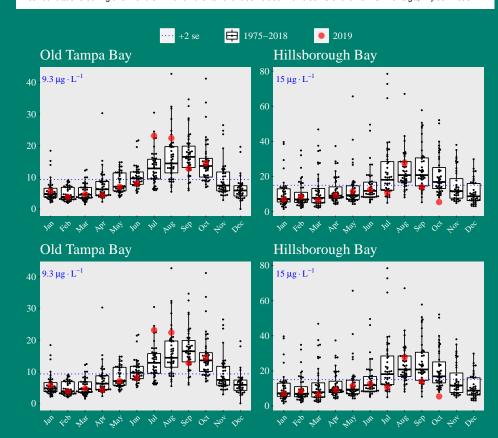
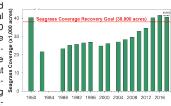


Figure 6. Chlorophyll-a monthly averages from 1975-2018 for the four bay segments. The monthly averages for 2019 are shown in red.Historic chlorophyll-a annual averages for the four bay segments.

2019 Decision Matrix Results

Tampa Bay's total seagrass coverage continues to remain above the recovery goal, though a slight decrease in acreage was observed from 2016 to 2018. The baywide coverage was estimated to be 40,618 acres as of 2018 (Figure :sgacre)). As in 2016, total seagrass coverage remains above both the baywide target (38,000 acres) and the total estimated historic seagrass coverage of the 1950s (40,420 acres). The next SWFWMD seagrass coverage estimates will be developed from aerial photographs acquired over the winter 2019-20 period, following the extensive red tide event that plagued the region throughout 2018 (note: the 2018 coverage estimate for Tampa Bay was developed prior to the red tide affecting the Bay). More information on the Bay's seagrass recovery utilizing transect monitoring data can also be found in TBEP Technical Publication #0816



Additional info: 2010 putriant management compliance assessment available from Charusad.