

Summary of NRC Reports for MC20: 2004–2015
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	2004	2005	2006	2007	Est 2005	Est 2006	Est 2007	2008	2009	2010	2011	2012	2013	2014	2015 Q1	Total or "Grand Average" (2005 – 2015Q1)	Ratio to Taylor's Reported Values	@25/gal (minimum CWA fine)
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 1. Statistics of reported observations
 – Numbers of reports and their providers
 – Reports that show zero amounts of material
 – Reports with anomalies
 – Statistics of different sheen descriptions
 2. Average & Median reported sheen area
 3. Average & Median estimated amounts of material
 4. Average & Median effective sheen thickness

See text for graphs that show what these tables mean. In particular, there are graphs for:
 – the numbers of reports and their providers including the number of reports that show zero amount of material;
 – the percentages of Taylor observations showing different kinds of sheen, and another graph comparing what percentages of other observations were of rainbow or heavier sheen;
 – the average daily amounts of material reported or estimate for each year's observations
 – the cumulative totals of observed material through end of March 2015 (2015Q1) by different observers, in particular by Taylor, NOAA and OWOC.

STATISTICS OF REPORTED OBSERVATIONS:

– NUMBERS OF REPORTS AND THEIR PROVIDERS

Total No. of NRC reports (2004 Oct–2015 Mar: 125 mos).	2	1	0	2	1	0	2	331	209	184	187	327	364	361	83	2,049		
No. of NRC reports by Taylor	2	0	0	1	0	0	1	331	209	182	186	319	328	322	77	1,955		
% of all NRC reports made by Taylor	100.0%	0.0%	0	50.0%	0.0%	0	50.0%	100.0%	100.0%	98.9%	99.5%	97.6%	90.1%	89.2%	92.8%	95.4%		
No. of NRC reports filed by Other (non-Taylor, non-NOAA, including OWOC)	0	1	0	1	1	0	1	0	0	2	1	8	6	1	0	20		
% of all NRC reports made by Other	0.0%	100.0%	0	50.0%	100.0%	0	50.0%	0.0%	0.0%	1.1%	0.5%	2.4%	1.6%	0.3%	0.0%	1.0%		
No. of OWOC published observations (w/ photos, video, GPS tracks, flight logs)	0	0	0	0	0	0	0	0	0	0	6	11	14	6	2	39		
No. of OWOC NRC reports submitted for MC20	0	0	0	0	0	0	0	0	0	0	1	1	5	0	0	7		
No. of NRC reports by NOAA/NESDIS/ Marine Pollution Surveillance	0	0	0	0	0	0	0	0	0	0	0	0	30	38	6	74		
% of all NRC reports made by NOAA	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.2%	10.5%	7.2%	3.6%		

– REPORTS THAT SHOW ZERO AMOUNTS OF MATERIAL

Note: Amounts of Material are shown as "zero" in all NRC reports except those provided by Taylor Energy, despite ample information from other reports from which to estimate Amounts of Material (which estimates have been made by OnWingsOfCare.org and are included herein). The Taylor estimates are inconsistent with established international (BAOAC) guidelines adopted by both NOAA- and the U.S. Coast Guard for aerial observation of marine oil spills. Estimates of total pollution in MC20 since 2004 would be in serious error if they were based on the Taylor NRC reports as they stand.

No. of NRC reports where Amt of Material = 0 despite data indicating Amt > 0	0	1	0	1	1	0	1	8	3	17	7	10	49	53	9	158		
% of all NRC reports where Amt = 0 when data indicates Amt > 0	0%	100%	0	50%	100%	0	50%	2%	1%	9%	4%	3%	13%	15%	11%	8%		
No. of Taylor reports where Amt of Material = 0 despite data indicating Amt > 0.	0	0	0	0	0	0	0	8	3	15	6	3	22	14	3	74		
% of Taylor reports with Amt = 0 despite data for Amt > 0.	0.0%	0	0	0.0%	0	0	0.0%	2.4%	1.4%	8.2%	3.2%	0.9%	6.7%	4.3%	3.9%	3.8%		
No. of Other reports that show Amt = 0	0	1	0	1	1	0	1	0	0	1	1	8	6	0	0	18		
% of Other reports that show Amt = 0	0	100.0%	0	100.0%	100.0%	0	100.0%	0	0	50.0%	100.0%	100.0%	100.0%	0.0%	0	90.0%		
No. of NOAA reports that show Amt = 0	0	0	0	0	0	0	0	0	0	0	0	0	30	38	6	74		
% of NOAA reports that show Amt = 0	0	0	0	0	0	0	0	0	0	0	0	0	100%	100%	100%	100%		

– REPORTS WITH ANOMALIES

Anomalies include unrealistically low equivalent average sheen thickness, non-zero amounts of material reported when there is critical information missing about the sheen area size or appearance.

No. of Taylor reports where Equiv Avg Thickness (ET) is nonzero and < 0.04 microns. (ET = 0.94 x Gal / Acres)	2	0	0	1	0	0	1	316	208	150	172	318	315	298	65	1,843		
% of Taylor reports where 0 < ET < 0.04 micron	100%	0	0	100%	0	0	100%	95.5%	99.5%	82%	92%	100%	96%	93%	84%	94%		

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No of Taylor reports where 0 < ET < 0.01 micron	0	0	0	0	0	0	0	242	159	57	100	106	136	176	22	998		
% of Taylor reports where 0 < ET < 0.01 micron	0%	0%	0%	0%	0%	0%	0%	73%	76%	31%	54%	33%	41%	55%	29%	51%		
No. of reports where 0 < ET < 0.003 micron	0	0	0	0	0	0	0	87	69	16	7	17	33	70	4	303		
% of reports w/ 0 < ET < 0.003	0%	0%	0%	0%	0%	0%	0%	26%	33%	9%	4%	5%	10%	22%	5%	15%		
No. of reports where sheen color or size info is absent or not copied from NOAA/NESDIS or other web reports.	0	0	0	1	0	0	1	29	9	18	21	21	58	41	2	200		
% of reports where sheen color or size are missing	0%	0%	0%	50%	0%	0%	50%	9%	4%	10%	11%	6%	16%	11%	2%	10%		
No. of Taylor reports missing sheen color or size but including a nonzero Amt of Material	0	0	0	1	0	0	1	26	5	14	22	43	26	17	6	160		
% of reports where Amt >0 but there is no data on sheen color or size	0%	0%	0%	50%	0%	0%	50%	8%	2%	8%	12%	13%	7%	5%	7%	8%		
— STATISTICS OF DIFFERENT SHEEN DESCRIPTIONS																		
No. of Taylor reports citing colored, dull, or dark sheen	1	0	0	0	0	0	0	17	17	12	17	73	64	90	22	312		
% of Taylor reports citing colored, dull, or dark sheen	50.0%	0%	0%	0.0%	0%	0%	0.0%	5.1%	8.1%	6.6%	9.1%	22.9%	19.5%	28.0%	28.6%	16.0%		
No. of Other reports citing colored, dull, or dark sheen	0	1	0	0	1	0	0	0	0	1	1	4	6	0	0	13		
% of Other reports citing colored, dull, or dark sheen	0%	100%	0%	0%	100%	0%	0%	0%	0%	50%	100%	50%	100%	0%	0%	65%		
No. of OWOC obsvns citing colored, dull, or dark sheen	0	0	0	0	0	0	0	0	0	0	5	9	13	6	2	35		
% of OWOC obsvns citing colored, dull, or dark sheen	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	83%	82%	93%	100%	100%	90%		
No. of Taylor reports citing only "Silvery"	0	0	0	0	0	0	0	31	27	43	37	73	98	104	32	445		
% of Taylor reports citing only "Silvery"	0.0%	0%	0%	0.0%	0%	0%	0.0%	9.4%	12.9%	23.6%	19.9%	22.9%	29.9%	32.3%	41.6%	22.8%		
No. of Taylor reports citing "Barely Discernible"	1	0	0	0	0	0	0	254	157	112	112	126	137	107	21	1,026		
% of Taylor reports citing "Barely Discernible"	50.0%	0%	0%	0.0%	0%	0%	0.0%	76.7%	75.1%	61.5%	60.2%	39.5%	41.8%	33.2%	27.3%	52.5%		
No. of Taylor reports missing sheen description	0	0	0	1	0	0	1	29	8	15	20	47	29	21	2	172		
% of Taylor reports missing sheen description	0.0%	0%	0%	100.0%	0%	0%	100.0%	8.8%	3.8%	8.2%	10.8%	14.7%	8.8%	6.5%	2.6%	8.8%		
AVERAGE REPORTED SHEEN AREA (acres)																		
Avg reported sheen area - all Taylor NRC reports (acres)	1,218	0	0	279	0	0	279	1,317	1,080	1,154	1,115	301	323	2,666	4,154	1,377		
MEDIAN sheen area - Taylor	1,218	0	0	279	0	0	279	648	359	128	138	172	71	244	750	310		
Avg reported sheen area - Other NRC reports (acres)	0	2,754	0	112	2,754	0	112	0	0	IGNORE - 212	167	1,758	579	19	0	898		
MEDIAN sheen area - Other	0	2,754	0	112	2,754	0	112	0	0	IGNORE - 211,883	167	55	274	19	0	564		
Avg reported sheen area - All OWOC observations (acres)	0	0	0	0	0	0	0	0	0	0	702	1,077	705	1,562	5,085	1,826	0.7	
MEDIAN sheen area - OWOC	0	0	0	0	0	0	0	0	0	0	464	558	421	1,059	5,085	1,517	1.6	
Avg reported sheen area - Taylor on days of OWOC obsvns	0	0	0	0	0	0	0	0	0	0	1,090	362	260	7,670	3,877	2,652	1.0	
MEDIAN sheen area - Taylor on OWOC obs days	0	0	0	0	0	0	0	0	0	0	346	188	62	310	3,877	957	1.0	
Avg reported sheen area - NOAA NRC reports (acres)	0	0	0	0	0	0	0	0	0	0	0	0	6,224	8,131	39,897	18,084	4.7	
MEDIAN sheen area - NOAA	0	0	0	0	0	0	0	0	0	0	0	0	942	1,265	18,480	6,896	12.1	
Avg reported sheen area - Taylor on days of NOAA obsvns	0	0	0	0	0	0	0	0	0	0	0	0	201	2,171	9,181	3,851	1.0	
MEDIAN sheen area- Taylor on days of NOAA obsvns	0	0	0	0	0	0	0	0	0	0	0	0	111	195	1407	571	1.0	
AUTHOR'S BEST ESTIMATE of Avg Daily Sheen Area (acres)	0	0	0	0	1,000	500	300	1,317	1,080	1,154	1,115	500	600	2,666	4,500	1,339		

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AUTHOR'S BEST ESTIMATE OF MEDIAN Sheen Area (acres)	0	0	0	0				648	359	128	300	500	300	800	1,000	430			
AVERAGE DAILY AMOUNTS OF MATERIAL (US gallons)	<p>Note from above that the "grand average" sheen area based just on OWOC's published flights (1,826 acres, with average median 1,517 acres) is actually 40% smaller than that for Taylor's reports on the same days (2,652 acres, with average median 957 acres). That is why we include the median quantities here. A single incident (such as happened on October 10, 2014), where Taylor suddenly and anomalously reports a very large area or amount of material, skews their average, where as the median reveals their general tendency to under-estimate amounts.</p> <p>For example: on October 9, both OWOC and Taylor reported substantial amount of heavy rainbow and dull sheen, but Taylor still estimated a low amount of material. (OWOC estimated 5,085 acres and 2,365 gal, confirmed by a sampling boat with whom we were working. Taylor estimated 3,178 acres but only 61.1 gal, or an equivalent average thickness of 0.018 micron — laughable to the scientists on the boat who passed through and picked up thick oil).</p> <p>But the next day, October 10, Taylor suddenly reported a sheen area of 70,513 acres (16 nm b 5.2 nm) and reported 1,962.65 gal (which after BAOAC correction could be more than 15,000 gallons!). This single day skewed their average for 2014 to bring it closer to being aligned with reality, but still a factor of about 17 too low. Two days later, Taylor was back to reporting totals of 3 and 4 gallons, and on October 15, they reported zero amount of material.</p>																		
Avg Daily Reported Amt of Mtrl from Taylor (gal) "RAM"	50	0	0	4	0	0	4	17	8	20	23	7	6	39	46	19			
MEDIAN Amt - Taylor "M-RAM"	50	0	0	4				3.2	1.2	2	2	3	1	0.9	14	3			
Avg Re-estimated Amt of Mtrl from Taylor (w/ BAOAC sheen thickness guidelines) (gal) "B-RAM"	201	0	0	298	0	0	298	192	139	158	358	72	64	799	965	338			
MEDIAN Corrected amt: "MB-RAM"	201	0	0	298	0	0	298	77	39	19	23	33	14	66	190	84			
Ratio of Total Year's Re-estimated to Reported Taylor Amts: "Total B-RAM / Total RAM"	4	0	0	69	0	0	69	11	18	8	15	11	10	20	21	20			
MEDIAN Ratio of re-estimated to reported Taylor: "B-RAM / RAM"	4	0	0	1			1	20	28	8	13	12	15	29	15	16			
Avg Daily Amt of Mtrl estimated from Other reports (gal) "OAM"	0	2,944	0	24	10	0	24	0	0	212	41	255	217	20	—	111			
MEDIAN Amt - Other "M-OAM"	0	2,944	0	24			24	0	IGNORE - 211,833		41	65	144	20	0	59			
Avg Daily Amt of Mtrl estimated from OWOC observations (gal) "WAM"	0	0	0	0	0	0	0	0	0	0	251	267	209	726	1,058	502	25.5		
MEDIAN Amt - OWOC "M-WAM"	0	0	0	0	0	0	0	0	0	0	218	114	122	246	1,058	352	37.2		
Avg Daily Reported Amt of Mtrl from Taylor on days of OWOC obsvns "RAM for OWOC days"	0	0	0	0	0	0	0	0	0	0	25	6.1	4.3	26	37	20	1.0		
MEDIAN Amt - Taylor on OWOC obs days "M-RAM for OWOC days"	0	0	0	0	0	0	0	0	0	0	5	3.2	1	0.6	37	9	1.0		
Avg Daily Amt of Mtrl - Taylor Re-Estimated w/ BAOAC sheen thickness, on days of OWOC observations "B-RAM for OWOC days"	0	0	0	0	0	0	0	0	0	0	124	59	51.3	2,093	623	590			
MEDIAN corrected Taylor amt on OWOC obs days "MB-RAM for OWOC days"	0	0	0	0	0	0	0	0	0	0	49	27	31.9	50	623	156			
Ratio of Total Year's corrected to Total Year's reported Taylor Amountson days of OWOC observations "Total B-RAM / Total RAM for OWOC days"	0	0	0	0	0	0	0	0	0	0	4.9	9.7	12	81	17.7	25			
MEDIAN Ratio corrected to reported Taylor for OWOC days:	0	0	0	0	0	0	0	0	0	0	9	15	26	89	17.7	31			
Ratio of Total Year's OWOC to Total Year's Re-estimated Taylor Amounts on days of OWOC obs (weighted ratio or simple ratio of year's totals: " Total WAM / Total B-RAM for OWOC days"	0	0	0	0	0	0	0	0	0	0	2.0	4.5	4.1	0.3	1.7	2.5			
Ratio of Total Year's OWOC to Total Year's Taylor Amounts on days of OWOC obs (weighted ratio or simple ratio of year's totals) " Total WAM / Total RAM for OWOC days"	0	0	0	0	0	0	0	0	0	0	9.9	43.9	49	27.9	29.0	32			
Avg Daily Ratio (OWOC/Re-estimated Taylor Amounts) on days of OWOC observations "WAM / B-RAM"	0	0	0	0	0	0	0	0	0	0	11.8	5.7	5.4	3.1	2.1	6			
Avg Daily Ratio (OWOC/Taylor-reported Amounts) on days of OWOC observations "WAM / RAM"	0	0	0	0	0	0	0	0	0	0	563	83.7	90	300	28.3	213			

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MEDIAN Ratio OWOC amt to Corrected Taylor: "WAM / B-RAM"	0	0	0	0				0	0	0	3	3.5	4	2	2.1	3		
MEDIAN Ratio OWOC amt to reported Taylor: "WAM / RAM"	0	0	0	0				0	0	0	42	32.2	66	209	28.3	75		
Avg Daily Amt of Mtrl estimated from NOAA reports (BAOAC w/ 0.1 micron thickness (gal) "NAM"	0	0	0	0	0	0	0	0	0	0	0	0	665	869	4,265	1,933	83.1	
MEDIAN Amt - NOAA "M-NAM"	0	0	0	0				0	0	0	0	0	101	135	1,976	737	56.1	
Avg Daily Reported Amt of Mtrl from Taylor on days of NOAA obsvns "RAM for NOAA days"	0	0	0	0	0	0	0	0	0	0	0	0	3	14.0	53.0	23	1.0	
MEDIAN Amt - Taylor on NOAA obs days "M-RAM for NOAA days"	0	0	0	0				0	0	0	0	0	1	1.0	37.0	13	1.0	
Avg Daily Amt of Mtrl - Taylor Re-Estimated w/ BAOAC sheen thickness, on days of NOAA observations "B-RAM for NOAA days"	0	0	0	0	0	0	0	0	0	0	0	0	51	397	1,931	793		
MEDIAN corrected Taylor Amt on NOAA Obs days "MB-RAM for NOAA days"	0	0	0	0				0	0	0	0	0	28	50	206	95		
Ratio of Total Year's corrected to Total Year's reported Taylor Amounts on days of NOAA obsvns "Total B-RAM / Total RAM for NOAA days"	0	0	0	0	0	0	0	0	0	0	0	0	18	28.0	36.4	28		
MEDIAN Ratio NOAA Amt to reported Taylor: "NAM / RAM"	0	0	0	0				0	0	0	0	0	19	39.0	19.4	26		
Ratio of Total Year's NOAA to Total Year's Re-estimated Taylor Amounts on days of NOAA observations (weighted ratio or simple ratio of totals) "Total NAM / Total B-RAM for NOAA days"	0	0	0	0	0	0	0	0	0	0	0	0	13	2.2	2	6		
Ratio of Total Year's NOAA to Total Year's Taylor Taylor Amounts on days of NOAA observations (weighted ratio or simple ratio of totals) "Total OM / Total RAM for NOAA days"	0	0	0	0	0	0	0	0	0	0	0	0	239	63	80	127		
Avg Daily Ratio (NOAA /Re-estimated Taylor Amounts) on days of NOAA observations "NAM / B-RAM"	0	0	0	0	0	0	0	0	0	0	0	0	78	46	18.5	48		
Avg Daily Ratio (NOAA / Taylor-reported Amounts) on days of NOAA observations "NAM / RAM"	0	0	0	0	0	0	0	0	0	0	0	0	1,613	4,549	96.0	2,086		
MEDIAN Ratio NOAA amt to Corrected Taylor: "NAM / B-RAM"	0	0	0	0				0	0	0	0	0	3	2	3.5	3		
MEDIAN ratio NOAA amt to reported Taylor: "NAM / RAM"	0	0	0	0				0	0	0	0	0	72	64	56.9	64		
AUTHOR'S BEST ESTIMATE of Avg Daily Amounts (gal)				100	107	107	321	282	173	185	358	107	96	855	962	476		
AUTHOR'S BEST ESTIMATE of MEDIAN Daily Amt (gal)					107	107	321	139	58	21	96	107	48	257	323	144		
<p>The grand average daily Amount of Material based on OWOC's 40 published flights (502 gal) is about 15% <i>less</i> than the BAOAC-corrected daily average amount from Taylor's reports (590), but about 25 times larger than Taylor's actually reported average daily amount of material (20 gal). This, with the fact that Taylor's average reported sheen area is <i>larger</i> than OWOC's indicates strongly that the inaccuracies in Taylor's reports lies primarily with improper estimation protocols and perhaps secondarily with inaccurate observing or reporting (in that they often seem to miss seeing the rainbow and heavier sheen).</p>																		
TOTALS TO DATE (TTD) as of end of each year*					TTD 2005	TTD 2006	TT 2007	TTD 2008	TTD 2009	TTD 2010	TTD 2011	TTD 2012	TTD 2013	TTD 2014	TTD as of end of 2015Q1		Ratio to Taylor Reported Totals to Date	@25/gal (minimum CWA fine)
Cumulative Total Oil - Taylor Reports	(That the grand	0	0	4	—	—	1,460	7,665	10,585	17,958	26,353	28,835	31,025	45,260	49,458	49,458	1.0	\$1,236,438

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Cumulative Total Oil - Corrected Taylor (BAOAC)		0	0	298	—	—	108,770	178,850	229,585	287,255	417,925	444,205	467,565	759,200	847,256	847,256	17.1	\$21,181,406
Cumulative Total Oil - Other reports		0	0	0	3,650	3,650	12,390	12,390	12,390	287,255	391,990	485,065	564,270	—	—	—	—	—
Cumulative Total Oil - OnWingsOfCare observations	0	0	0	0	—	—	—	—	—	287,255	378,870	476,325	552,610	817,600	914,143	914,143	18.5	\$22,853,563
Cumulative Total Oil - NASA/NESDIS satellite	0	0	0	0	—	—	—	—	—	—	—	—	686,930	1,004,115	1,393,296	1,393,296	28.2	\$34,832,406
Cumulative Total Oil - BEST ESTIMATE	T			100	39,019	78,037	195,093	297,867	361,077	428,618	559,135	598,154	633,270	945,340	1,033,132	1,033,132	20.9	\$25,828,296
	<p>*Assumptions: Totals to date use the previous year's average daily amount multiplied by 365 days. We neglect all amounts prior to late 2007, since Taylor reported virtually none prior to 2008. Therefore, these are LOWER estimates of the total amounts of material to date. We let the OWOC total to date begin where the BAOAC-corrected Taylor total to date was at the end of 2010, the year before OWOC began publishing regular observations. Similarly, we let the NOAA total to date begin where the BAOAC-corrected Taylor total to date was at the end of 2012, the year before NOAA began publishing regular observations. The totals for "Other" NRC reports are not so reliable, since very few other have been filed, and none in 2014 or 2015Q1. OWOC stopped filing NRC reports out of frustration with them, and opted to continue to publish observations instead. ==> Note that the final totals estimated both from OWOC observations or from re-estimation of the Taylor reports using the BAOAC guidelines give almost identical estimated totals to date, namely around 900,000 gallons and about 18 times larger than what the Taylor reports would indicate. The NOAA / NESDIS satellite data has yet to be understood well, because it cannot tell us the appearance (hence thickness) of the sheen that it shows, although it is certainly a superb tool for showing the area extent to which the pollution has spread.</p>																	
Avg Daily Equiv Thickness all Taylor reports (microns)	0.094	0	0	0.014			0.014	0.016	0.018	0.028	0.023	0.030	0.016	0.012	0.030	0.021	1.0	
MEDIAN Thickness - Taylor "M-RET"		0	0	0.014			0.014	0.006	0.004	0.016	0.010	0.015	0.011	0.007	0.017	0.011	1.0	
Avg Daily Equiv Thickness all Taylor reports Re-Estimated w/ BAOAC sheen thickness (microns)	0.408	0	0	0.015			0.015	0.139	0.146	0.181	0.183	0.249	0.251	0.340	0.325	0.224		
MEDIAN Corrected Thickness 0 "M-BRET"		0	0	0.015			0.015	0.100	0.100	0.100	0.100	0.200	0.200	0.200	0.200	0.135		
Avg Daily Equiv Thickness Other reports (microns) "OET"	0	1.000	0	0.200			0	0	100.000	0.230	2.275	0.637	1.000	0		0.668		
MEDIAN Other Thickness "M-OET"		1.000	0	0.200			0	0	100.000	0.230	0.800	0.655	1.000	0		0.819		
Avg Daily Equiv Thickness all OWOC obsvns (microns) "WET"	0	0	0	0			0	0	0	0.322	0.257	0.427	0.459		0.189	0.331		

Summary of NRC Reports for MC20: 2004—2015
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	2004	2005	2006	2007	Est 2005	Est 2006	Est 2007	2008	2009	2010	2011	2012	2013	2014	2015 Q1	Total or "Grand Average" (2005 — 2015Q1)	Ratio to Taylor's Reported Values	@25/gal (minimum CWA fine)
MEDIAN OWOC Thickness "M-WET"		0	0	0				0	0		0.310	0.240	0.320	0.345	0.189	0.281		
Avg Daily Equiv Thickness — Taylor on days of OWOC observations	0	0	0	0				0	0	0	0.017	0.013	0.016	0.006	0.009	0.012		
MEDIAN Thickness - Taylor on OWOC days		0	0	0				0	0		0.015	0.013	0.014	0.004	0.009	0.011		
Avg Daily Equiv Thickness - Taylor Re-Estimated w/ BAOAC sheen thickness, on days of OWOC observations	0	0	0	0				0	0	0	0.118	0.137	0.318	0.442	0.150	0.233		
MEDIAN Corrected Thickness - Taylor on OWOC days		0	0	0				0	0		0.100	0.100	0.200	0.405	0.150	0.191		
Avg Daily Equiv Thickness NOAA reports (microns)	0	0	0	0				0	0	0	0	0	0.100	0.100	0.100	0.100		
MEDIAN Thickness - NOAA		0	0	0				0	0		0	0	0.100	0.100	0.100	0.100		
Avg Daily Equiv Thickness — Taylor on days of NOAA observations	0	0	0	0				0	0	0	0	0	0.012	0.007	0.015	0.011		
MEDIAN Thickness - Taylor on NOAA days		0	0	0				0	0		0	0	0.009	0.005	0.010	0.008		
Avg Daily Equiv Thickness - Taylor Re-Estimated w/ BAOAC sheen thickness, on days of NOAA observations	0	0	0	0				0	0	0	0	0	0.215	0.336	0.183	0.245		
MEDIAN Corrected Thickness - Taylor on NOAA days		0	0	0				0	0		0	0	0.200	0.200	0.200	0.200		
AUTHOR'S BEST ESTIMATE of Avg Daily Equiv Thickness (microns)		1.000		0.200	1.000	0.300	0.200	0.139	0.146	0.200	0.300	0.250	0.500	0.400	0.325	0.346		
AUTHOR'S BEST ESTIMATE of MEDIAN Daily Equiv Thickness (microns)		1.000		0.200	1.000	0.300	0.200	0.139	0.100	0.200	0.300	0.250	0.500	0.400	0.325	0.341		

Note that the "grand average" (since 2004) equivalent average thickness for sheen in the Taylor reports has been 0.088 micron, which is less than 0.1 micron, the nominal thickness per BAOAC guidelines for sheen that is light gray and barely visible. That is not consistent with the considerable documentation of much thicker sheen observed at MC20 since mid-2011 when independent (non-Taylor) observers have been monitoring it.



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