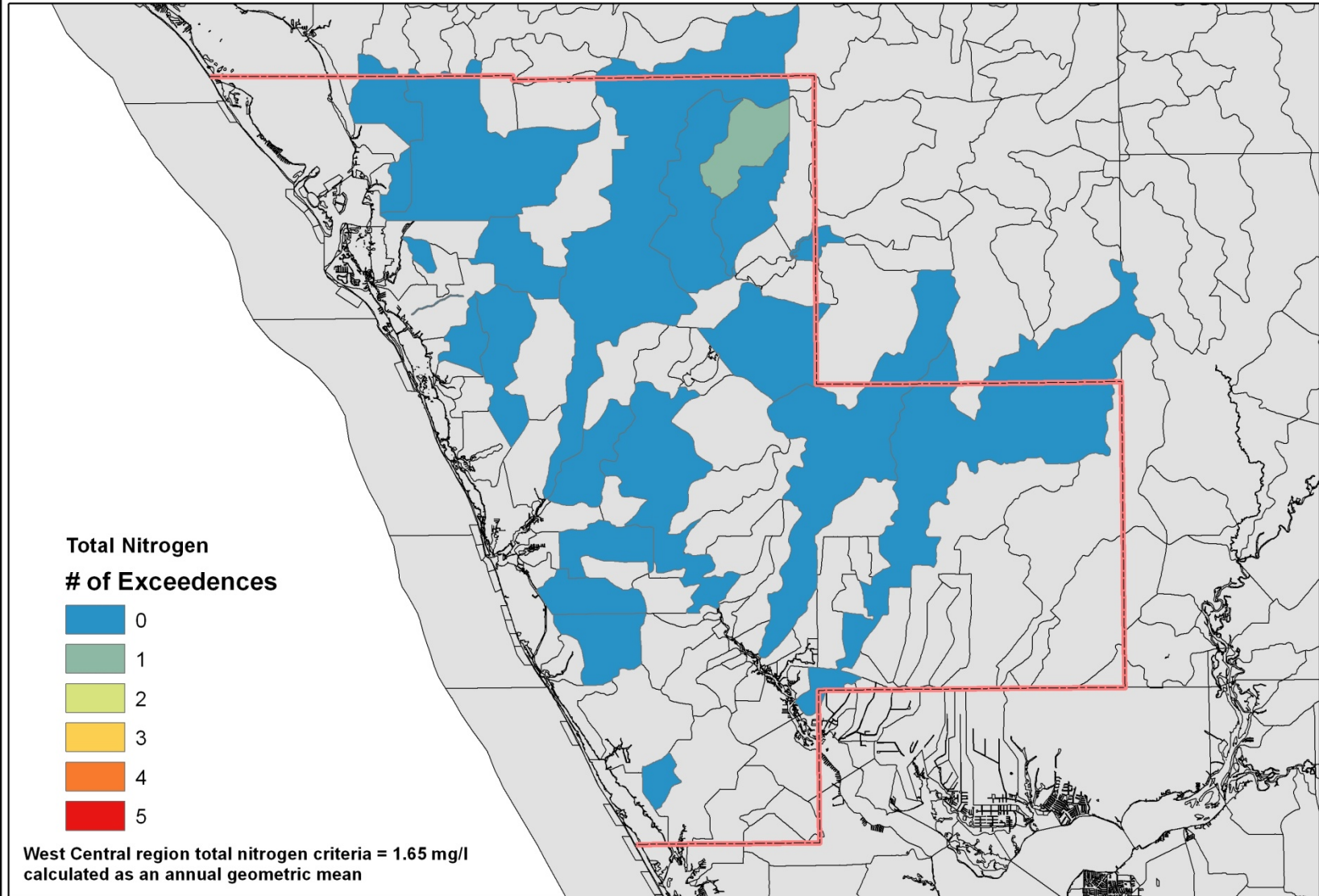


Numeric Nutrient Criteria Compliance for Sarasota County, Florida

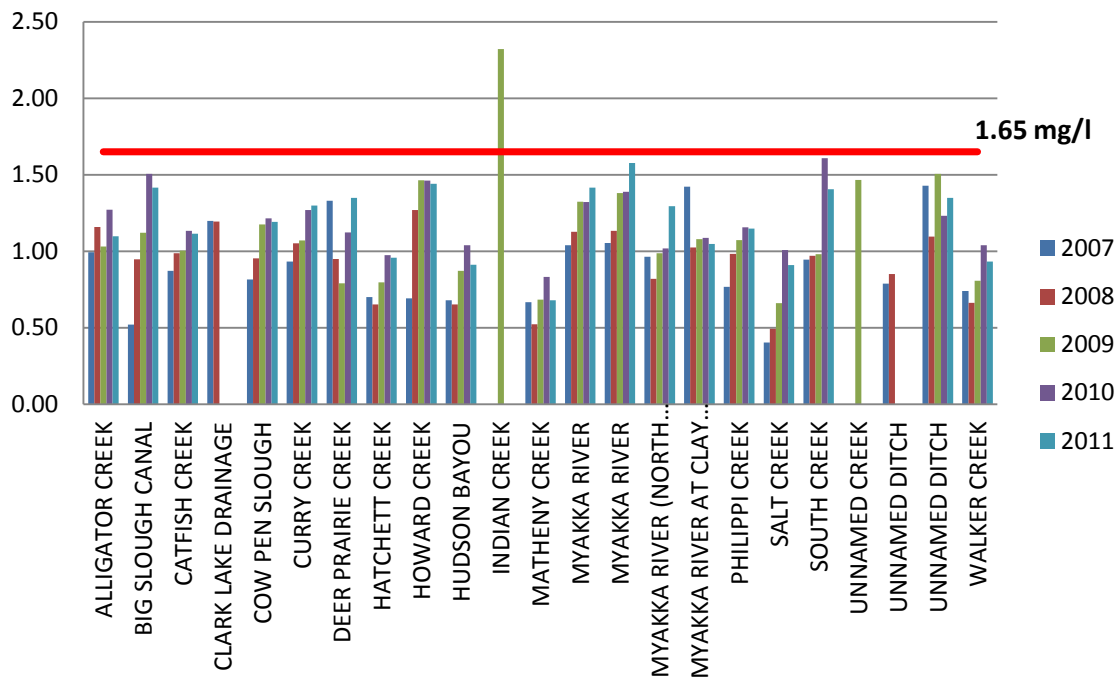
Jon Perry
Sarasota County Water Resources
January 27, 2012

Frequency of exceeding numeric criteria within Sarasota County



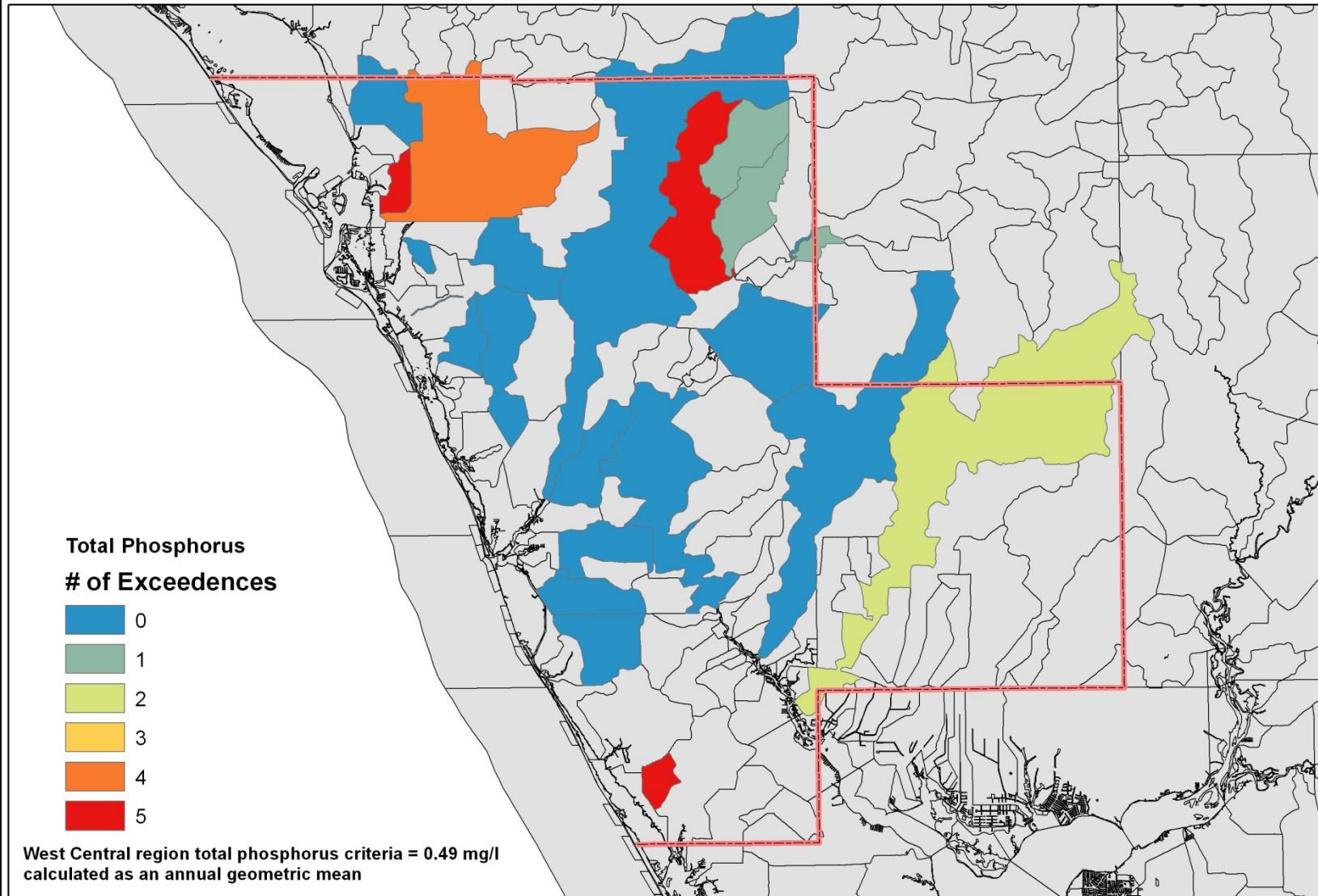
Analysis shown was calculated using data collected by Water Resources Planning spanning 2007 - 2011. Stations were assigned to a water body ID within a GIS and an annual geometric mean was calculated and compared to the proposed standard. Analysis for Class I or III freshwater streams only. Biological confirmations, such as chlorophyll a or SCI still required for impairment listings.

Total nitrogen geometric means for freshwater stream WBIDs



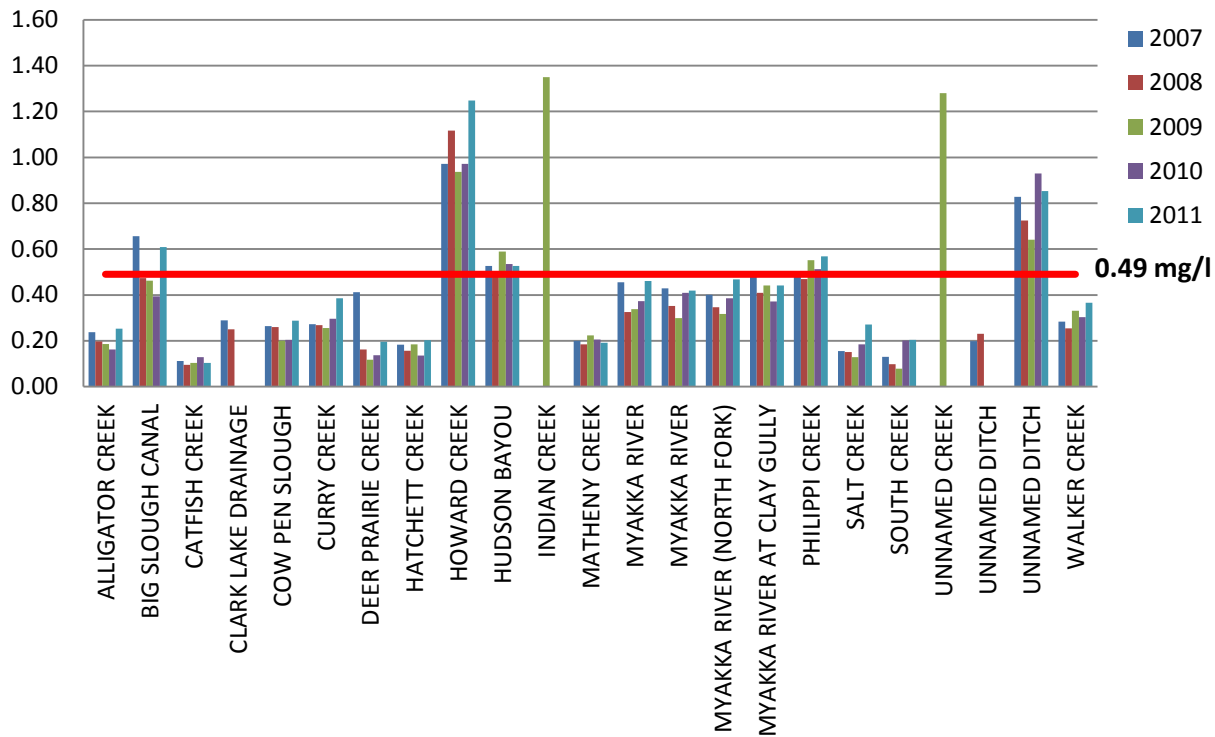
WATERBODY	WBID	2007	2008	2009	2010	2011	Exceedences
ALLIGATOR CREEK	2030A	0.99	1.16	1.03	1.27	1.10	0
BIG SLOUGH CANAL	1976	0.52	0.95	1.12	1.50	1.42	0
CATFISH CREEK	1984AA	0.87	0.99	1.00	1.13	1.11	0
CLARK LAKE DRAINAGE	1971A	1.20	1.19				0
COW PEN SLOUGH	1924	0.82	0.95	1.18	1.21	1.19	0
CURRY CREEK	2009	0.93	1.05	1.07	1.27	1.30	0
DEER PRAIRIE CREEK	1978	1.33	0.95	0.79	1.12	1.35	0
HATCHETT CREEK	2015A	0.70	0.65	0.80	0.97	0.96	0
HOWARD CREEK	1940	0.69	1.27	1.46	1.46	1.44	0
HUDSON BAYOU	1953A	0.68	0.65	0.87	1.04	0.91	0
INDIAN CREEK	1943			2.32			1
MATHENY CREEK	1975B	0.67	0.52	0.68	0.83	0.68	0
MYAKKA RIVER	1991D	1.04	1.13	1.32	1.32	1.42	0
MYAKKA RIVER	1981B	1.05	1.13	1.38	1.39	1.58	0
MYAKKA RIVER (NORTH FORK)	1877C	0.96	0.82	0.99	1.02	1.29	0
MYAKKA RIVER AT CLAY GULLY	1972	1.42	1.02	1.08	1.09	1.05	0
PHILIPPI CREEK	1937	0.77	0.98	1.07	1.16	1.15	0
SALT CREEK	1994	0.40	0.49	0.66	1.01	0.91	0
SOUTH CREEK	1982	0.95	0.97	0.98	1.61	1.40	0
UNNAMED CREEK	1949			1.47			0
UNNAMED DITCH	1966	0.79	0.85				0
UNNAMED DITCH	2050	1.43	1.10	1.51	1.23	1.35	0
WALKER CREEK	1936A	0.74	0.66	0.81	1.04	0.93	0

Frequency of exceeding numeric criteria within Sarasota County



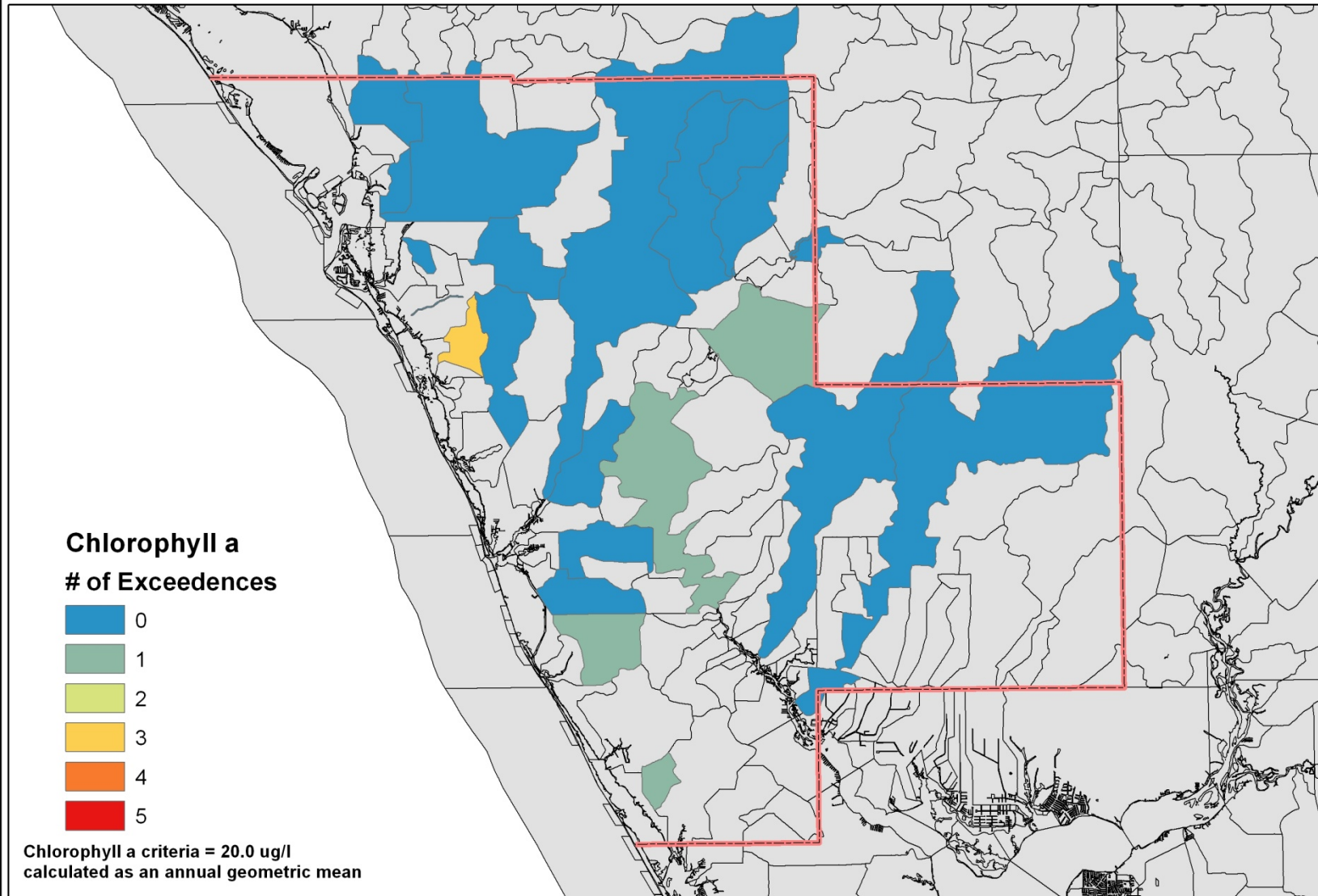
Analysis shown was calculated using data collected by Water Resources Planning spanning 2007 - 2011. Stations were assigned to a water body ID within a GIS and an annual geometric mean was calculated and compared to the proposed standard. Analysis for Class I or III freshwater streams only. Biological confirmations, such as chlorophyll a or SCI still required for impairment listings.

Total phosphorus geometric means for freshwater stream WBIDs



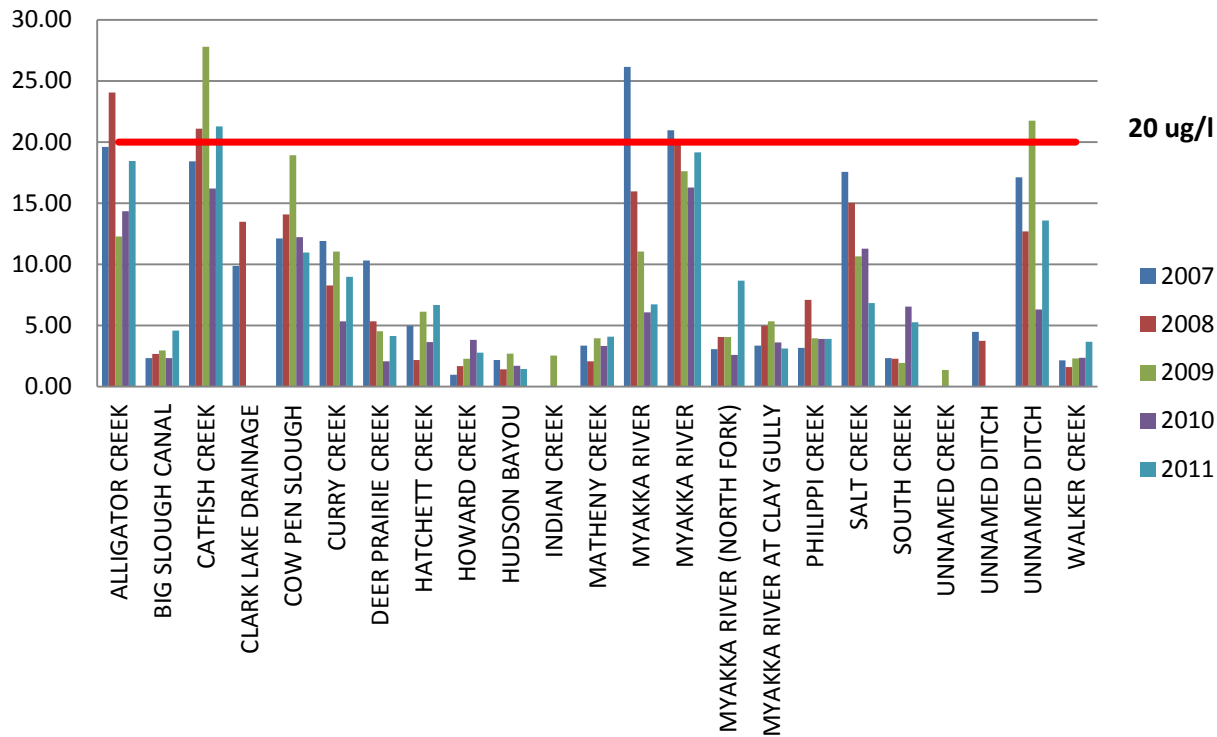
WATERBODY	WBID	2007	2008	2009	2010	2011	Exceedences
ALLIGATOR CREEK	2030A	0.24	0.20	0.19	0.16	0.25	0
BIG SLOUGH CANAL	1976	0.66	0.47	0.46	0.39	0.61	2
CATFISH CREEK	1984AA	0.11	0.10	0.10	0.13	0.10	0
CLARK LAKE DRAINAGE	1971A	0.29	0.25				0
COW PEN SLOUGH	1924	0.26	0.26	0.20	0.20	0.29	0
CURRY CREEK	2009	0.27	0.27	0.26	0.30	0.39	0
DEER PRAIRIE CREEK	1978	0.41	0.16	0.12	0.14	0.20	0
HATCHETT CREEK	2015A	0.18	0.16	0.18	0.14	0.20	0
HOWARD CREEK	1940	0.97	1.12	0.94	0.97	1.25	5
HUDSON BAYOU	1953A	0.53	0.50	0.59	0.54	0.53	5
INDIAN CREEK	1943			1.35			1
MATHENY CREEK	1975B	0.20	0.18	0.22	0.21	0.19	0
MYAKKA RIVER	1991D	0.46	0.33	0.34	0.37	0.46	0
MYAKKA RIVER	1981B	0.43	0.35	0.30	0.41	0.42	0
MYAKKA RIVER (NORTH FORK)	1877C	0.40	0.35	0.32	0.39	0.47	0
MYAKKA RIVER AT CLAY GULLY	1972	0.49	0.41	0.44	0.37	0.44	1
PHILIPPI CREEK	1937	0.50	0.47	0.55	0.51	0.57	4
SALT CREEK	1994	0.16	0.15	0.13	0.18	0.27	0
SOUTH CREEK	1982	0.13	0.10	0.08	0.20	0.20	0
UNNAMED CREEK	1949			1.28			1
UNNAMED DITCH	1966	0.20	0.23				0
UNNAMED DITCH	2050	0.83	0.72	0.64	0.93	0.85	5
WALKER CREEK	1936A	0.28	0.25	0.33	0.30	0.37	0

Frequency of exceeding numeric criteria within Sarasota County



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Chlorophyll a geometric means for freshwater stream WBIDs



WATERBODY	WBID	2007	2008	2009	2010	2011	Exceedences
ALLIGATOR CREEK	2030A	19.61	24.06	12.27	14.33	18.45	1
BIG SLOUGH CANAL	1976	2.35	2.67	2.95	2.34	4.57	0
CATFISH CREEK	1984AA	18.44	21.08	27.80	16.21	21.29	3
CLARK LAKE DRAINAGE	1971A	9.87	13.48				0
COW PEN SLOUGH	1924	12.13	14.09	18.92	12.23	10.96	0
CURRY CREEK	2009	11.91	8.27	11.04	5.34	8.97	0
DEER PRAIRIE CREEK	1978	10.31	5.35	4.54	2.08	4.15	0
HATCHETT CREEK	2015A	4.97	2.19	6.13	3.66	6.68	0
HOWARD CREEK	1940	0.97	1.68	2.28	3.82	2.78	0
HUDSON BAYOU	1953A	2.19	1.43	2.71	1.70	1.45	0
INDIAN CREEK	1943			2.55			0
MATHENY CREEK	1975B	3.36	2.07	3.95	3.34	4.09	0
MYAKKA RIVER	1991D	26.15	15.96	11.06	6.08	6.73	1
MYAKKA RIVER	1981B	20.98	19.97	17.62	16.27	19.16	1
MYAKKA RIVER (NORTH FORK)	1877C	3.06	4.06	4.06	2.61	8.67	0
MYAKKA RIVER AT CLAY GULLY	1972	3.35	4.97	5.35	3.62	3.11	0
PHILIPPI CREEK	1937	3.18	7.09	3.97	3.91	3.89	0
SALT CREEK	1994	17.56	15.02	10.66	11.29	6.82	0
SOUTH CREEK	1982	2.34	2.27	1.94	6.55	5.27	0
UNNAMED CREEK	1949			1.37			0
UNNAMED DITCH	1966	4.49	3.74				0
UNNAMED DITCH	2050	17.12	12.69	21.75	6.30	13.58	1
WALKER CREEK	1936A	2.16	1.60	2.32	2.35	3.67	0