

Water Column Indicator Quantile Report

SEACAR Analysis

Last compiled on 21 January, 2025

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Overview

Purpose

The purpose of the indicator quantiles is to flag records that are “unusual” relative to all of the data in the DDI for a given indicator in order to facilitate QA/QC. They are not used to filter any of the data for SEACAR analyses, and the presence of a LowerQuantile or UpperQuantile flag on a DDI record alone does not necessarily indicate there is any issue with the record (neither does the absence of a LowerQuantile or UpperQuantile flag necessarily mean that a data record is correct).

Relevant file locations

Current values can be found in the “LowQuantile” and “HighQuantile” columns of the “Ref_Parameters” worksheet.

The R script described below and the output file can be found in the *FloridaSEACAR IndicatorQuantiles* repository on GitHub:

- <https://github.com/FloridaSEACAR/IndicatorQuantiles>

Process steps

IQ_Report_Render.R & IQ_Report.Rmd

1. The *IQ_Report_Render.R* script lists all files in a given directory and filters it to a list of DDI exports to evaluate considering a list of parameters to skip (user-defined).
2. User sets the desired upper and lower quantile thresholds, as well as a number of standard deviations away from the mean to use for the calculations.
3. User sets the string value(s) in the DDI exports that should be considered as NA values.
4. The remainder of the script loops through the file list, returning the values listed below and binding them together by row into a single Excel spreadsheet that is saved to the User’s working directory.
5. For each habitat included in the User’s working directory a PDF report will be created in the “output” folder using *IQ_Report.Rmd*, which provides an overview of questionable / flagged values.
6. In addition to the PDF reports, each habitat will provide a .txt data output file in the “output/data” folder containing questionable values.

Summary

The following quantile thresholds are used for flagging “questionable” values:

- Lower quantile: **0.001**
- Upper quantile: **0.999**

Included Indicators and Parameters and the files used in this analysis:

Nekton

Indicator: Nekton - *All_NEKTON_Parameters-2024-Dec-17.txt*

- Standard Length
- Count
- Presence/Absence

Discrete WQ

Indicator: Nutrients

- Ammonia, Un-ionized (NH₃)
 - *Combined_WQ_WC_NUT_Ammonia_Un-ionized_NH3-2024-Dec-08.txt*
- Ammonium, Filtered (NH₄)
 - *Combined_WQ_WC_NUT_NH4_Filtered-2024-Dec-08.txt*
- Nitrate (NO₃)
 - *Combined_WQ_WC_NUT_Nitrate_N-2024-Dec-08.txt*
- Nitrite (NO₂)
 - *Combined_WQ_WC_NUT_Nitrite_N-2024-Dec-08.txt*
- Nitrogen, organic
 - *Combined_WQ_WC_NUT_Nitrogen_organic-2024-Dec-08.txt*
- NO₂+3, Filtered
 - *Combined_WQ_WC_NUT_NO2_3_Filtered-2024-Dec-08.txt*
- Phosphate, Filtered (PO₄)
 - *Combined_WQ_WC_NUT_PO4_Filtered-2024-Dec-08.txt*
- Total Kjeldahl Nitrogen
 - *Combined_WQ_WC_NUT_Total_Kjeldahl_Nitrogen_TKN-2024-Dec-08.txt*
- Total Nitrogen (All)
 - *Combined_WQ_WC_NUT_Total_Nitrogen-2024-Dec-08.txt*
- Total Nitrogen (Calculated)
 - *Combined_WQ_WC_NUT_Total_Nitrogen-2024-Dec-08.txt*
- Total Phosphorus
 - *Combined_WQ_WC_NUT_Total_Phosphorus-2024-Dec-08.txt*

Indicator: Water Clarity

- Chlorophyll a, Corrected for Pheophytin
 - *Combined_WQ_WC_NUT_Chlorophyll_a_corrected_for_pheophytin-2024-Dec-08.txt*
- Chlorophyll a, Uncorrected for Pheophytin
 - *Combined_WQ_WC_NUT_Chlorophyll_a_uncorrected_for_pheophytin-2024-Dec-08.txt*
- Colored Dissolved Organic Matter
 - *Combined_WQ_WC_NUT_Colored_dissolved_organic_matter_CDOM-2024-Dec-08.txt*
- Light Extinction Coefficient
 - *Combined_WQ_WC_NUT_Light_Extinction_Coefficient-2024-Dec-08.txt*
- Secchi Depth
 - *Combined_WQ_WC_NUT_Secchi_Depth-2024-Dec-08.txt*
- Total Suspended Solids
 - *Combined_WQ_WC_NUT_Total_Suspended_Solids_TSS-2024-Dec-08.txt*
- Turbidity

- *Combined_WQ_WC_NUT_Turbidity-2024-Dec-08.txt*

Indicator: Water Quality

- Dissolved Oxygen
 - *Combined_WQ_WC_NUT_Dissolved_Oxygen-2024-Dec-08.txt*
- Dissolved Oxygen Saturation
 - *Combined_WQ_WC_NUT_Dissolved_Oxygen_Saturation-2024-Dec-08.txt*
- pH
 - *Combined_WQ_WC_NUT_pH-2024-Dec-08.txt*
- Salinity
 - *Combined_WQ_WC_NUT_Salinity-2024-Dec-08.txt*
- Specific Conductivity
 - *Combined_WQ_WC_NUT_Specific_Conductivity-2024-Dec-08.txt*
- Water Temperature
 - *Combined_WQ_WC_NUT_Water_Temperature-2024-Dec-08.txt*

Continuous WQ

Indicator: Water Quality

- Dissolved Oxygen
 - *Combined_WQ_WC_NUT_cont_Dissolved_Oxygen_AllRegions-2025-Jan-15.txt*
- Dissolved Oxygen Saturation
 - *Combined_WQ_WC_NUT_cont_Dissolved_Oxygen_Saturation_AllRegions-2025-Jan-15.txt*
- pH
 - *Combined_WQ_WC_NUT_cont_pH_AllRegions-2025-Jan-15.txt*
- Salinity
 - *Combined_WQ_WC_NUT_cont_Salinity_AllRegions-2025-Jan-15.txt*
- Water Temperature
 - *Combined_WQ_WC_NUT_cont_Water_Temperature_AllRegions-2025-Jan-15.txt*

Indicator: Water Clarity

- Turbidity
 - *Combined_WQ_WC_NUT_cont_Turbidity_AllRegions-2025-Jan-15.txt*

Summary Tables

q_low: Value corresponding to the qval_low quantile for the parameter in the DDI export.

q_high: Value corresponding to the qval_high quantile for the parameter in the DDI export.

mean: Mean value for the parameter in the DDI export.

n_tot: Total number of records in the DDI export for the parameter.

n_q_low: Number of records in the DDI export that are below q_low for the parameter.

n_q_high: Number of records in the DDI export that are above q_high for the parameter.

pct_flagged: Proportion of total records in the DDI export for the parameter which have been flagged as above q_high, or below q_low.

Nekton

Indicator: **Nekton**

Table 1: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Count	0	1041.82	9.13	253092	0	254	0.10
Presence/Absence	0	1.00	0.41	253057	0	0	0.00
Standard Length	1	67.50	12.03	1359115	1167	1344	0.18

Discrete WQ

Indicator: **Nutrients**

Table 2: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Ammonia, Un-ionized (NH3)	0.00	0.48	0.03	523	1	1	0.38
Ammonium, Filtered (NH4)	-0.02	5.05	0.09	143744	143	143	0.20
Nitrate (NO3)	0.00	0.96	0.02	11230	0	12	0.11
Nitrite (NO2)	0.00	0.30	0.00	41939	2	1	0.01
Nitrogen, organic	0.03	2.70	0.57	7121	6	7	0.18
NO2+3, Filtered	0.00	2.83	0.05	161010	150	162	0.19
Phosphate, Filtered (PO4)	-0.01	0.75	0.04	61936	51	62	0.18
Total Kjeldahl Nitrogen	0.00	4.75	4.28	118592	89	118	0.17
Total Nitrogen	0.00	4.12	0.51	145119	119	144	0.18
Total Nitrogen	0.00	2.77	0.38	86051	41	86	0.15
Total Phosphorus	0.00	0.73	0.16	165226	84	166	0.15

Indicator: **Water Clarity**

Table 3: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Chlorophyll a, Corrected for Pheophytin	0.0	110.00	5.77	69339	4	64	0.10
Chlorophyll a, Uncorrected for Pheophytin	0.0	111.01	15.95	92930	26	93	0.13

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Colored Dissolved Organic Matter	0.0	698.08	26.58	26837	0	27	0.10
Light Extinction Coefficient	0.0	7.94	0.56	15549	13	16	0.19
Secchi Depth	0.1	18.96	1.37	351430	42	352	0.11
Total Suspended Solids	0.0	175.64	13.04	91364	18	92	0.12
Turbidity	0.0	125.97	4.89	316770	29	317	0.11

Indicator: **Water Quality**

Table 4: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Dissolved Oxygen	0.22	14.0	6.55	854074	814	833	0.19
Dissolved Oxygen Saturation	0.32	175.0	79.64	156005	157	156	0.20
pH	5.30	9.3	7.92	686878	643	595	0.18
Salinity	0.00	41.1	24.55	855600	0	816	0.10
Specific Conductivity	0.01	60.7	15.66	447589	398	448	0.19
Water Temperature	6.60	33.9	24.43	904772	882	841	0.19

Continuous WQ

Indicator: **Water Quality**

Table 5: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Dissolved Oxygen	0.1	13.4	6.11	14470275	5722	13662	0.13
Dissolved Oxygen Saturation	1.6	171.9	82.52	14571739	14185	14467	0.20
pH	5.0	9.0	7.80	15077771	13068	13971	0.18
Salinity	0.0	40.8	24.03	15954969	0	15450	0.10
Water Temperature	8.1	33.8	25.55	38208924	36925	36608	0.19

Indicator: **Water Clarity**

Table 6: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Turbidity	0	512	11.31	14404695	0	14377	0.1

Nekton

Low Quantile

Standard Length

Table 7: Flagged Values - Low Indicator Quantile: 1

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
841648	69	ANM2005070209	2005-07-14	0.9
871936	69	APM1998071401	1998-07-14	0.8
1214129	69	APM1999101203	1999-10-12	0.7
249565	69	APM2000091204	2000-09-12	0.9
33317	69	APM2000121205	2000-12-12	0.9
840182	69	APM2001010701	2001-01-11	0.7
2901158	69	APM2001010701	2001-01-11	0.9
24850	69	APM2001010702	2001-01-11	0.9
2649409	69	APM2001010703	2001-01-11	0.9
28353	69	APM2001010706	2001-01-11	0.7
277635	69	APM2001010706	2001-01-11	0.9
704900	69	APM2001010706	2001-01-11	0.9
33568	69	APM2001020503	2001-02-07	0.7
65816	69	APM2001060707	2001-06-15	0.8
800395	69	APM2001090406	2001-09-10	0.9
902614	69	APM2001090408	2001-09-10	0.9
4622	69	APM2002010307	2002-01-08	0.9
19487	69	APM2002010406	2002-01-09	0.9
235107	69	APM2002010406	2002-01-09	0.9
1096051	69	APM2002010406	2002-01-09	0.8
781616	69	APM2002010407	2002-01-09	0.9
239298	69	APM2002010408	2002-01-09	0.9
25961	69	APM2002030207	2002-03-07	0.9
800383	69	APM2002080705	2002-08-14	0.9
344704	69	APM2002091101	2002-09-30	0.9
1188373	69	APM2002120507	2002-12-11	0.9
2701684	69	APM2002120507	2002-12-11	0.8
2731789	69	APM2002120508	2002-12-11	0.9
881711	69	APM2003010602	2003-01-14	0.9
2732887	69	APM2003011004	2003-01-22	0.9
1682719	69	APM2003020801	2003-02-13	0.7
96364	69	APM2003030201	2003-03-10	0.9
39976	69	APM2003030606	2003-03-14	0.6
828056	69	APM2003030705	2003-03-18	0.9
545750	69	APM2003060401	2003-06-10	0.5
847423	69	APM2003060903	2003-06-24	0.7
847424	69	APM2003060903	2003-06-24	0.8
38393	69	APM2003091107	2003-09-25	0.9
4509	69	APM2003110202	2003-11-04	0.9
39256	69	APM2003110208	2003-11-04	0.8
214092	69	APM2003110208	2003-11-04	0.9
896248	69	APM2004010304	2004-01-08	0.9
858733	69	APM2004010305	2004-01-08	0.8
1612830	69	APM2004010305	2004-01-08	0.9
869012	69	APM2004010404	2004-01-09	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
714	69	APM2004051101	2004-05-20	0.9
8905	69	APM2004051101	2004-05-20	0.8
13386	69	APM2004051101	2004-05-20	0.7
13387	69	APM2004051101	2004-05-20	0.9
22103	69	APM2004051101	2004-05-20	0.9
172349	69	APM2004051101	2004-05-20	0.8
1176360	69	APM2004051101	2004-05-20	0.7
7891	69	APM2004060401	2004-06-07	0.9
213796	69	APM2004060401	2004-06-07	0.9
249692	69	APM2004060401	2004-06-07	0.8
801311	69	APM2004060401	2004-06-07	0.7
835666	69	APM2004060401	2004-06-07	0.9
2723226	69	APM2004060401	2004-06-07	0.8
19701	69	APM2004070906	2004-07-19	0.9
250734	69	APM2004073401	2004-07-20	0.9
515	69	APM2004080701	2004-08-20	0.7
1007	69	APM2004080701	2004-08-20	0.8
9815	69	APM2004080701	2004-08-20	0.9
189000	69	APM2004091005	2004-09-24	0.9
54269	69	APM2004110106	2004-11-01	0.9
2758802	69	APM2004110106	2004-11-01	0.8
2972040	69	APM2004110106	2004-11-01	0.7
215346	69	APM2004110203	2004-11-03	0.8
839799	69	APM2004110203	2004-11-03	0.9
35934	69	APM2004110204	2004-11-03	0.9
49830	69	APM2004110509	2004-11-15	0.9
138789	69	APM2004120402	2004-12-08	0.9
450724	69	APM2004120801	2004-12-16	0.9
467393	69	APM2004120801	2004-12-16	0.9
1308029	69	APM2005050303	2005-05-09	0.9
884016	69	APM2005060103	2005-06-02	0.8
284867	69	APM2005060302	2005-06-07	0.8
14849	69	APM2005080401	2005-08-09	0.9
172390	69	APM2005080501	2005-08-10	0.8
264130	69	APM2005080503	2005-08-10	0.9
843426	69	APM2005090101	2005-09-01	0.6
848059	69	APM2005090101	2005-09-01	0.5
2766417	69	APM2005090101	2005-09-01	0.6
2976076	69	APM2005090101	2005-09-01	0.9
180224	69	APM2005120305	2005-12-02	0.9
860194	69	APM2006061105	2006-06-20	0.9
90669	69	APM2006080701	2006-08-17	0.9
1859773	69	APM2006080702	2006-08-17	0.9
80359	69	APM2006080708	2006-08-17	0.7
836409	69	APM2006080708	2006-08-17	0.9
19102	69	APM2006080904	2006-08-21	0.9
19887	69	APM2006080904	2006-08-21	0.8
25499	69	APM2006080904	2006-08-21	0.9
97593	69	APM2006080904	2006-08-21	0.9
802737	69	APM2006081301	2006-08-31	0.9
98522	69	APM2006090201	2006-09-06	0.8
94107	69	APM2006090704	2006-09-15	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
57535	69	APM2006100506	2006-10-10	0.9
880798	69	APM2006110503	2006-11-09	0.9
857367	69	APM2006110504	2006-11-09	0.9
2722961	69	APM2006110504	2006-11-09	0.8
241155	69	APM2006110906	2006-11-20	0.8
839180	69	APM2006110906	2006-11-20	0.7
815365	69	APM2006120810	2006-12-12	0.9
127165	69	APM2007020407	2007-02-12	0.9
42843	69	APM2007060603	2007-06-12	0.9
58763	69	APM2007060603	2007-06-12	0.8
841324	69	APM2007060603	2007-06-12	0.9
2752529	69	APM2007060604	2007-06-12	0.8
1924299	69	APM2007070401	2007-07-09	0.9
167674	69	APM2007070602	2007-07-12	0.9
2753277	69	APM2007070602	2007-07-12	0.8
47121	69	APM2007070901	2007-07-18	0.9
216656	69	APM2007070902	2007-07-18	0.9
245990	69	APM2007080209	2007-08-03	0.9
3010031	69	APM2007080209	2007-08-03	0.8
34727	69	APM2007080210	2007-08-03	0.9
60820	69	APM2007080902	2007-08-15	0.8
1253561	69	APM2007080902	2007-08-15	0.9
136696	69	APM2007080905	2007-08-15	0.9
308357	69	APM2007080907	2007-08-15	0.8
61427	69	APM2007080908	2007-08-15	0.9
45532	69	APM2007090402	2007-09-10	0.8
208511	69	APM2007090505	2007-09-11	0.9
3011834	69	APM2007100501	2007-10-10	0.9
1776035	69	APM2007110701	2007-11-15	0.7
155298	69	APM2007110704	2007-11-15	0.9
558626	69	APM2007111106	2007-11-28	0.8
1303768	69	APM2007111106	2007-11-28	0.9
71788	69	APM2007111108	2007-11-28	0.8
1375826	69	APM2007111108	2007-11-28	0.7
1375827	69	APM2007111108	2007-11-28	0.9
2790250	69	APM2007120201	2007-12-04	0.9
2792056	69	APM2007120709	2007-12-11	0.9
1767071	69	APM2007121003	2007-12-18	0.9
783748	69	APM2008010901	2008-01-22	0.9
103966	69	APM2008020502	2008-02-11	0.9
76907	69	APM2008030304	2008-03-06	0.8
1302812	69	APM2008030304	2008-03-06	0.9
1480711	69	APM2008050807	2008-05-19	0.9
205938	69	APM2008051304	2008-05-28	0.9
67422	69	APM2008080210	2008-08-06	0.9
130190	69	APM2008081003	2008-08-20	0.7
2778478	69	APM2008081003	2008-08-20	0.8
942001	69	APM2008081004	2008-08-20	0.8
57234	69	APM2008081307	2008-08-28	0.9
984303	69	APM2008081307	2008-08-28	0.9
116625	69	APM2008091002	2008-09-17	0.7
74409	69	APM2008101004	2008-10-17	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
74540	69	APM2008101004	2008-10-17	0.9
2802603	69	APM2008101004	2008-10-17	0.9
125259	69	APM2008101006	2008-10-17	0.9
131045	69	APM2008101006	2008-10-17	0.7
181537	69	APM2008101006	2008-10-17	0.8
150454	69	APM2008110301	2008-11-04	0.9
164372	69	APM2008110301	2008-11-04	0.7
158939	69	APM2008110304	2008-11-04	0.7
182011	69	APM2008110304	2008-11-04	0.9
152229	69	APM2008110306	2008-11-04	0.9
165137	69	APM2008110306	2008-11-04	0.8
43013	69	APM2008110307	2008-11-04	0.9
146867	69	APM2008110307	2008-11-04	0.8
434086	69	APM2008120802	2008-12-16	0.9
455992	69	APM2008120802	2008-12-16	0.8
155895	69	APM2008120803	2008-12-16	0.9
471127	69	APM2008120803	2008-12-16	0.7
180397	69	APM2008120805	2008-12-16	0.9
221314	69	APM2008120806	2008-12-16	0.9
47310	69	APM2009010705	2009-01-15	0.8
198817	69	APM2009010707	2009-01-15	0.9
173641	69	APM2009010708	2009-01-15	0.7
2747477	69	APM2009020604	2009-02-12	0.9
39472	69	APM2009020904	2009-02-24	0.9
2747547	69	APM2009030403	2009-03-10	0.9
159540	69	APM2009040604	2009-04-15	0.9
57863	69	APM2009050205	2009-05-06	0.9
213961	69	APM2009050507	2009-05-14	0.9
74930	69	APM2009051105	2009-05-27	0.9
2776786	69	APM2009060102	2009-06-01	0.8
57266	69	APM2009060601	2009-06-11	0.9
83134	69	APM2009061102	2009-06-24	0.9
2760441	69	APM2009070701	2009-07-16	0.9
148507	69	APM2009071004	2009-07-28	0.9
52102	69	APM2009071005	2009-07-28	0.9
249174	69	APM2009090502	2009-09-16	0.9
100117	69	APM2009090907	2009-09-24	0.9
3041615	69	APM2009090907	2009-09-24	0.8
117060	69	APM2009100808	2009-10-14	0.9
148635	69	APM2009100808	2009-10-14	0.8
156322	69	APM2009110709	2009-11-17	0.9
407808	69	APM2009110802	2009-11-18	0.8
444635	69	APM2009110802	2009-11-18	0.9
125972	69	APM2009110807	2009-11-18	0.8
168288	69	APM2009110807	2009-11-18	0.9
187174	69	APM2009120503	2009-12-09	0.8
2800166	69	APM2009120503	2009-12-09	0.9
158148	69	APM2009120504	2009-12-09	0.9
155315	69	APM2009120601	2009-12-14	0.8
182345	69	APM2009120601	2009-12-14	0.9
2762960	69	APM2009120601	2009-12-14	0.7
131015	69	APM2009120602	2009-12-14	0.9

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50769	69	APM2010010303	2010-01-11	0.8
50771	69	APM2010010303	2010-01-11	0.7
123279	69	APM2010010303	2010-01-11	0.9
137175	69	APM2010010303	2010-01-11	0.8
159822	69	APM2010010303	2010-01-11	0.9
180116	69	APM2010010303	2010-01-11	0.6
126501	69	APM2010010304	2010-01-11	0.9
144549	69	APM2010010601	2010-01-19	0.7
172841	69	APM2010010601	2010-01-19	0.9
132386	69	APM2010010602	2010-01-19	0.8
149859	69	APM2010010602	2010-01-19	0.9
161690	69	APM2010010603	2010-01-19	0.9
166848	69	APM2010010603	2010-01-19	0.8
47021	69	APM2010010605	2010-01-19	0.8
166849	69	APM2010010605	2010-01-19	0.9
170288	69	APM2010010606	2010-01-19	0.9
59174	69	APM2010030405	2010-03-05	0.9
157301	69	APM2010030608	2010-03-09	0.9
42658	69	APM2010030801	2010-03-19	0.9
95197	69	APM2010051004	2010-05-18	0.9
38099	69	APM2010051205	2010-05-20	0.9
95759	69	APM2010051205	2010-05-20	0.6
180037	69	APM2010100605	2010-10-11	0.9
2829544	69	APM2010100608	2010-10-11	0.8
100488	69	APM2010101202	2010-10-27	0.8
121983	69	APM2010110206	2010-11-02	0.7
2797991	69	APM2010110206	2010-11-02	0.9
184532	69	APM2010120809	2010-12-15	0.9
2817223	69	APM2010120809	2010-12-15	0.9
136521	69	APM2011030710	2011-03-16	0.8
2839417	69	APM2011040504	2011-04-08	0.9
168883	69	APM2011060602	2011-06-10	0.9
88906	69	APM2011080808	2011-08-15	0.9
2820892	69	APM2011090202	2011-09-08	0.9
110827	69	APM2011090703	2011-09-15	0.9
149900	69	APM2011100505	2011-10-12	0.9
163935	69	APM2011100505	2011-10-12	0.8
195985	69	APM2011110106	2011-11-01	0.7
91995	69	APM2011110208	2011-11-02	0.8
124843	69	APM2011120608	2011-12-08	0.9
335939	69	APM2011120608	2011-12-08	0.7
133641	69	APM2012010204	2012-01-05	0.9
187963	69	APM2012010205	2012-01-05	0.9
124947	69	APM2012010607	2012-01-17	0.8
129460	69	APM2012010607	2012-01-17	0.7
132700	69	APM2012010607	2012-01-17	0.8
131037	69	APM2012020204	2012-02-02	0.9
201054	69	APM2012020204	2012-02-02	0.8
163447	69	APM2012040203	2012-04-03	0.9
168673	69	APM2012040203	2012-04-03	0.8
2808560	69	APM2012040203	2012-04-03	0.7

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171463	69	APM2012050108	2012-05-01	0.7
161270	69	APM2012050209	2012-05-02	0.9
189847	69	APM2012050304	2012-05-03	0.9
208599	69	APM2012050901	2012-05-18	0.9
90682	69	APM2012060602	2012-06-12	0.7
208729	69	APM2012060602	2012-06-12	0.8
238039	69	APM2012060602	2012-06-12	0.9
335533	69	APM2012060602	2012-06-12	0.6
2838302	69	APM2012060602	2012-06-12	0.9
257993	69	APM2012060901	2012-06-14	0.8
201070	69	APM2012060905	2012-06-14	0.6
101098	69	APM2012070902	2012-07-23	0.8
286227	69	APM2012071401	2012-07-31	0.8
78920	69	APM2012080104	2012-08-02	0.9
44405	69	APM2012090605	2012-09-14	0.9
338012	69	APM2012100709	2012-10-16	0.8
2842652	69	APM2012110608	2012-11-07	0.9
176543	69	APM2012110903	2012-11-15	0.8
176544	69	APM2012110903	2012-11-15	0.9
421528	69	APM2012110903	2012-11-15	0.7
441137	69	APM2012110903	2012-11-15	0.5
2814268	69	APM2012111003	2012-11-16	0.9
180839	69	APM2013010601	2013-01-14	0.9
327733	69	APM2013010705	2013-01-15	0.9
437386	69	APM2013030701	2013-03-15	0.9
2857452	69	APM2013040401	2013-04-08	0.9
202575	69	APM2013040402	2013-04-08	0.8
87782	69	APM2013080905	2013-08-12	0.9
181785	69	APM2013090501	2013-09-12	0.8
204836	69	APM2013090501	2013-09-12	0.9
99562	69	APM2013090502	2013-09-12	0.7
96573	69	APM2013090704	2013-09-13	0.8
2818101	69	APM2013110304	2013-11-05	0.9
304394	69	APM2013110606	2013-11-12	0.9
2822115	69	APM2013120103	2013-12-02	0.9
84816	69	APM2013120106	2013-12-02	0.9
150466	69	APM2013120106	2013-12-02	0.8
164951	69	APM2013120106	2013-12-02	0.9
2817425	69	APM2013120106	2013-12-02	0.7
311062	69	APM2013120407	2013-12-05	0.9
311997	69	APM2013120407	2013-12-05	0.8
88083	69	APM2013120808	2013-12-11	0.8
176977	69	APM2014020805	2014-02-14	0.9
2864660	69	APM2014070801	2014-07-11	0.8
3093777	69	APM2014071505	2014-07-24	0.7
190456	69	APM2014080702	2014-08-11	0.8
2825510	69	APM2014090302	2014-09-04	0.8
76553	69	APM2014090507	2014-09-10	0.8
85682	69	APM2014100204	2014-10-02	0.9
80862	69	APM2014100303	2014-10-03	0.9

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91991	69	APM2014100303	2014-10-03	0.8
208410	69	APM2014100303	2014-10-03	0.8
216894	69	APM2014100303	2014-10-03	0.9
379892	69	APM2014100303	2014-10-03	0.7
415997	69	APM2014100803	2014-10-15	0.9
84681	69	APM2014101104	2014-10-23	0.8
283493	69	APM2014101104	2014-10-23	0.9
2796090	69	APM2014101104	2014-10-23	0.7
77646	69	APM2014120705	2014-12-11	0.9
530050	69	APM2015050405	2015-05-06	0.9
128002	69	APM2015050505	2015-05-07	0.9
221023	69	APM2015050505	2015-05-07	0.8
2799460	69	APM2015050505	2015-05-07	0.9
123139	69	APM2015060106	2015-06-01	0.9
201839	69	APM2015070204	2015-07-02	0.6
248629	69	APM2015070204	2015-07-02	0.8
167094	69	APM2015090601	2015-09-09	0.9
210165	69	APM2015090605	2015-09-09	0.9
2831440	69	APM2015090605	2015-09-09	0.7
2852121	69	APM2015090906	2015-09-16	0.9
2864850	69	APM2015090906	2015-09-16	0.8
2875182	69	APM2015090906	2015-09-16	0.7
297084	69	APM2015110101	2015-11-02	0.9
182318	69	APM2015120306	2015-12-07	0.8
2857438	69	APM2015120402	2015-12-08	0.9
213586	69	APM2016010505	2016-01-13	0.8
242985	69	APM2016020202	2016-02-01	0.8
321928	69	APM2016020202	2016-02-01	0.9
194008	69	APM2016020203	2016-02-01	0.7
291361	69	APM2016020203	2016-02-01	0.9
302457	69	APM2016020203	2016-02-01	0.6
2868885	69	APM2016020203	2016-02-01	0.8
189834	69	APM2016020204	2016-02-01	0.7
284582	69	APM2016020204	2016-02-01	0.9
191597	69	APM2016020406	2016-02-02	0.7
226063	69	APM2016040507	2016-04-07	0.9
629722	69	APM2016060804	2016-06-09	0.8
200058	69	APM2016061103	2016-06-15	0.6
250242	69	APM2016061103	2016-06-15	0.9
257766	69	APM2016061103	2016-06-15	0.8
426740	69	APM2016061103	2016-06-15	0.7
342239	69	APM2016080103	2016-08-02	0.8
674043	69	APM2016100503	2016-10-10	0.7
203447	69	APM2016120205	2016-12-02	0.9
1219163	69	APM2016120402	2016-12-06	0.8
2884677	69	APM2016120608	2016-12-08	0.9
639323	69	APM2016120704	2016-12-12	0.8
2864642	69	APM2017010306	2017-01-05	0.8
207158	69	APM2017010401	2017-01-06	0.8
211183	69	APM2017010401	2017-01-06	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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198852	69	APM2017020110	2017-02-01	0.9
257108	69	APM2017020409	2017-02-02	0.9
454126	69	APM2017030306	2017-03-07	0.8
216096	69	APM2017040107	2017-04-04	0.9
842580	69	APM2017040107	2017-04-04	0.9
205327	69	APM2017060405	2017-06-05	0.6
292756	69	APM2017061302	2017-06-23	0.9
227879	69	APM2017080304	2017-08-02	0.8
698506	69	APM2017090503	2017-09-13	0.6
344829	69	APM2017090504	2017-09-13	0.9
266239	69	APM2017090608	2017-09-13	0.9
273898	69	APM2017090801	2017-09-14	0.8
205411	69	APM2017110105	2017-11-01	0.8
213854	69	APM2017110105	2017-11-01	0.9
255470	69	APM2017110105	2017-11-01	0.7
278174	69	APM2017110105	2017-11-01	0.8
1532342	69	APM2018010805	2018-01-16	0.9
1651234	69	APM2018010805	2018-01-16	0.8
1495352	69	APM2018020701	2018-02-14	0.8
1558391	69	APM2018020701	2018-02-14	0.9
1565309	69	APM2018020805	2018-02-14	0.9
1962783	69	APM2018030104	2018-03-05	0.9
1736075	69	APM2018080708	2018-08-13	0.8
1508506	69	APM2018100101	2018-10-01	0.8
1570754	69	APM2018100101	2018-10-01	0.9
1623677	69	APM2018100101	2018-10-01	0.7
1624810	69	APM2018101001	2018-10-23	0.5
1659936	69	APM2018101001	2018-10-23	0.9
1596874	69	APM2018110601	2018-11-07	0.7
1608275	69	APM2018110601	2018-11-07	0.8
2605819	69	APM2018110602	2018-11-07	0.9
1519753	69	APM2018120601	2018-12-11	0.9
1521440	69	APM2018120601	2018-12-11	0.9
1524272	69	APM2019010201	2019-01-03	0.8
1595961	69	APM2019010201	2019-01-03	0.9
1491463	69	APM2019010202	2019-01-03	0.8
1507557	69	APM2019010202	2019-01-03	0.9
1585264	69	APM2019010202	2019-01-03	0.9
2601951	69	APM2019010202	2019-01-03	0.8
1491464	69	APM2019010203	2019-01-03	0.5
1511876	69	APM2019010203	2019-01-03	0.7
1595962	69	APM2019010203	2019-01-03	0.8
1612885	69	APM2019010203	2019-01-03	0.8
1643927	69	APM2019010203	2019-01-03	0.7
1643928	69	APM2019010203	2019-01-03	0.9
1901646	69	APM2019010203	2019-01-03	0.9
1492390	69	APM2019010502	2019-01-09	0.9
1502964	69	APM2019020207	2019-02-05	0.9
2627606	69	APM2019020207	2019-02-05	0.8
1613742	69	APM2019020804	2019-02-21	0.8
1746977	69	APM2019070406	2019-07-08	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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1503257	69	APM2019080504	2019-08-06	0.9
1588216	69	APM2019080601	2019-08-06	0.7
1629107	69	APM2019080705	2019-08-07	0.7
1475859	69	APM2019080802	2019-08-08	0.7
1475862	69	APM2019080802	2019-08-08	0.8
1523483	69	APM2019081402	2019-08-20	0.9
1602528	69	APM2019081402	2019-08-20	0.7
1593994	69	APM2019090201	2019-09-05	0.9
1606187	69	APM2019090201	2019-09-05	0.8
2632719	69	APM2019090201	2019-09-05	0.9
1632321	69	APM2019090403	2019-09-06	0.5
2621643	69	APM2019090403	2019-09-06	0.8
1945448	69	APM2019090506	2019-09-09	0.9
1576036	69	APM2019090703	2019-09-07	0.9
1633139	69	APM2019110101	2019-11-04	0.9
1559981	69	APM2019110701	2019-11-15	0.9
1700734	69	APM2019110701	2019-11-15	0.8
1539734	69	APM2019120202	2019-12-02	0.9
1957031	69	APM2019120202	2019-12-02	0.7
1527552	69	APM2019120203	2019-12-02	0.8
2625190	69	APM2019120303	2019-12-03	0.8
1565094	69	APM2020010105	2020-01-06	0.9
1958160	69	APM2020010105	2020-01-06	0.8
1557675	69	APM2020010106	2020-01-06	0.9
1534760	69	APM2020010210	2020-01-06	0.8
1652184	69	APM2020010210	2020-01-06	0.7
1750311	69	APM2020010210	2020-01-06	0.9
1646989	69	APM2020010212	2020-01-06	0.9
1592460	69	APM2020010302	2020-01-07	0.9
1694927	69	APM2020010302	2020-01-07	0.7
1614334	69	APM2020040201	2020-04-01	0.9
1710538	69	APM2020060403	2020-06-10	0.9
1585011	69	APM2020070901	2020-07-16	0.7
1962163	69	APM2020070901	2020-07-16	0.9
1645145	69	APM2020090706	2020-09-25	0.9
1654456	69	APM2020100205	2020-10-06	0.9
2296562	69	APM2021050801	2021-05-25	0.8
2315558	69	APM2021050801	2021-05-25	0.6
2384338	69	APM2021050801	2021-05-25	0.9
2489263	69	APM2021050801	2021-05-25	0.7
2326303	69	APM2021060602	2021-06-08	0.9
2598155	69	APM2021070403	2021-07-08	0.9
2281208	69	APM2021070404	2021-07-08	0.7
2305885	69	APM2021070404	2021-07-08	0.8
2358258	69	APM2021070404	2021-07-08	0.9
2399891	69	APM2021070404	2021-07-08	0.8
2399892	69	APM2021070404	2021-07-08	0.9
2541575	69	APM2021070404	2021-07-08	0.6
2730272	69	APM2021070404	2021-07-08	0.7
2481795	69	APM2021070405	2021-07-08	0.7
2540145	69	APM2021070405	2021-07-08	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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2553776	69	APM2021100102	2021-10-01	0.9
2431040	69	APM2022010201	2022-01-13	0.7
2443898	69	APM2022010202	2022-01-13	0.8
2415382	69	APM2022010303	2022-01-19	0.9
2363067	69	APM2022060304	2022-06-02	0.8
2993223	69	APM2022070205	2022-07-05	0.8
2350063	69	APM2022070801	2022-07-19	0.8
2483030	69	APM2022070801	2022-07-19	0.7
2588283	69	APM2022070801	2022-07-19	0.6
2627513	69	APM2022070801	2022-07-19	0.9
2632085	69	APM2022070801	2022-07-19	0.5
2333975	69	APM2022071004	2022-07-22	0.8
2441735	69	APM2022071004	2022-07-22	0.9
2675095	69	APM2022071202	2022-07-25	0.9
2760721	69	APM2022080202	2022-08-05	0.7
2607425	69	APM2022080203	2022-08-05	0.6
1840481	69	APM2022110503	2022-11-03	0.7
1912310	69	APM2022110503	2022-11-03	0.8
2454333	69	APM2022110503	2022-11-03	0.6
2500170	69	APM2022110503	2022-11-03	0.9
2461176	69	APM2022110706	2022-11-07	0.8
2486764	69	APM2022110706	2022-11-07	0.9
347624	69	BBM2009070103	2009-07-10	0.9
320913	69	BBM2009070108	2009-07-10	0.9
339228	69	BBM2009070203	2009-07-13	0.8
269220	69	BBM2009100107	2009-10-26	0.8
378990	69	BBM2010050303	2010-05-06	0.8
354315	69	BBM2011050201	2011-05-10	0.3
437152	69	BBM2013110201	2013-11-07	0.9
2897250	69	BBM2013110201	2013-11-07	0.8
287223	69	BBM2014060103	2014-06-17	0.9
397821	69	BBM2014060110	2014-06-17	0.9
2891377	69	BBM2014070303	2014-07-18	0.9
642242	69	BBM2014070407	2014-07-22	0.9
388782	69	BBM2015110202	2015-11-16	0.9
1613428	69	BBM2019060102	2019-06-14	0.9
1619445	69	BBM2019060115	2019-06-14	0.9
1631969	69	BBM2019070303	2019-07-23	0.9
2672792	69	BBM2020090106	2020-09-03	0.9
2482861	69	BBM2021070105	2021-07-08	0.9
494957	69	CHM1989050906	1989-05-09	0.9
806605	69	CHM1991051307	1991-05-13	0.9
576457	69	CHM1991100101	1991-10-01	0.9
885227	69	CHM1991102110	1991-10-21	0.9
583051	69	CHM1992102405	1992-10-24	0.6
851783	69	CHM1992102605	1992-10-26	0.9
695575	69	CHM1992102701	1992-10-27	0.8
2880695	69	CHM1992102704	1992-10-27	0.8
684695	69	CHM1992102706	1992-10-27	0.9
653511	69	CHM1992102707	1992-10-27	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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735351	69	CHM1994092614	1994-09-26	0.9
610611	69	CHM1994100403	1994-10-04	0.7
649610	69	CHM1994100403	1994-10-04	0.9
1853523	69	CHM1994100403	1994-10-04	0.6
597680	69	CHM1994100406	1994-10-04	0.6
655180	69	CHM1994100406	1994-10-04	0.8
2885376	69	CHM1994100406	1994-10-04	0.5
687702	69	CHM1994100407	1994-10-04	0.6
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349311	69	CHM1999100502	1999-10-05	0.9
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676134	69	CHM2005091108	2005-09-06	0.8
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1017609	69	CHM2006110504	2006-11-09	0.9
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1407735	69	CHM2011041303	2011-04-22	0.6
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2244584	69	CHM2011041303	2011-04-22	0.7
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956491	69	CHM2016100508	2016-10-10	0.6
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1800857	69	CHM2018120608	2018-12-18	0.9
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1701071	69	CHM2020100201	2020-10-27	0.7
1714101	69	CHM2020100201	2020-10-27	0.8
1919052	69	CHM2020100201	2020-10-27	0.9
1973183	69	CHM2020100201	2020-10-27	0.7
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2690293	69	CHM2020100201	2020-10-27	0.8
2725383	69	CHM2020100201	2020-10-27	0.9
2717170	69	CHM2020100406	2020-10-16	0.8
2691200	69	CHM2020100801	2020-10-02	0.7
2655076	69	CHM2022070602	2022-07-08	0.9
2679005	69	CHM2022101304	2022-10-24	0.9
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1354155	69	CKM1996071703	1996-07-17	0.8
1274936	69	CKM1996080201	1996-08-02	0.9
888095	69	CKM1996091007	1996-09-10	0.8
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473408	69	CKM1997062305	1997-06-23	0.9
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543935	69	CKM2001090903	2001-09-20	0.9
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594197	69	CKM2003090310	2003-09-08	0.9
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677516	69	CKM2004050703	2004-05-17	0.6
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797875	69	CKM2004050703	2004-05-17	0.9
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1598510	69	CKM2004050703	2004-05-17	0.8
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2500197	69	CKM2004050905	2004-05-25	0.8
905059	69	CKM2005050403	2005-05-09	0.7
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864359	69	CKM2006060604	2006-06-16	0.9
798298	69	CKM2006070501	2006-07-06	0.9
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1899962	69	CKM2007060704	2007-06-14	0.9
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2563513	69	CKM2007090101	2007-09-04	0.9

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1292044	69	CKM2008080205	2008-08-04	0.9
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1122706	69	CKM2010070704	2010-07-14	0.7
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2725627	69	CKM2010070704	2010-07-14	0.6
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1298324	69	CKM2011090606	2011-09-12	0.9
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680139	69	CKM2012070802	2012-07-13	0.9
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1385930	69	CKM2012080406	2012-08-06	0.9
1177338	69	CKM2013060605	2013-06-18	0.9
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1458248	69	CKM2014060304	2014-06-03	0.9
1519661	69	CKM2014060304	2014-06-03	0.6
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1747981	69	CKM2018010201	2018-01-09	0.9
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1709799	69	CKM2019060807	2019-06-17	0.8
1715231	69	CKM2019060807	2019-06-17	0.7
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2627885	69	IRM2003020309	2003-02-06	0.9
639727	69	IRM2003030408	2003-03-11	0.9
586163	69	IRM2003070201	2003-07-02	0.8
677147	69	IRM2003070503	2003-07-08	0.8
682934	69	IRM2004010605	2004-01-20	0.8
2605496	69	IRM2004010605	2004-01-20	0.9
399547	69	IRM2004010608	2004-01-20	0.7
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442193	69	IRM2005010410	2005-01-10	0.9
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442857	69	IRM2005100402	2005-10-11	0.9
487704	69	IRM2005100408	2005-10-11	0.8
2662809	69	IRM2005110107	2005-11-01	0.8
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390572	69	IRM2006070105	2006-07-03	0.9
577929	69	IRM2006090306	2006-09-08	0.8
382202	69	IRM2006090902	2006-09-22	0.9
556315	69	IRM2006090902	2006-09-22	0.9
397273	69	IRM2006110405	2006-11-08	0.9
491351	69	IRM2006110405	2006-11-08	0.9
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883581	69	IRM2013081103	2013-08-19	0.7
1005829	69	IRM2013091303	2013-09-24	0.9
1888007	69	IRM2013110405	2013-11-05	0.9
901954	69	IRM2014020108	2014-02-03	0.8
1233501	69	IRM2014020702	2014-02-11	0.6
859058	69	IRM2014040901	2014-04-15	0.9
900163	69	IRM2014051101	2014-05-13	0.9
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2767166	69	IRM2014070302	2014-07-02	0.9
778259	69	IRM2014091302	2014-09-19	0.8
1016159	69	IRM2014101406	2014-10-16	0.9
930540	69	IRM2015040906	2015-04-14	0.9
1166945	69	IRM2015041402	2015-04-21	0.9
1989888	69	IRM2015041402	2015-04-21	0.8
895691	69	IRM2015051301	2015-05-19	0.9

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1006206	69	IRM2016091103	2016-09-28	0.9
963141	69	IRM2016091105	2016-09-28	0.9
1319409	69	IRM2016120707	2016-12-12	0.9
926184	69	IRM2017010306	2017-01-09	0.9
1022595	69	IRM2017010306	2017-01-09	0.8
843643	69	IRM2017030405	2017-03-06	0.9
1903781	69	IRM2017030408	2017-03-06	0.9
916839	69	IRM2017060206	2017-06-02	0.9
2198542	69	IRM2017081101	2017-08-18	0.8
1000576	69	IRM2017090803	2017-09-19	0.6
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1224287	69	IRM2017100108	2017-10-02	0.9
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2320114	69	IRM2018020707	2018-02-21	0.9
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2710286	69	IRM2018030401	2018-03-06	0.9
2268218	69	IRM2018050802	2018-05-17	0.8
2730139	69	IRM2018050802	2018-05-17	0.9
2719151	69	IRM2018070503	2018-07-09	0.9
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2344644	69	IRM2018080403	2018-08-06	0.9
2315670	69	IRM2018091002	2018-09-19	0.9
2317725	69	IRM2018101304	2018-10-19	0.9
2423694	69	IRM2018110403	2018-11-06	0.9
2226621	69	IRM2018120606	2018-12-10	0.9
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2719836	69	IRM2019101305	2019-10-24	0.9
1892692	69	IRM2020010902	2020-01-17	0.8
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1947852	69	IRM2020100804	2020-10-14	0.9
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2397084	69	IRM2020120402	2020-12-07	0.9
2415688	69	IRM2020120402	2020-12-07	0.6
2449436	69	IRM2020120402	2020-12-07	0.5
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1839843	69	JXM2002090804	2002-09-19	0.8
876323	69	JXM2002120503	2002-12-16	0.8
1986797	69	JXM2002120503	2002-12-16	0.9
2234975	69	JXM2003030206	2003-03-05	0.9
1042801	69	JXM2003050503	2003-05-13	0.9
913215	69	JXM2003050601	2003-05-15	0.9
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748910	69	JXM2003110305	2003-11-12	0.9
880246	69	JXM2003110308	2003-11-12	0.8

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1311549	69	JXM2004110307	2004-11-04	0.9
959081	69	JXM2004110509	2004-11-10	0.8
821855	69	JXM2004111104	2004-11-23	0.8
1311582	69	JXM2004111104	2004-11-23	0.9
913082	69	JXM2004120207	2004-12-02	0.9
928464	69	JXM2004120207	2004-12-02	0.8
764591	69	JXM2004120208	2004-12-02	0.7
1287898	69	JXM2004120208	2004-12-02	0.9
2225883	69	JXM2004120208	2004-12-02	0.8
762523	69	JXM2004120209	2004-12-02	0.9
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842916	69	JXM2004120209	2004-12-02	0.7
1086876	69	JXM2004120209	2004-12-02	0.8
863483	69	JXM2004120604	2004-12-09	0.9
777107	69	JXM2005050408	2005-05-11	0.8
993661	69	JXM2005060708	2005-06-20	0.5
2247591	69	JXM2005080501	2005-08-08	0.8
802225	69	JXM2005090404	2005-09-19	0.9
2241791	69	JXM2005090505	2005-09-09	0.9
959913	69	JXM2005100309	2005-10-26	0.8
1031722	69	JXM2005110201	2005-11-08	0.8
1068636	69	JXM2005110310	2005-11-09	0.8
1366407	69	JXM2005110310	2005-11-09	0.9
987455	69	JXM2005120202	2005-12-13	0.7
972631	69	JXM2006010506	2006-01-06	0.9
891381	69	JXM2006010508	2006-01-06	0.9
2231392	69	JXM2006050301	2006-05-08	0.9
1383596	69	JXM2006070303	2006-07-14	0.7
1027774	69	JXM2006070402	2006-07-20	0.7
999640	69	JXM2006100403	2006-10-26	0.8
1053847	69	JXM2007090107	2007-09-10	0.7
1008591	69	JXM2007110506	2007-11-13	0.8
1105566	69	JXM2007110506	2007-11-13	0.7
1121125	69	JXM2007110506	2007-11-13	0.9
1006834	69	JXM2008020406	2008-02-21	0.9
1025853	69	JXM2008020406	2008-02-21	0.9
2282118	69	JXM2008030402	2008-03-17	0.9
1036257	69	JXM2008050403	2008-05-08	0.8
973526	69	JXM2008060305	2008-06-06	0.9
1028091	69	JXM2008120204	2008-12-08	0.9
1084552	69	JXM2008120204	2008-12-08	0.6
1056573	69	JXM2009010206	2009-01-09	0.9
1047230	69	JXM2009010208	2009-01-09	0.9
904860	69	JXM2009010305	2009-01-12	0.9
1031042	69	JXM2009010305	2009-01-12	0.9
764872	69	JXM2009080201	2009-08-24	0.8
779947	69	JXM2009080201	2009-08-24	0.9
897536	69	JXM2009080201	2009-08-24	0.7

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
917768	69	JXM2009080201	2009-08-24	0.9
1117012	69	JXM2009080201	2009-08-24	0.7
950976	69	JXM2010020306	2010-02-02	0.9
1059985	69	JXM2010020306	2010-02-02	0.9
1506241	69	JXM2010040407	2010-04-20	0.9
727603	69	JXM2010050405	2010-05-18	0.6
860550	69	JXM2010050405	2010-05-18	0.9
867542	69	JXM2010050405	2010-05-18	0.7
950936	69	JXM2010050405	2010-05-18	0.6
963019	69	JXM2010050405	2010-05-18	0.9
2295944	69	JXM2010050405	2010-05-18	0.8
1072078	69	JXM2010060302	2010-06-02	0.8
1038559	69	JXM2010081303	2010-08-27	0.9
773817	69	JXM2010090208	2010-09-09	0.9
1203975	69	JXM2010090403	2010-09-08	0.9
2270890	69	JXM2010100209	2010-10-08	0.9
1217185	69	JXM2010111203	2010-11-23	0.9
980825	69	JXM2011020202	2011-02-03	0.8
1060279	69	JXM2011020508	2011-02-23	0.8
981766	69	JXM2011081303	2011-08-19	0.9
764093	69	JXM2011081305	2011-08-19	0.9
950825	69	JXM2011081305	2011-08-19	0.8
1076426	69	JXM2011081305	2011-08-19	0.7
2305795	69	JXM2012010301	2012-01-25	0.9
978353	69	JXM2012010404	2012-01-05	0.9
1016794	69	JXM2012030304	2012-03-28	0.9
1854496	69	JXM2012030409	2012-03-16	0.9
1037734	69	JXM2012040401	2012-04-10	0.9
814472	69	JXM2012070305	2012-07-23	0.9
1144695	69	JXM2012070305	2012-07-23	0.8
875476	69	JXM2012071301	2012-07-31	0.7
1189956	69	JXM2012071301	2012-07-31	0.9
1259968	69	JXM2012071301	2012-07-31	0.8
2250717	69	JXM2012071301	2012-07-31	0.7
807812	69	JXM2012091302	2012-09-13	0.8
1934432	69	JXM2012091302	2012-09-13	0.9
1046857	69	JXM2012100409	2012-10-15	0.8
2252572	69	JXM2013020201	2013-02-27	0.8
1631584	69	JXM2013020406	2013-02-22	0.8
1247768	69	JXM2013080306	2013-08-27	0.9
1276711	69	JXM2013080306	2013-08-27	0.8
1984214	69	JXM2013080306	2013-08-27	0.9
878320	69	JXM2013090503	2013-09-23	0.9
1068748	69	JXM2013110509	2013-11-19	0.7
1204640	69	JXM2013110509	2013-11-19	0.9
1867074	69	JXM2014050408	2014-05-29	0.9
1120356	69	JXM2014070304	2014-07-10	0.8
2256997	69	JXM2014070304	2014-07-10	0.9
2280767	69	JXM2014070304	2014-07-10	0.6
1900474	69	JXM2014100503	2014-10-02	0.7
924663	69	JXM2015020402	2015-02-09	0.9
716413	69	JXM2015040503	2015-04-28	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
931942	69	JXM2015040503	2015-04-28	0.9
1207546	69	JXM2015040506	2015-04-28	0.7
1536466	69	JXM2015040506	2015-04-28	0.9
974874	69	JXM2015090308	2015-09-22	0.8
1238351	69	JXM2015110406	2015-11-23	0.9
2282004	69	JXM2016050601	2016-05-04	0.8
986858	69	JXM2016060308	2016-06-02	0.7
1079466	69	JXM2016060308	2016-06-02	0.6
1262332	69	JXM2016060308	2016-06-02	0.7
2280558	69	JXM2016060308	2016-06-02	0.9
1016034	69	JXM2016060309	2016-06-02	0.9
1079467	69	JXM2016060309	2016-06-02	0.7
962116	69	JXM2016100504	2016-10-14	0.8
934598	69	JXM2017030202	2017-03-16	0.9
1322343	69	JXM2017030202	2017-03-16	0.7
2264002	69	JXM2017030202	2017-03-16	0.8
1022776	69	JXM2017050303	2017-05-01	0.8
1037545	69	JXM2017050303	2017-05-01	0.9
1077769	69	JXM2017050303	2017-05-01	0.7
1259836	69	JXM2017050303	2017-05-01	0.5
2264729	69	JXM2017090201	2017-09-07	0.8
996140	69	JXM2017090407	2017-09-21	0.7
776511	69	JXM2017090508	2017-09-06	0.9
780200	69	JXM2017090508	2017-09-06	0.5
818513	69	JXM2017090508	2017-09-06	0.6
838112	69	JXM2017090508	2017-09-06	0.7
2283321	69	JXM2017090508	2017-09-06	0.8
790818	69	JXM2017090509	2017-09-06	0.8
874991	69	JXM2017090509	2017-09-06	0.5
939875	69	JXM2017090509	2017-09-06	0.9
960179	69	JXM2017110409	2017-11-20	0.7
974362	69	JXM2017110409	2017-11-20	0.9
1317162	69	JXM2017110409	2017-11-20	0.8
1800595	69	JXM2017120610	2017-12-05	0.7
1854703	69	JXM2017120610	2017-12-05	0.9
2726202	69	JXM2018011201	2018-01-17	0.9
2692624	69	JXM2018020306	2018-02-15	0.9
2695941	69	JXM2018040207	2018-04-24	0.9
2736271	69	JXM2018040207	2018-04-24	0.8
2712889	69	JXM2018040402	2018-04-25	0.8
2773802	69	JXM2018050509	2018-05-14	0.9
2365839	69	JXM2018060309	2018-06-06	0.9
2680985	69	JXM2018060309	2018-06-06	0.5
2681350	69	JXM2018070304	2018-07-05	0.7
2688037	69	JXM2018070304	2018-07-05	0.8
2752476	69	JXM2018070304	2018-07-05	0.9
2689432	69	JXM2018090206	2018-09-10	0.9
2743811	69	JXM2018090206	2018-09-10	0.7
2536003	69	JXM2018100304	2018-10-12	0.8
2749138	69	JXM2018100304	2018-10-12	0.9
1832580	69	JXM2018100305	2018-10-12	0.5
2734388	69	JXM2018100305	2018-10-12	0.6

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2740205	69	JXM2018100305	2018-10-12	0.7
2745873	69	JXM2018100305	2018-10-12	0.8
2975472	69	JXM2018100305	2018-10-12	0.9
2340352	69	JXM2018100502	2018-10-11	0.7
2656668	69	JXM2018100502	2018-10-11	0.8
2869748	69	JXM2018100502	2018-10-11	0.9
1922801	69	JXM2018110407	2018-11-19	0.9
1854038	69	JXM2018120308	2018-12-18	0.9
1833168	69	JXM2019010408	2019-01-09	0.7
1833169	69	JXM2019010408	2019-01-09	0.8
2547249	69	JXM2019010408	2019-01-09	0.9
2750968	69	JXM2019020306	2019-02-07	0.7
2984547	69	JXM2019030402	2019-03-11	0.9
1916292	69	JXM2019050304	2019-05-16	0.9
2429560	69	JXM2019050304	2019-05-16	0.8
2986086	69	JXM2019050304	2019-05-16	0.7
2494643	69	JXM2019050506	2019-05-15	0.8
1909583	69	JXM2019080202	2019-08-08	0.9
2786201	69	JXM2019080301	2019-08-05	0.8
1990740	69	JXM2019110407	2019-11-18	0.8
2457942	69	JXM2019110407	2019-11-18	0.9
2793608	69	JXM2020010304	2020-01-06	0.9
1862319	69	JXM2020100406	2020-10-13	0.9
1921966	69	JXM2020110303	2020-11-20	0.5
2796181	69	JXM2020110303	2020-11-20	0.6
2809776	69	JXM2020110303	2020-11-20	0.8
3052709	69	JXM2020110303	2020-11-20	0.7
1856202	69	JXM2020120306	2020-12-02	0.9
1911094	69	JXM2020120306	2020-12-02	0.8
1865401	69	JXM2021020506	2021-02-10	0.8
2765633	69	JXM2021040403	2021-04-23	0.7
2542418	69	JXM2021050307	2021-05-10	0.9
2551807	69	JXM2021050307	2021-05-10	0.9
2578506	69	JXM2021050307	2021-05-10	0.9
2661511	69	JXM2021060304	2021-06-02	0.9
2556914	69	JXM2021070301	2021-07-13	0.9
2647565	69	JXM2021070303	2021-07-13	0.9
2689901	69	JXM2021070304	2021-07-13	0.9
3051261	69	JXM2021070304	2021-07-13	0.8
2685567	69	JXM2022090406	2022-09-27	0.7
1945513	69	JXM2022090409	2022-09-27	0.9
2678739	69	JXM2022110302	2022-11-17	0.9
2766291	69	JXM2022110302	2022-11-17	0.8
1869229	69	JXM2022110303	2022-11-17	0.8
2649608	69	JXM2022110303	2022-11-17	0.5
2766476	69	JXM2022110303	2022-11-17	0.6
2825025	69	JXM2022110303	2022-11-17	0.9
1853373	69	JXM2022110307	2022-11-17	0.8
1917169	69	JXM2022110307	2022-11-17	0.9
1992634	69	JXM2022110307	2022-11-17	0.7
2678844	69	JXM2022110407	2022-11-21	0.8
2823235	69	JXM2022110407	2022-11-21	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1087405	69	KYM2000080102	2000-08-01	0.9
1249244	69	SAM2014060101	2014-06-19	0.9
962541	69	SAM2016110103	2016-11-15	0.9
2583971	69	SAM2019070209	2019-07-18	0.9
1387677	69	TBM1989052302	1989-05-23	0.9
979910	69	TBM1989092703	1989-09-27	0.9
1026284	69	TBM1989092707	1989-09-27	0.9
1041633	69	TBM1989092707	1989-09-27	0.8
994583	69	TBM1989092708	1989-09-27	0.9
884469	69	TBM1989092709	1989-09-27	0.7
926103	69	TBM1989092709	1989-09-27	0.9
982607	69	TBM1989092709	1989-09-27	0.8
993733	69	TBM1989092709	1989-09-27	0.9
1023944	69	TBM1989101002	1989-10-10	0.8
1086510	69	TBM1989101002	1989-10-10	0.9
1014600	69	TBM1989101008	1989-10-10	0.8
1000763	69	TBM1989101101	1989-10-11	0.9
1427536	69	TBM1989101102	1989-10-11	0.8
1018088	69	TBM1989101104	1989-10-11	0.9
1037800	69	TBM1990042307	1990-04-23	0.9
981635	69	TBM1990060501	1990-06-05	0.8
1035264	69	TBM1990060501	1990-06-05	0.9
1077664	69	TBM1990060501	1990-06-05	0.7
1074973	69	TBM1990060502	1990-06-05	0.6
2309361	69	TBM1990060502	1990-06-05	0.9
955410	69	TBM1990060503	1990-06-05	0.8
970994	69	TBM1990060503	1990-06-05	0.9
1391402	69	TBM1990060503	1990-06-05	0.8
2329506	69	TBM1990060703	1990-06-07	0.9
1046069	69	TBM1990101502	1990-10-15	0.9
1122601	69	TBM1990111310	1990-11-13	0.9
1014802	69	TBM1990120312	1990-12-03	0.8
1461018	69	TBM1990120312	1990-12-03	0.8
1120124	69	TBM1991042908	1991-04-29	0.7
1466682	69	TBM1991042908	1991-04-29	0.8
1933443	69	TBM1991042908	1991-04-29	0.6
1158595	69	TBM1991042913	1991-04-29	0.9
2404109	69	TBM1991042913	1991-04-29	0.7
1556384	69	TBM1991052007	1991-05-20	0.9
1573164	69	TBM1991100701	1991-10-07	0.9
1057855	69	TBM1991100702	1991-10-07	0.9
1221648	69	TBM1991100702	1991-10-07	0.8
1530248	69	TBM1991100702	1991-10-07	0.9
1224990	69	TBM1992102605	1992-10-26	0.9
931880	69	TBM1992102607	1992-10-26	0.9
941139	69	TBM1993051815	1993-05-18	0.8
2360824	69	TBM1993051901	1993-05-19	0.9
1167077	69	TBM1993051926	1993-05-19	0.8
1167078	69	TBM1993051926	1993-05-19	0.9
940101	69	TBM1993060201	1993-06-02	0.9
1105168	69	TBM1993060201	1993-06-02	0.9
1171637	69	TBM1994052305	1994-05-23	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1368730	69	TBM1994052306	1994-05-23	0.9
2356746	69	TBM1994092601	1994-09-26	0.9
1122464	69	TBM1997041718	1997-04-17	0.8
1368995	69	TBM1997041718	1997-04-17	0.9
1656738	69	TBM1997041718	1997-04-17	0.7
1072149	69	TBM1997080714	1997-08-07	0.8
1432720	69	TBM1997080714	1997-08-07	0.5
1478648	69	TBM1997080714	1997-08-07	0.9
1170425	69	TBM1997091217	1997-09-12	0.9
1161874	69	TBM1997100808	1997-10-08	0.9
1657269	69	TBM1998052017	1998-05-20	0.9
1370825	69	TBM1998061804	1998-06-18	0.9
1239631	69	TBM1999061412	1999-06-14	0.7
1860695	69	TBM1999081201	1999-08-12	0.8
1246998	69	TBM1999091405	1999-09-14	0.9
1630798	69	TBM2000041316	2000-04-13	0.9
1870518	69	TBM2000041317	2000-04-13	0.8
1369659	69	TBM2000081004	2000-08-10	0.8
1520268	69	TBM2000081004	2000-08-10	0.6
1683805	69	TBM2000081004	2000-08-10	0.6
1719902	69	TBM2000081004	2000-08-10	0.9
2433364	69	TBM2000081004	2000-08-10	0.5
2477430	69	TBM2001080708	2001-08-07	0.9
971151	69	TBM2001080710	2001-08-07	0.7
1852115	69	TBM2002101802	2002-10-29	0.9
1600046	69	TBM2004050114	2004-05-04	0.9
1225335	69	TBM2004101302	2004-10-15	0.7
1135757	69	TBM2005080703	2005-08-05	0.9
1739427	69	TBM2005080703	2005-08-05	0.8
1434336	69	TBM2006070801	2006-07-03	0.7
1763542	69	TBM2006070801	2006-07-03	0.9
1246837	69	TBM2006070811	2006-07-03	0.9
1487114	69	TBM2006080405	2006-08-01	0.8
1331152	69	TBM2006090113	2006-09-26	0.9
1855407	69	TBM2006100601	2006-10-03	0.8
1239118	69	TBM2008040406	2008-04-14	0.9
1812448	69	TBM2008060405	2008-06-02	0.9
1510612	69	TBM2008060407	2008-06-02	0.9
1445864	69	TBM2008061204	2008-06-10	0.9
1515389	69	TBM2008061204	2008-06-10	0.9
1686559	69	TBM2008070601	2008-07-02	0.8
1471374	69	TBM2008080306	2008-08-13	0.7
1570211	69	TBM2009051009	2009-05-07	0.9
1606278	69	TBM2009080404	2009-08-12	0.9
1258098	69	TBM2009081003	2009-08-19	0.9
2275501	69	TBM2009090905	2009-09-23	0.6
1806043	69	TBM2010060905	2010-06-03	0.9
1980822	69	TBM2010100104	2010-10-04	0.9
1880043	69	TBM2010100503	2010-10-05	0.9
1043722	69	TBM2011051306	2011-05-17	0.7
1132897	69	TBM2011051306	2011-05-17	0.9
1633048	69	TBM2011051306	2011-05-17	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1724174	69	TBM2011051306	2011-05-17	0.9
2280038	69	TBM2011051306	2011-05-17	0.8
1455649	69	TBM2012050901	2012-05-10	0.9
1155496	69	TBM2012071103	2012-07-17	0.9
1256569	69	TBM2012071103	2012-07-17	0.9
1543007	69	TBM2012080802	2012-08-15	0.9
1584286	69	TBM2012091101	2012-09-13	0.9
1596186	69	TBM2012091403	2012-09-19	0.7
1646410	69	TBM2012091403	2012-09-19	0.8
1416346	69	TBM2013090606	2013-09-13	0.9
1685938	69	TBM2013100604	2013-10-07	0.7
1417862	69	TBM2013100611	2013-10-07	0.9
1585214	69	TBM2014070408	2014-07-07	0.8
1517120	69	TBM2015081305	2015-08-20	0.9
1115736	69	TBM2016050202	2016-05-11	0.8
1727437	69	TBM2016050202	2016-05-11	0.6
2425917	69	TBM2016050202	2016-05-11	0.7
1221634	69	TBM2016110209	2016-11-14	0.8
1147715	69	TBM2017070402	2017-07-14	0.8
1824346	69	TBM2017070402	2017-07-14	0.9
2282887	69	TBM2019060312	2019-06-05	0.8
2330301	69	TBM2019071205	2019-07-11	0.8
2382352	69	TBM2019080203	2019-08-02	0.8
2363722	69	TBM2019101503	2019-10-11	0.9
2396336	69	TBM2019110309	2019-11-06	0.9
2219243	69	TBM2020071111	2020-07-06	0.9
1831620	69	TBM2020071202	2020-07-20	0.9
1945973	69	TBM2020090206	2020-09-15	0.8
1933732	69	TBM2022091103	2022-09-08	0.9
2359961	69	WWM2004070103	2004-07-13	0.9

Programs containing flagged data:

69 - Fisheries-Independent Monitoring (FIM) Program

There are no *Low* Quantile Flagged Values for Count

There are no *Low* Quantile Flagged Values for Presence/Absence

High Quantile

Standard Length

Table 8: Flagged Values - High Indicator Quantile: **67.5**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
53125	69	APM1999040801	1999-04-08	69.8
1630931	69	APM2001030202	2001-03-02	69.0
838398	69	APM2004070406	2004-07-07	69.0
64919	69	APM2012070701	2012-07-17	79.0
206449	69	APM2012070701	2012-07-17	74.5
225970	69	APM2012070701	2012-07-17	76.5
356402	69	APM2012070701	2012-07-17	77.0
58117	69	APM2012070702	2012-07-17	84.0
247392	69	APM2012070702	2012-07-17	80.5
2815249	69	APM2012110504	2012-11-06	83.1
2837146	69	APM2013060603	2013-06-07	78.0
279050	69	APM2013070205	2013-07-02	75.2
93088	69	APM2013081104	2013-08-15	80.2
63862	69	APM2013090906	2013-09-17	75.0
339066	69	APM2013101005	2013-10-15	77.8
121916	69	APM2014051101	2014-05-20	84.5
2826707	69	APM2014070103	2014-07-01	100.0
79861	69	APM2014090901	2014-09-17	74.5
576838	69	APM2015070802	2015-07-09	77.5
2852917	69	APM2015090801	2015-09-11	73.5
186317	69	APM2015100601	2015-10-08	83.0
593910	69	APM2015100601	2015-10-08	79.0
426300	69	APM2016060601	2016-06-07	73.5
230836	69	APM2016060903	2016-06-10	82.3
259507	69	APM2016061003	2016-06-13	80.0
210830	69	APM2016080203	2016-08-02	84.0
2875979	69	APM2016080205	2016-08-02	71.0
289696	69	APM2016080506	2016-08-04	82.0
254055	69	APM2017061405	2017-06-26	79.1
229327	69	APM2017081201	2017-08-15	83.5
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1572162	69	APM2019070106	2019-07-02	74.3
1661503	69	APM2019071101	2019-07-16	81.0
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959629	69	CKM1998070904	1998-07-09	82.0
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410139	69	CKM1999072604	1999-07-26	84.0
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488297	69	CKM2000081705	2000-08-17	82.0
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616796	69	CKM2000092501	2000-09-25	83.5
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493298	69	CKM2000092503	2000-09-25	80.0
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1335160	69	CKM2000092503	2000-09-25	84.5
1987492	69	CKM2000092503	2000-09-25	88.0
2474853	69	CKM2000092503	2000-09-25	78.0
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658464	69	CKM2000110703	2000-11-07	75.0
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505629	69	CKM2001050702	2001-05-15	83.0
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333187	69	CKM2001060702	2001-06-13	87.5
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1312278	69	CKM2001071304	2001-07-19	83.8
2505941	69	CKM2001071304	2001-07-19	82.0
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1308272	69	CKM2001090603	2001-09-11	84.0
368049	69	CKM2001090702	2001-09-17	83.5
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404931	69	CKM2001091103	2001-09-25	89.0
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1306596	69	CKM2001091103	2001-09-25	80.0
1306597	69	CKM2001091103	2001-09-25	86.0
1320797	69	CKM2001091103	2001-09-25	82.0
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1633156	69	CKM2001091103	2001-09-25	76.0

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2631568	69	CKM2001091103	2001-09-25	92.0
379031	69	CKM2001091201	2001-09-26	85.0
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1313284	69	CKM2001101201	2001-10-23	79.0
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706134	69	CKM2002060406	2002-06-10	86.2
979356	69	CKM2002060406	2002-06-10	85.2
1382890	69	CKM2002060406	2002-06-10	82.3
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981171	69	CKM2002070305	2002-07-02	75.7
1274984	69	CKM2002070305	2002-07-02	82.0
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485223	69	CKM2002081101	2002-08-21	82.5
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568187	69	CKM2002081105	2002-08-21	67.8
696946	69	CKM2002081105	2002-08-21	81.5
1333978	69	CKM2002081105	2002-08-21	81.0
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1352293	69	CKM2002100106	2002-10-01	74.5
1372391	69	CKM2002100106	2002-10-01	78.0
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921882	69	CKM2002100107	2002-10-01	78.0
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502114	69	CKM2002100301	2002-10-03	85.0
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1403732	69	CKM2003070901	2003-07-08	84.0
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589226	69	CKM2003080602	2003-08-18	91.0
575663	69	CKM2003090507	2003-09-09	82.0
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419617	69	CKM2004020802	2004-02-17	84.8
614745	69	CKM2004020802	2004-02-17	85.7
654534	69	CKM2004020802	2004-02-17	85.0
1891029	69	CKM2004020802	2004-02-17	85.2
1543709	69	CKM2004040706	2004-04-19	71.0
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767624	69	CKM2004050305	2004-05-06	81.0
1190937	69	CKM2004050807	2004-05-18	78.0
442363	69	CKM2004060703	2004-06-16	80.0
467753	69	CKM2004060703	2004-06-16	79.0
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481369	69	CKM2004080401	2004-08-11	79.3
655347	69	CKM2004080401	2004-08-11	74.5
687256	69	CKM2004080401	2004-08-11	86.3
781279	69	CKM2004080401	2004-08-11	84.0
827236	69	CKM2004080401	2004-08-11	82.5
931129	69	CKM2004080401	2004-08-11	82.0
2530841	69	CKM2004080401	2004-08-11	90.5
925696	69	CKM2004080902	2004-08-25	85.5
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1925619	69	CKM2004090303	2004-09-10	84.0
644064	69	CKM2004100105	2004-10-01	78.2
707393	69	CKM2004110402	2004-11-03	78.0
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2527612	69	CKM2005070601	2005-07-14	77.6
742098	69	CKM2005080701	2005-08-17	84.0
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980618	69	CKM2005080701	2005-08-17	83.0
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775586	69	CKM2005080810	2005-08-19	82.0
568332	69	CKM2005080811	2005-08-19	84.5
592202	69	CKM2005080811	2005-08-19	83.5
707552	69	CKM2005080811	2005-08-19	72.3
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1018239	69	CKM2005090703	2005-09-14	75.5
362376	69	CKM2005100206	2005-10-04	81.2
712702	69	CKM2005100206	2005-10-04	83.0
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748724	69	CKM2005100206	2005-10-04	84.5
773631	69	CKM2005100206	2005-10-04	78.0
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963736	69	CKM2005110702	2005-11-08	89.2
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1397444	69	CKM2005120707	2005-12-14	83.3
1047306	69	CKM2006020507	2006-02-10	85.5
394418	69	CKM2006040504	2006-04-12	86.7
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850343	69	CKM2006040504	2006-04-12	84.4
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1062732	69	CKM2006040504	2006-04-12	90.3
2537539	69	CKM2006040504	2006-04-12	85.3
2679828	69	CKM2006040504	2006-04-12	87.0
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2561224	69	CKM2006050301	2006-05-05	89.5
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851345	69	CKM2006060704	2006-06-20	88.3
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1094295	69	CKM2006070806	2006-07-11	87.4
420625	69	CKM2006071003	2006-07-18	69.5
648159	69	CKM2006071003	2006-07-18	82.0
693906	69	CKM2006071003	2006-07-18	87.2
776352	69	CKM2006071003	2006-07-18	80.4
873668	69	CKM2006071003	2006-07-18	69.3
1013290	69	CKM2006071003	2006-07-18	88.3
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1318554	69	CKM2006071003	2006-07-18	79.5
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804801	69	CKM2006080401	2006-08-04	81.2
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1417609	69	CKM2006080401	2006-08-04	80.1

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1116561	69	CKM2006100302	2006-10-04	83.0
2519811	69	CKM2006100302	2006-10-04	84.4
2550872	69	CKM2006100302	2006-10-04	81.8
433163	69	CKM2006100807	2006-10-18	83.6
423186	69	CKM2006110504	2006-11-08	70.3
956497	69	CKM2007010104	2007-01-03	89.2
438756	69	CKM2007030809	2007-03-20	69.8
1850385	69	CKM2007060604	2007-06-08	69.4
1932731	69	CKM2007060804	2007-06-14	81.0
466863	69	CKM2007080204	2007-08-03	74.0
486396	69	CKM2007080204	2007-08-03	84.0
491386	69	CKM2007080204	2007-08-03	81.0
700915	69	CKM2007080204	2007-08-03	94.7
715165	69	CKM2007080204	2007-08-03	83.1
715166	69	CKM2007080204	2007-08-03	86.0
780738	69	CKM2007080204	2007-08-03	79.4
780739	69	CKM2007080204	2007-08-03	88.0
858557	69	CKM2007080204	2007-08-03	82.1
862389	69	CKM2007080204	2007-08-03	85.5
955200	69	CKM2007080204	2007-08-03	87.0
989734	69	CKM2007080204	2007-08-03	79.5
1083536	69	CKM2007080204	2007-08-03	87.3
1099840	69	CKM2007080204	2007-08-03	80.0
1099841	69	CKM2007080204	2007-08-03	85.0
1113676	69	CKM2007080204	2007-08-03	83.0
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1904498	69	CKM2007080204	2007-08-03	84.5
1934869	69	CKM2007080204	2007-08-03	82.5
1989726	69	CKM2007080204	2007-08-03	78.5
2524098	69	CKM2007080204	2007-08-03	76.5
2539239	69	CKM2007080204	2007-08-03	84.2
2550720	69	CKM2007080204	2007-08-03	78.0
2695997	69	CKM2007080204	2007-08-03	82.2
2695998	69	CKM2007080204	2007-08-03	84.6
2563303	69	CKM2007080604	2007-08-10	69.7
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946553	69	CKM2007090304	2007-09-06	82.8
1092151	69	CKM2007090304	2007-09-06	83.0
1793924	69	CKM2007090304	2007-09-06	72.2
870240	69	CKM2007090406	2007-09-10	72.0
2552043	69	CKM2007090406	2007-09-10	74.5
2573506	69	CKM2007090406	2007-09-10	74.0
1129223	69	CKM2007090804	2007-09-24	79.0
2522421	69	CKM2007090905	2007-09-25	87.5
584898	69	CKM2007100306	2007-10-04	91.0
610524	69	CKM2007100306	2007-10-04	86.2
683291	69	CKM2007100306	2007-10-04	93.2

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879781	69	CKM2007100306	2007-10-04	82.0
901878	69	CKM2007100306	2007-10-04	83.0
901879	69	CKM2007100306	2007-10-04	93.9
906915	69	CKM2007100306	2007-10-04	88.0
921824	69	CKM2007100306	2007-10-04	89.0
965430	69	CKM2007100306	2007-10-04	83.3
992216	69	CKM2007100306	2007-10-04	81.5
1107672	69	CKM2007100306	2007-10-04	79.2
1125296	69	CKM2007100306	2007-10-04	93.5
1139065	69	CKM2007100306	2007-10-04	85.0
1139066	69	CKM2007100306	2007-10-04	87.0
1223632	69	CKM2007100306	2007-10-04	80.1
1223633	69	CKM2007100306	2007-10-04	91.5
1249470	69	CKM2007100306	2007-10-04	81.0
1255611	69	CKM2007100306	2007-10-04	86.0
1278803	69	CKM2007100306	2007-10-04	90.2
2522862	69	CKM2007100306	2007-10-04	88.8
2574951	69	CKM2007100306	2007-10-04	84.4
1124385	69	CKM2007100906	2007-10-17	73.0
585385	69	CKM2007110203	2007-11-05	78.8
611037	69	CKM2007110203	2007-11-05	80.1
1049803	69	CKM2007110203	2007-11-05	82.5
991059	69	CKM2007110207	2007-11-05	79.0
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2559289	69	CKM2008010405	2008-01-09	90.0
1013249	69	CKM2008040405	2008-04-03	82.4
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513083	69	CKM2008050510	2008-05-06	79.5
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1012548	69	CKM2008050607	2008-05-07	87.5
1017837	69	CKM2008050607	2008-05-07	84.0
1066612	69	CKM2008050607	2008-05-07	83.5
1069687	69	CKM2008050607	2008-05-07	88.8
1222934	69	CKM2008050607	2008-05-07	91.0
1409673	69	CKM2008050607	2008-05-07	79.1
1578848	69	CKM2008050607	2008-05-07	82.2
2578439	69	CKM2008050607	2008-05-07	79.8
1204506	69	CKM2008060303	2008-06-03	83.5
1095198	69	CKM2008060310	2008-06-03	78.0
1044841	69	CKM2008060503	2008-06-05	76.4
833954	69	CKM2008060507	2008-06-04	80.0
833955	69	CKM2008060507	2008-06-04	82.5
1016468	69	CKM2008060507	2008-06-04	85.2
1020597	69	CKM2008060507	2008-06-04	75.0
1044844	69	CKM2008060507	2008-06-04	74.0

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1352550	69	CKM2008060507	2008-06-04	88.0
995078	69	CKM2008060508	2008-06-05	83.2
1098334	69	CKM2008060508	2008-06-05	84.0
959038	69	CKM2008070209	2008-07-02	86.0
1028549	69	CKM2008070209	2008-07-02	89.5
1148805	69	CKM2008070303	2008-07-03	89.5
2532108	69	CKM2008070303	2008-07-03	82.5
2532109	69	CKM2008070303	2008-07-03	90.0
2562093	69	CKM2008070303	2008-07-03	83.7
1178265	69	CKM2008070304	2008-07-03	73.5
2572642	69	CKM2008070304	2008-07-03	77.0
1169107	69	CKM2008080408	2008-08-05	78.0
1089076	69	CKM2008090102	2008-09-02	79.5
1032571	69	CKM2008100207	2008-10-03	87.6
548830	69	CKM2008100505	2008-10-09	70.0
551526	69	CKM2008100505	2008-10-09	82.9
1049982	69	CKM2008100505	2008-10-09	80.5
1256180	69	CKM2008100505	2008-10-09	73.3
1398090	69	CKM2008100505	2008-10-09	77.0
2547171	69	CKM2008100505	2008-10-09	88.0
2580873	69	CKM2008100505	2008-10-09	77.5
1022865	69	CKM2008100507	2008-10-09	78.4
1025209	69	CKM2008120101	2008-12-03	87.0
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1068324	69	CKM2009040105	2009-04-03	86.0
1125107	69	CKM2009040106	2009-04-03	77.0
794132	69	CKM2009050201	2009-05-04	71.5
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544552	69	CKM2009050409	2009-05-11	71.2
2564652	69	CKM2009050409	2009-05-11	77.5
1089643	69	CKM2009060405	2009-06-08	82.5
1091212	69	CKM2009060405	2009-06-08	84.8
1192793	69	CKM2009060405	2009-06-08	83.0
812131	69	CKM2009060706	2009-06-15	78.7
1054741	69	CKM2009060706	2009-06-15	83.4
566714	69	CKM2009060707	2009-06-15	82.9
581255	69	CKM2009060707	2009-06-15	85.1
1033953	69	CKM2009070106	2009-07-02	80.6
1067434	69	CKM2009070106	2009-07-02	76.0
1434052	69	CKM2009070106	2009-07-02	83.7
568482	69	CKM2009070608	2009-07-15	81.3
887140	69	CKM2009070608	2009-07-15	80.4
2719265	69	CKM2009070608	2009-07-15	85.3
1301185	69	CKM2009080108	2009-08-03	68.6
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1050412	69	CKM2009080110	2009-08-03	80.5

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894709	69	CKM2009080301	2009-08-05	77.5
588213	69	CKM2009080311	2009-08-05	75.7
1108764	69	CKM2009080311	2009-08-05	76.8
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870974	69	CKM2009090103	2009-09-01	73.0
1100370	69	CKM2009090103	2009-09-01	72.4
1100371	69	CKM2009090103	2009-09-01	78.0
1197985	69	CKM2009090103	2009-09-01	73.2
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1722666	69	CKM2009090103	2009-09-01	71.0
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2550304	69	CKM2009090103	2009-09-01	71.5
2586959	69	CKM2009090103	2009-09-01	80.3
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1836146	69	CKM2009090608	2009-09-16	75.4
1343101	69	CKM2009100704	2009-10-15	82.0
1925395	69	CKM2009120104	2009-12-01	75.8
598324	69	CKM2010040402	2010-04-06	86.0
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604140	69	CKM2010050409	2010-05-11	88.0
1120848	69	CKM2010050409	2010-05-11	80.0
2544100	69	CKM2010050409	2010-05-11	89.5
592091	69	CKM2010050509	2010-05-12	86.0
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1253375	69	CKM2010080804	2010-08-25	81.5
1468739	69	CKM2010080804	2010-08-25	78.0
2592443	69	CKM2010080808	2010-08-25	80.6
1121616	69	CKM2010100204	2010-10-04	78.5
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1261358	69	CKM2010100504	2010-10-14	81.5
634074	69	CKM2011040407	2011-04-11	75.5
697504	69	CKM2011040407	2011-04-11	69.0
798997	69	CKM2011040407	2011-04-11	74.3
937757	69	CKM2011040407	2011-04-11	72.0
937758	69	CKM2011040407	2011-04-11	83.0
990169	69	CKM2011040407	2011-04-11	78.5
1163232	69	CKM2011040407	2011-04-11	76.5
1163263	69	CKM2011040407	2011-04-11	83.7
1175611	69	CKM2011040407	2011-04-11	79.0
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1247285	69	CKM2011040407	2011-04-11	76.0
1318478	69	CKM2011040407	2011-04-11	74.5
1318479	69	CKM2011040407	2011-04-11	77.0
1418360	69	CKM2011040407	2011-04-11	77.5

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1621938	69	CKM2011040407	2011-04-11	78.0
2594811	69	CKM2011040407	2011-04-11	75.0
1402727	69	CKM2011050108	2011-05-02	78.1
2574755	69	CKM2011050502	2011-05-09	81.1
636080	69	CKM2011060204	2011-06-02	81.2
648692	69	CKM2011060204	2011-06-02	83.3
961223	69	CKM2011060204	2011-06-02	79.5
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1254134	69	CKM2011060204	2011-06-02	77.9
1849564	69	CKM2011060204	2011-06-02	68.8
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1268397	69	CKM2011080302	2011-08-10	69.9
1273969	69	CKM2011080307	2011-08-10	78.0
1194782	69	CKM2011090202	2011-09-07	79.6
1201489	69	CKM2011090202	2011-09-07	82.1
2562604	69	CKM2011090202	2011-09-07	88.5
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1470965	69	CKM2012040706	2012-04-17	75.7
1806719	69	CKM2012040706	2012-04-17	83.0
2584486	69	CKM2012050107	2012-05-01	72.5
1130399	69	CKM2012050306	2012-05-03	89.3
1287834	69	CKM2012050306	2012-05-03	78.1
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378237	69	CKM2013040508	2013-04-08	89.9
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467100	69	CKM2014060602	2014-06-05	77.5
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661801	69	CKM2017060308	2017-06-08	70.9
545700	69	CKM2017060702	2017-06-19	75.9
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458787	69	CKM2017070303	2017-07-07	80.0
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476043	69	CKM2017070303	2017-07-07	79.5
532685	69	CKM2017070303	2017-07-07	72.8
536486	69	CKM2017070303	2017-07-07	74.0
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1697054	69	CKM2018050901	2018-05-10	79.8
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1873084	69	CKM2018050901	2018-05-10	71.5
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2713931	69	CKM2020050702	2020-05-26	74.6
1921486	69	CKM2020060601	2020-06-18	74.0
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1703588	69	CKM2020060701	2020-06-25	70.4
1725780	69	CKM2020060701	2020-06-25	74.8
1725785	69	CKM2020060701	2020-06-25	75.4
1792826	69	CKM2020060701	2020-06-25	71.9

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1708645	69	CKM2020070304	2020-07-02	77.8
1975843	69	CKM2020070304	2020-07-02	74.4
1990449	69	CKM2020070304	2020-07-02	73.3
1704051	69	CKM2020080307	2020-08-06	72.6
1717859	69	CKM2020080307	2020-08-06	71.5
1723369	69	CKM2020080307	2020-08-06	76.0
1807960	69	CKM2020080307	2020-08-06	68.7
1807961	69	CKM2020080307	2020-08-06	71.2
1834298	69	CKM2020080307	2020-08-06	68.8
1851132	69	CKM2020080307	2020-08-06	70.1
1851133	69	CKM2020080307	2020-08-06	75.8
1861251	69	CKM2020080307	2020-08-06	75.4
1908963	69	CKM2020080307	2020-08-06	74.6
1929112	69	CKM2020080307	2020-08-06	69.5
1973641	69	CKM2020080307	2020-08-06	73.4
1993421	69	CKM2020080307	2020-08-06	70.6
2930463	69	CKM2020080307	2020-08-06	71.3
1704053	69	CKM2020080403	2020-08-07	69.5
1711964	69	CKM2020080403	2020-08-07	78.5
1711965	69	CKM2020080403	2020-08-07	80.0
1766951	69	CKM2020080403	2020-08-07	77.9
1804740	69	CKM2020080403	2020-08-07	75.4
1819894	69	CKM2020080403	2020-08-07	76.5
1838673	69	CKM2020080403	2020-08-07	76.3
1860809	69	CKM2020080403	2020-08-07	72.8
2699314	69	CKM2020080403	2020-08-07	78.7
1718815	69	CKM2020080404	2020-08-07	71.0
1787425	69	CKM2020080404	2020-08-07	75.8
1874167	69	CKM2020080404	2020-08-07	74.0
1984713	69	CKM2020080404	2020-08-07	72.0
1993438	69	CKM2020080404	2020-08-07	75.0
1949148	69	CKM2020080803	2020-08-19	71.2
1723522	69	CKM2020090102	2020-09-01	72.2
1790983	69	CKM2020090102	2020-09-01	68.6
1714777	69	CKM2020090401	2020-09-18	69.3
1723525	69	CKM2020090401	2020-09-18	75.2
1729541	69	CKM2020090401	2020-09-18	68.4
1779865	69	CKM2020090401	2020-09-18	71.5
1821306	69	CKM2020090401	2020-09-18	73.5
1834611	69	CKM2020090401	2020-09-18	76.8
1842673	69	CKM2020090401	2020-09-18	71.8
1855204	69	CKM2020090401	2020-09-18	72.5
1874854	69	CKM2020090401	2020-09-18	70.2
1715612	69	CKM2020090603	2020-09-25	80.5
1789008	69	CKM2020090603	2020-09-25	75.0
1985176	69	CKM2020100704	2020-10-15	75.0
1744132	69	CKM2020100705	2020-10-15	75.5

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1795306	69	CKM2020110308	2020-11-05	71.5
2292188	69	CKM2021030405	2021-03-10	69.5
2632137	69	CKM2021030405	2021-03-10	68.9
2655464	69	CKM2021040205	2021-04-06	78.0
2729865	69	CKM2021040407	2021-04-12	71.8
2296260	69	CKM2021040505	2021-04-13	78.2
2365587	69	CKM2021040505	2021-04-13	77.3
2719428	69	CKM2021040505	2021-04-13	70.9
2720656	69	CKM2021040505	2021-04-13	71.8
2725042	69	CKM2021040505	2021-04-13	74.8
2730542	69	CKM2021040505	2021-04-13	76.0
2751332	69	CKM2021040505	2021-04-13	69.2
2707385	69	CKM2021050205	2021-05-05	71.4
2773899	69	CKM2021050205	2021-05-05	68.7
2777927	69	CKM2021050205	2021-05-05	72.8
2304369	69	CKM2021050305	2021-05-06	72.8
2309238	69	CKM2021050305	2021-05-06	69.3
2640739	69	CKM2021050305	2021-05-06	72.5
2659067	69	CKM2021050305	2021-05-06	69.7
2659068	69	CKM2021050305	2021-05-06	72.0
2717899	69	CKM2021050305	2021-05-06	73.8
2717900	69	CKM2021050305	2021-05-06	74.0
2752125	69	CKM2021050305	2021-05-06	71.8
3009988	69	CKM2021050305	2021-05-06	69.4
2730042	69	CKM2021050502	2021-05-11	74.6
2302846	69	CKM2021050603	2021-05-12	77.2
2655130	69	CKM2021050603	2021-05-12	75.7
2665727	69	CKM2021050603	2021-05-12	74.5
2726691	69	CKM2021050703	2021-05-17	72.8
2325850	69	CKM2021050704	2021-05-17	69.5
2821209	69	CKM2021050704	2021-05-17	74.0
2663764	69	CKM2021060303	2021-06-04	71.5
2700563	69	CKM2021060303	2021-06-04	72.5
2375513	69	CKM2021060304	2021-06-04	71.4
2668240	69	CKM2021060304	2021-06-04	71.2
2693853	69	CKM2021060304	2021-06-04	70.4
2704677	69	CKM2021060304	2021-06-04	69.0
2722034	69	CKM2021060304	2021-06-04	73.6
2724405	69	CKM2021060304	2021-06-04	67.9
2733280	69	CKM2021060304	2021-06-04	71.0
2787394	69	CKM2021060304	2021-06-04	69.4
2756411	69	CKM2021060305	2021-06-04	72.4
2831876	69	CKM2021060305	2021-06-04	73.6
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2645270	69	CKM2021060407	2021-06-09	72.5
2660064	69	CKM2021060407	2021-06-09	72.0
2660065	69	CKM2021060407	2021-06-09	72.8
2787485	69	CKM2021060407	2021-06-09	74.1
2809189	69	CKM2021060407	2021-06-09	70.5
2604572	69	CKM2021060504	2021-06-10	73.8
2802873	69	CKM2021060504	2021-06-10	69.2
2831969	69	CKM2021060504	2021-06-10	71.3

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2633024	69	CKM2021070201	2021-07-02	68.1
2756788	69	CKM2021070201	2021-07-02	71.3
2810309	69	CKM2021070201	2021-07-02	76.0
2295724	69	CKM2021070203	2021-07-02	71.2
2585503	69	CKM2021070203	2021-07-02	79.2
2627771	69	CKM2021070203	2021-07-02	72.3
2792688	69	CKM2021070203	2021-07-02	70.2
2803150	69	CKM2021070203	2021-07-02	75.2
2809275	69	CKM2021070304	2021-07-12	72.2
2322013	69	CKM2021070406	2021-07-13	70.0
2803602	69	CKM2021070406	2021-07-13	75.6
2730965	69	CKM2021070501	2021-07-01	69.5
2810660	69	CKM2021080208	2021-08-09	76.5
2758934	69	CKM2021080502	2021-08-19	76.0
2634759	69	CKM2021080602	2021-08-23	81.0
2810743	69	CKM2021090102	2021-09-01	75.3
2327871	69	CKM2021090104	2021-09-01	71.0
2630819	69	CKM2021090104	2021-09-01	74.5
2645470	69	CKM2021090104	2021-09-01	74.0
2645471	69	CKM2021090104	2021-09-01	78.0
2775095	69	CKM2021090104	2021-09-01	76.0
2789715	69	CKM2021090104	2021-09-01	73.0
2920376	69	CKM2021090104	2021-09-01	69.5
2328029	69	CKM2021090303	2021-09-07	76.0
2706908	69	CKM2021090303	2021-09-07	71.0
2315744	69	CKM2021090305	2021-09-07	71.5
2706910	69	CKM2021090305	2021-09-07	76.2
2664926	69	CKM2021100106	2021-10-01	73.7
2739793	69	CKM2021100304	2021-10-05	69.8
2703666	69	CKM2021100808	2021-10-03	75.5
2775785	69	CKM2022020508	2022-02-15	84.9
2360699	69	CKM2022030408	2022-03-04	73.7
2737628	69	CKM2022040105	2022-04-01	80.2
2939368	69	CKM2022050204	2022-05-03	73.2
2811915	69	CKM2022050401	2022-05-05	80.3
2954577	69	CKM2022050401	2022-05-05	69.5
2610307	69	CKM2022050407	2022-05-05	71.7
2619310	69	CKM2022050407	2022-05-05	70.5
2659524	69	CKM2022050407	2022-05-05	73.0
2733021	69	CKM2022050407	2022-05-05	72.8
2738484	69	CKM2022050407	2022-05-05	69.5
2777737	69	CKM2022050407	2022-05-05	72.0
2940010	69	CKM2022050407	2022-05-05	71.0
3018760	69	CKM2022050407	2022-05-05	78.0
2747450	69	CKM2022060109	2022-06-01	71.1
2592847	69	CKM2022060201	2022-06-01	69.6
2592848	69	CKM2022060201	2022-06-01	73.2
2651408	69	CKM2022060201	2022-06-01	72.7
2726618	69	CKM2022060201	2022-06-01	72.6
2347469	69	CKM2022060205	2022-06-01	75.6
2592941	69	CKM2022060205	2022-06-01	77.0
2685421	69	CKM2022060205	2022-06-01	76.5

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2694642	69	CKM2022060205	2022-06-01	75.0
2748956	69	CKM2022060205	2022-06-01	71.0
2748957	69	CKM2022060205	2022-06-01	74.4
2758635	69	CKM2022060205	2022-06-01	75.2
2777395	69	CKM2022060205	2022-06-01	74.1
2796459	69	CKM2022060205	2022-06-01	70.2
2439439	69	CKM2022070201	2022-07-05	72.7
3020067	69	CKM2022070201	2022-07-05	69.5
2630230	69	CKM2022070602	2022-07-08	76.3
2352925	69	CKM2022080105	2022-08-08	72.2
2379799	69	CKM2022080105	2022-08-08	72.3
2638971	69	CKM2022080105	2022-08-08	73.0
2651898	69	CKM2022080105	2022-08-08	72.6
2660614	69	CKM2022080105	2022-08-08	75.0
2681969	69	CKM2022080105	2022-08-08	71.5
2715026	69	CKM2022080105	2022-08-08	72.5
2715027	69	CKM2022080105	2022-08-08	74.6
2728625	69	CKM2022080105	2022-08-08	70.6
2728626	69	CKM2022080105	2022-08-08	74.5
2741652	69	CKM2022080105	2022-08-08	76.0
2751147	69	CKM2022080105	2022-08-08	69.5
2759771	69	CKM2022080105	2022-08-08	75.5
2783430	69	CKM2022080105	2022-08-08	69.0
2798006	69	CKM2022080105	2022-08-08	72.0
2798007	69	CKM2022080105	2022-08-08	73.4
2799875	69	CKM2022080105	2022-08-08	78.0
2809127	69	CKM2022080105	2022-08-08	77.0
2813715	69	CKM2022080105	2022-08-08	69.9
2813746	69	CKM2022080105	2022-08-08	70.5
2689555	69	CKM2022080507	2022-08-15	77.3
2387499	69	CKM2022090704	2022-09-22	79.4
2652372	69	CKM2022090704	2022-09-22	78.1
2685192	69	CKM2022090704	2022-09-22	79.9
2750814	69	CKM2022090704	2022-09-22	78.0
2804044	69	CKM2022090704	2022-09-22	73.2
2797232	69	CKM2022100107	2022-10-03	68.5
2409669	69	CKM2022100303	2022-10-05	77.6
2812684	69	CKM2022100303	2022-10-05	68.2
2422303	69	CKM2022100504	2022-10-10	78.0
2760180	69	CKM2022100504	2022-10-10	77.5
867898	69	IRM1999011401	1999-01-14	92.1
635264	69	IRM1999102701	1999-10-27	82.1
885911	69	IRM1999102701	1999-10-27	83.3
426022	69	IRM1999102703	1999-10-27	71.1
482377	69	IRM2000100901	2000-10-09	103.5
539680	69	IRM2000100901	2000-10-09	88.5
960276	69	IRM2000100901	2000-10-09	76.0
591714	69	IRM2002050504	2002-05-08	71.4
722062	69	IRM2002080901	2002-08-22	68.2
563190	69	IRM2003071201	2003-07-21	78.3
411135	69	IRM2004020604	2004-02-10	92.4
758220	69	IRM2004020604	2004-02-10	91.1

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
758221	69	IRM2004020604	2004-02-10	96.5
713949	69	IRM2010090102	2010-09-01	94.7
2765465	69	IRM2014021007	2014-02-17	68.6
1846111	69	IRM2015101304	2015-10-21	68.4
1065309	69	IRM2016010905	2016-01-14	68.7
2328529	69	IRM2018090601	2018-09-11	81.5
2277549	69	IRM2019010703	2019-01-18	69.8
2321443	69	IRM2019010703	2019-01-18	70.8
2368488	69	IRM2019050704	2019-05-13	74.3
2397512	69	IRM2020030102	2020-03-02	71.8
2605844	69	IRM2022010603	2022-01-12	72.8
2772435	69	IRM2022010603	2022-01-12	70.6
2762559	69	IRM2022070303	2022-07-07	69.5
808295	69	JXM2001051201	2001-05-30	81.8
985132	69	JXM2011040501	2011-04-04	70.4
1552052	69	TBM1997111215	1997-11-12	68.8
1670024	69	TBM1998082002	1998-08-20	71.5
1734508	69	TBM1999021509	1999-02-15	69.0
1754895	69	TBM1999072303	1999-07-23	68.6
988768	69	TBM2002030907	2002-03-08	68.0
1092759	69	TBM2003031102	2003-03-13	69.0
1182657	69	TBM2003031102	2003-03-13	69.1
1182658	69	TBM2003031102	2003-03-13	72.0
1337924	69	TBM2003031102	2003-03-13	69.2
1406374	69	TBM2003031102	2003-03-13	68.0
1558690	69	TBM2003031102	2003-03-13	71.0
1619691	69	TBM2008021103	2008-02-26	71.5
2566545	69	TBM2008021107	2008-02-26	68.1
1397930	69	TBM2008091102	2008-09-08	72.1
1712447	69	TBM2014111002	2014-11-13	71.5
1119100	69	TBM2016050703	2016-05-02	69.1
1127882	69	TBM2016050703	2016-05-02	70.2
1655342	69	TBM2016050703	2016-05-02	69.6
2417539	69	TBM2016050703	2016-05-02	68.3
1513563	69	TBM2016070907	2016-07-20	67.9
1591635	69	TBM2016081401	2016-08-24	71.5
2629516	69	TBM2019070905	2019-07-11	70.3
2660931	69	TBM2022050402	2022-05-04	68.2
1881899	69	TBM2022060202	2022-06-06	76.1
1933140	69	TBM2022060203	2022-06-06	70.8
2729221	69	TBM2022110605	2022-11-07	76.4
1302622	69	TQM1997052003	1997-05-20	68.0
1639890	69	TQM1997052003	1997-05-20	74.0
1978793	69	TQM1997052003	1997-05-20	73.3
2475011	69	TQM1997081902	1997-08-19	84.0
1502334	69	TQM1997122304	1997-12-23	68.5
1208934	69	TQM1998032301	1998-03-23	68.5
2563772	69	TQM1998042011	1998-04-20	68.2
1374084	69	TQM1998051302	1998-05-13	74.5
1412335	69	TQM1998102002	1998-10-20	79.8
1424148	69	TQM1999051102	1999-05-11	86.5
1680335	69	TQM1999051102	1999-05-11	75.7

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1293298	69	TQM1999051104	1999-05-11	78.0
1584508	69	TQM1999071502	1999-07-15	109.6
1700108	69	TQM1999101904	1999-10-19	70.5
1695284	69	TQM2000052304	2000-05-23	73.7
1892932	69	TQM2000101804	2000-10-18	75.1
1307908	69	TQM2001030104	2001-03-01	73.4
1592717	69	TQM2001030104	2001-03-01	68.5
1696984	69	TQM2001100303	2001-10-16	72.1
1182056	69	TQM2001120203	2001-12-13	68.8
1978113	69	TQM2002030205	2002-03-07	70.2
1118283	69	TQM2002050303	2002-05-14	78.0
1819353	69	TQM2002060206	2002-06-11	78.4
1458645	69	TQM2002070401	2002-07-30	77.5
1680386	69	TQM2003030204	2003-03-18	80.5
1584853	69	TQM2003090204	2003-09-10	72.8
2454042	69	TQM2003090204	2003-09-10	71.5
1443243	69	TQM2004040104	2004-04-06	76.9
1635085	69	TQM2004060402	2004-06-22	90.0
1441745	69	TQM2005010205	2005-01-11	73.5
1243538	69	TQM2005030305	2005-03-16	68.5
1288446	69	TQM2006110402	2006-11-28	69.0
1307661	69	TQM2006110402	2006-11-28	73.0
1543106	69	TQM2006110402	2006-11-28	73.5
1543107	69	TQM2006110402	2006-11-28	74.0
1560083	69	TQM2006110402	2006-11-28	67.8
2514411	69	TQM2007030402	2007-03-27	74.5
1309141	69	TQM2007050303	2007-05-14	87.8
1188588	69	TQM2008110204	2008-11-05	87.0
1552865	69	TQM2008110204	2008-11-05	74.0
1598944	69	TQM2008110204	2008-11-05	86.0
1333558	69	TQM2012050101	2012-05-03	109.0
1467102	69	TQM2015050101	2015-05-06	68.5
1992917	69	TQM2015050101	2015-05-06	70.2
1888359	69	TQM2016120403	2016-12-09	81.4
1676878	69	TQM2017040301	2017-04-11	69.8
2484332	69	TQM2018020603	2018-02-15	68.9
2502390	69	TQM2019040302	2019-04-05	68.3
2278502	69	TQM2020100403	2020-10-14	70.4
2324582	69	TQM2020100403	2020-10-14	70.0
2693625	69	TQM2021020703	2021-02-24	78.8
2666681	69	TQM2021040404	2021-04-14	74.4
2782825	69	TQM2021070302	2021-07-07	68.5
1995623	69	TQM2021070503	2021-07-12	73.5
2493859	69	TQM2021080501	2021-08-16	91.0
2784264	69	TQM2021080501	2021-08-16	92.5
1894670	69	TQM2021100104	2021-10-04	92.6
1996407	69	TQM2022020303	2022-02-08	69.9
2750638	69	TQM2022060303	2022-06-07	71.0
2822020	69	TQM2022100104	2022-10-06	93.5

Programs containing flagged data:

69 - Fisheries-Independent Monitoring (FIM) Program

Count

Table 9: Flagged Values - High Indicator Quantile: **1041.818**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2323371	69	TBM1997061607	1997-06-16	1115
2861509	69	TBM1997091508	1997-09-15	1270
2403471	69	TBM1999100402	1999-10-04	1289
2408967	69	TBM1999110404	1999-11-04	1491
2407549	69	TBM1999110406	1999-11-04	1520
1881383	69	TBM2001010705	2001-01-26	1180
1996005	69	TBM2001020713	2001-02-05	1671
1932674	69	TBM2001021001	2001-02-12	1232
2459294	69	TBM2001120203	2001-12-04	1120
2487468	69	TBM2002080502	2002-08-05	1647
1864499	69	TBM2002081204	2002-08-15	1536
2445341	69	TBM2002101604	2002-10-23	1132
2817033	69	TBM2003021002	2003-02-14	1382
2485265	69	TBM2003021611	2003-02-19	6128
2832185	69	TBM2003080201	2003-08-04	1501
2808907	69	TBM2004100204	2004-10-01	2585
2815964	69	TBM2005060803	2005-06-07	1115
2467189	69	TBM2006040307	2006-04-18	1076
2525330	69	TBM2006100502	2006-10-02	1224
2508831	69	TBM2006111002	2006-11-09	4597
3089056	69	TBM2006111005	2006-11-09	1072
2839774	69	TBM2007061006	2007-06-19	1367
2536014	69	TBM2007110605	2007-11-06	1843
2585200	69	TBM2007110904	2007-11-08	1572
3107548	69	TBM2008011202	2008-01-10	3882
2259951	69	TBM2008040201	2008-04-14	1085
2569795	69	TBM2008040406	2008-04-14	2532
2529937	69	TBM2008050606	2008-05-08	2236
2511309	69	TBM2008050608	2008-05-08	1370
2513850	69	TBM2008051505	2008-05-16	1367
2584144	69	TBM2008061105	2008-06-05	2432
2491231	69	TBM2008071206	2008-07-24	1520
2222405	69	TBM2008080102	2008-08-11	1127
2467043	69	TBM2008080802	2008-08-20	1621
2531670	69	TBM2008081305	2008-08-26	2051
2549362	69	TBM2008090505	2008-09-04	1125
2471460	69	TBM2008101105	2008-10-13	1096
2552470	69	TBM2008110602	2008-11-05	1486
2609219	69	TBM2008110803	2008-11-17	1370
2824574	69	TBM2008111101	2008-11-19	1169
2228473	69	TBM2008111104	2008-11-19	1775
2268003	69	TBM2008120803	2008-12-05	2181
2516729	69	TBM2008121503	2008-12-18	1270
2777491	69	TBM2009011001	2009-01-26	1688
2243909	69	TBM2009051005	2009-05-07	2457
2580498	69	TBM2009051009	2009-05-07	1402
2847888	69	TBM2009051209	2009-05-12	1887
3124047	69	TBM2009071110	2009-07-07	1287
2240058	69	TBM2009081006	2009-08-19	1493

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2240755	69	TBM2009081501	2009-08-24	1207
2870790	69	TBM2009091301	2009-09-17	1567
2796657	69	TBM2009100601	2009-10-06	2562
2643498	69	TBM2009110301	2009-11-05	1051
2263902	69	TBM2009111405	2009-11-18	2046
2646632	69	TBM2010040501	2010-04-05	1355
2635543	69	TBM2010051302	2010-05-19	1140
2604990	69	TBM2010051304	2010-05-19	2816
2625926	69	TBM2010051308	2010-05-19	2327
2372606	69	TBM2010060904	2010-06-03	1052
2660714	69	TBM2010060905	2010-06-03	1210
2629757	69	TBM2010060909	2010-06-03	1635
2606262	69	TBM2010070205	2010-07-01	1689
3116318	69	TBM2010070405	2010-07-08	2465
2530214	69	TBM2010070406	2010-07-08	1352
2849525	69	TBM2010070505	2010-07-09	1048
2829725	69	TBM2010091103	2010-09-14	1042
2655955	69	TBM2010091301	2010-09-16	1102
2278625	69	TBM2010091403	2010-09-20	2865
2614418	69	TBM2010091404	2010-09-20	1629
2338396	69	TBM2010100805	2010-10-07	1897
2829392	69	TBM2010100901	2010-10-14	1293
2287265	69	TBM2010100902	2010-10-14	1108
2323580	69	TBM2010101205	2010-10-15	1255
2616126	69	TBM2010101205	2010-10-15	1332
2588499	69	TBM2011030401	2011-03-02	1046
2830818	69	TBM2011051407	2011-05-18	1620
2511727	69	TBM2011060603	2011-06-27	1407
2311538	69	TBM2011070407	2011-07-11	1212
2890638	69	TBM2011090301	2011-09-14	1415
2730902	69	TBM2011100603	2011-10-03	1111
2883636	69	TBM2011100605	2011-10-03	1185
2870036	69	TBM2011110605	2011-11-02	1874
2307878	69	TBM2012010203	2012-01-04	2633
2884584	69	TBM2012010203	2012-01-04	1576
2664668	69	TBM2012050910	2012-05-10	1055
2716095	69	TBM2012081103	2012-08-09	1449
2581033	69	TBM2012100304	2012-10-22	1338
2713250	69	TBM2012100304	2012-10-22	2416
2743471	69	TBM2013050702	2013-05-21	2195
2430900	69	TBM2013060701	2013-06-11	1841
2688779	69	TBM2013060705	2013-06-11	1541
2381085	69	TBM2013060707	2013-06-11	1364
2889160	69	TBM2013070208	2013-07-03	2110
2695692	69	TBM2013071001	2013-07-16	1141
2584134	69	TBM2013080404	2013-08-13	1773
3109056	69	TBM2013091302	2013-09-23	2114
2895020	69	TBM2013110103	2013-11-04	2734
2760662	69	TBM2013110104	2013-11-04	1173
2726424	69	TBM2014050206	2014-05-06	1215
2428445	69	TBM2014050208	2014-05-06	1749
1865290	69	TBM2014070408	2014-07-07	2530

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2692203	69	TBM2014080106	2014-08-06	1596
2522926	69	TBM2014080601	2014-08-07	1109
2730077	69	TBM2014081110	2014-08-14	1319
2619816	69	TBM2014100904	2014-10-06	1463
2683621	69	TBM2014100906	2014-10-06	1695
1877722	69	TBM2014101302	2014-10-14	1324
2690225	69	TBM2014110404	2014-11-12	3094
2714769	69	TBM2014110901	2014-11-06	1334
1933899	69	TBM2014111002	2014-11-13	1713
1932629	69	TBM2015071501	2015-07-09	2546
2763547	69	TBM2015090704	2015-09-03	1064
2849258	69	TBM2015090704	2015-09-03	1405
2961426	69	TBM2015090704	2015-09-03	2509
2936847	69	TBM2015101008	2015-10-13	1182
3115564	69	TBM2015101306	2015-10-26	1169
2437166	69	TBM2015110804	2015-11-02	1414
2691110	69	TBM2015110805	2015-11-02	1050
2750586	69	TBM2015110805	2015-11-02	1235
2691112	69	TBM2015110901	2015-11-12	2013
1936246	69	TBM2015111205	2015-11-03	1107
2882887	69	TBM2016010204	2016-01-11	1258
2639880	69	TBM2016071101	2016-07-07	1473
2657922	69	TBM2016071101	2016-07-07	1151
2798178	69	TBM2016091807	2016-09-08	1623
2457918	69	TBM2016101401	2016-10-13	1129
1961762	69	TBM2016101406	2016-10-13	1594
2878752	69	TBM2017020302	2017-02-13	1147
2199530	69	TBM2017090906	2017-09-27	1121
2739366	69	TBM2017100502	2017-10-16	1626
2471269	69	TBM2017100804	2017-10-10	2535
2413911	69	TBM2017100805	2017-10-10	1223
2450073	69	TBM2017101504	2017-10-06	1204
2779843	69	TBM2017111101	2017-11-06	1280
2753541	69	TBM2018080106	2018-08-13	1070
2854686	69	TBM2018090803	2018-09-14	1265
2774070	69	TBM2018090905	2018-09-10	1793
2877471	69	TBM2018111201	2018-11-01	1289
2560457	69	TBM2019060106	2019-06-03	1628
2498560	69	TBM2019061203	2019-06-17	1816
2567270	69	TBM2019070303	2019-07-01	1375
2760482	69	TBM2019070304	2019-07-01	1102
2832405	69	TBM2019070705	2019-07-08	1065
2903987	69	TBM2019071503	2019-07-09	2024
2571559	69	TBM2019071504	2019-07-09	1729
2547389	69	TBM2019080306	2019-08-05	2215
2859567	69	TBM2019090402	2019-09-24	1755
2460623	69	TBM2019090501	2019-09-16	1923
2780889	69	TBM2019101103	2019-10-15	1183
2804878	69	TBM2019101105	2019-10-15	1757
3008051	69	TBM2019111303	2019-11-14	1052
2786145	69	TBM2019111304	2019-11-14	1084
2794837	69	TBM2019111306	2019-11-14	1759

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2749526	69	TBM2020020406	2020-02-10	1277
2635063	69	TBM2020080105	2020-08-03	1465
2577468	69	TBM2020081206	2020-08-13	3017
3064097	69	TBM2020081207	2020-08-13	1767
2809264	69	TBM2020090902	2020-09-03	1308
2800588	69	TBM2021020703	2021-02-09	1391
2801131	69	TBM2021060902	2021-06-04	1147
2784840	69	TBM2021070703	2021-07-02	2034
2586231	69	TBM2022090903	2022-09-02	1851
2793061	69	TBM2022090904	2022-09-02	1862
2586899	69	TBM2022101103	2022-10-10	1257
2012713	129	1	2001-02-20	1240
2014061	129	1	2003-02-18	1362
2018114	129	1	2003-02-18	1218
2014371	129	1	2003-03-18	1320
2016402	129	1	2003-03-18	1152
2265569	129	1	2010-01-20	1068
2283766	129	1	2010-01-20	1351
2266105	129	1	2010-03-17	1303
2081245	129	1	2011-02-17	2152
2082450	129	1	2011-02-17	1268
2086957	129	1	2011-02-17	4719
2087130	129	1	2011-02-17	3920
2091656	129	1	2011-02-17	1072
2091916	129	1	2011-03-15	1686
2009510	129	10	2003-02-18	1399
2010477	129	10	2003-02-18	1338
2181619	129	10	2011-02-16	1737
2181620	129	10	2011-02-16	1916
2187998	129	10	2011-02-16	1792
2200027	129	10	2011-02-16	2304
2205177	129	10	2011-02-16	1134
2181699	129	10	2011-03-16	1190
2188075	129	10	2011-03-16	1687
2199993	129	10	2011-03-16	3208
2200122	129	10	2011-03-16	1065
2396073	129	10	2022-03-29	1775
2414500	129	10	2022-03-29	1672
2414501	129	10	2022-03-29	2316
2084473	129	12	2001-02-20	1170
2748061	129	12	2010-01-19	1056
2926530	129	2	2009-04-21	1566
2186057	129	2	2009-10-28	1298
2201942	129	2	2009-10-28	1227
2163666	129	2	2011-02-17	1680
2188462	129	3	2001-04-24	1248
2172582	129	3	2002-04-16	1058
2172583	129	3	2002-04-16	1324
2187499	129	3	2002-04-16	2541
2214391	129	4	2010-02-16	1441
2217364	129	4	2010-02-16	1141
2217663	129	4	2010-02-16	1465

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2000799	129	4	2011-02-16	1790
2000830	129	4	2011-02-16	2229
2001369	129	4	2011-02-16	2315
2001370	129	4	2011-02-16	3742
2048472	129	5	2001-03-27	1228
2049654	129	5	2003-03-19	6147
2051485	129	5	2003-03-19	2083
2060777	129	5	2003-03-19	4825
2060908	129	5	2003-03-19	2802
2094958	129	5	2010-01-20	5068
2096742	129	5	2010-01-20	1889
2108272	129	5	2010-01-20	1617
2096064	129	5	2010-03-17	1267
2103337	129	5	2010-03-17	1274
2109257	129	5	2010-03-17	1080
2109963	129	5	2011-02-16	3924
2109964	129	5	2011-02-16	4690
2121149	129	5	2011-02-16	2876
2063213	129	7	2011-02-15	1583
2068068	129	7	2011-02-15	1267
2071738	129	7	2011-02-15	1397
2111735	129	8	2001-02-21	1164
2652184	129	8	2003-02-19	1709
2594867	129	8	2004-02-17	1063
2025770	129	8	2011-02-16	5772
2027567	129	8	2011-02-16	4436
2027568	129	8	2011-02-16	5260
2028008	129	8	2011-02-16	3584
2034555	129	8	2011-02-16	4888
2028425	129	8	2011-03-16	1131
2026276	129	8	2011-04-12	1917
2032916	129	8	2011-04-12	1269
2060463	129	9	2001-03-28	1784
2062083	129	9	2001-03-28	1064
2069481	129	9	2001-03-28	1220
2069482	129	9	2001-03-28	1620
2072108	129	9	2003-02-18	1083
2077693	129	9	2004-03-23	1073
2148146	129	9	2011-01-18	1144
2137018	129	9	2011-02-16	8224
2139664	129	9	2011-02-16	4292
2143655	129	9	2011-02-16	5940
2148178	129	9	2011-02-16	5616
2137367	129	9	2011-03-16	1509
2140537	129	9	2011-03-16	5060
2144670	129	9	2011-03-16	1138
2144671	129	9	2011-03-16	4984
2029851	129	9	2011-04-12	1133
4225842	4043	FU-9-62-2010	2010-03-10	1520

Programs containing flagged data:

69 - Fisheries-Independent Monitoring (FIM) Program

129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring

4043 - RBNERR Fish Assessment

There are no *High* Quantile Flagged Values for Presence/Absence

Discrete WQ

Discrete WQ - Nutrients

Ammonia, Un-ionized (NH3)

Quantile Values:

Low: **0.00304** High: **0.4778**

Total data for *Ammonia, Un-ionized (NH3)* across all programs: **523**

Table 10: Flagged data, overview by program for **Ammonia, Un-ionized (NH3)**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
5028	2	1	1	523	0.38241	0.38241

Programs containing flagged data:

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Ammonium, Filtered (NH4)

Quantile Values:

Low: **-0.0228** High: **5.053**

Total data for *Ammonium, Filtered (NH4)* across all programs: **143744**

Table 11: Flagged data, overview by program for **Ammonium, Filtered (NH4)**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3	121	0	121	3128	3.86829	0.08418
354	1	0	1	6475	0.01544	0.00070
5002	164	143	21	62514	0.26234	0.11409

Programs containing flagged data:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

5002 - Florida STORET / WIN

Nitrate (NO3)

Quantile Values:

Low: **0** High: **0.95771**

Total data for *Nitrate (NO3)* across all programs: **11230**

Table 12: Flagged data, overview by program for **Nitrate (NO3)**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
5002	12	0	12	9219	0.13017	0.10686

Programs containing flagged data:

5002 - Florida STORET / WIN

Nitrite (NO₂)

Quantile Values:

Low: **0.00014** High: **0.3**

Total data for *Nitrite (NO₂)* across all programs: **41939**

Table 13: Flagged data, overview by program for **Nitrite (NO₂)**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
5002	3	2	1	12265	0.02446	0.00715

Programs containing flagged data:

5002 - Florida STORET / WIN

Nitrogen, organic

Quantile Values:

Low: **0.029** High: **2.7**

Total data for *Nitrogen, organic* across all programs: **7121**

Table 14: Flagged data, overview by program for **Nitrogen, organic**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
5002	13	6	7	7121	0.18256	0.18256

Programs containing flagged data:

5002 - Florida STORET / WIN

NO₂+3, Filtered

Quantile Values:

Low: **-0.002** High: **2.82996**

Total data for *NO₂+3, Filtered* across all programs: **161010**

Table 15: Flagged data, overview by program for **NO₂+3, Filtered**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3	153	0	153	2869	5.33287	0.09503
477	4	0	4	329	1.21581	0.00248
4058	1	0	1	2227	0.04490	0.00062
5002	154	150	4	72659	0.21195	0.09565

Programs containing flagged data:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys
 477 - Suwannee River Water Management District Water Resource Monitoring Program
 4058 - City of Miami Beach Water Monitoring
 5002 - Florida STORET / WIN

Phosphate, Filtered (PO4)

Quantile Values:

Low: **-0.007** High: **0.75252**

Total data for *Phosphate, Filtered (PO4)* across all programs: **61936**

Table 16: Flagged data, overview by program for **Phosphate, Filtered (PO4)**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3	16	0	16	4354	0.36748	0.02583
355	7	0	7	3176	0.22040	0.01130
513	3	0	3	3883	0.07726	0.00484
5002	87	51	36	37586	0.23147	0.14047

Programs containing flagged data:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 513 - Coastal Charlotte Harbor Monitoring Network
 5002 - Florida STORET / WIN

Total Kjeldahl Nitrogen

Quantile Values:

Low: **1e-04** High: **4.75**

Total data for *Total Kjeldahl Nitrogen* across all programs: **118592**

Table 17: Flagged data, overview by program for **Total Kjeldahl Nitrogen**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
303	4	0	4	1228	0.32573	0.00337
476	2	0	2	4718	0.04239	0.00169
513	68	66	2	4377	1.55358	0.05734
5002	130	23	107	71704	0.18130	0.10962
5014	3	0	3	1319	0.22745	0.00253

Programs containing flagged data:

303 - River, Estuary and Coastal Observing Network
 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
 513 - Coastal Charlotte Harbor Monitoring Network
 5002 - Florida STORET / WIN
 5014 - Guana River and Guana Lake Water Quality Monitoring

Total Nitrogen

Quantile Values:

Low: **7e-05** High: **4.12**

Total data for *Total Nitrogen* across all programs: **145119**

Table 18: Flagged data, overview by program for **Total Nitrogen**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
103	9	9	0	560	1.60714	0.00620
103	9	9	0	63	14.28571	0.00620
297	1	1	0	25707	0.00389	0.00069
297	1	1	0	25707	0.00389	0.00069
303	4	0	4	1222	0.32733	0.00276
303	4	0	4	1234	0.32415	0.00276
476	3	0	3	4518	0.06640	0.00207
479	2	0	2	8830	0.02265	0.00138
479	2	0	2	8825	0.02266	0.00138
513	33	30	3	3342	0.98743	0.02274
513	33	30	3	2710	1.21771	0.02274
514	63	63	0	10720	0.58769	0.04341
514	63	63	0	10762	0.58539	0.04341
4058	2	0	2	2125	0.09412	0.00138
5002	144	16	128	26807	0.53717	0.09923
5002	144	16	128	66620	0.21615	0.09923
5014	2	0	2	538	0.37175	0.00138

Programs containing flagged data:

103 - EPA STORage and RETrieval Data Warehouse (STORET)/WQX

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project

303 - River, Estuary and Coastal Observing Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

514 - Florida LAKEWATCH Program

4058 - City of Miami Beach Water Monitoring

5002 - Florida STORET / WIN

5014 - Guana River and Guana Lake Water Quality Monitoring

Total Nitrogen

Quantile Values:

Low: **6e-05** High: **2.77**

Total data for *Total Nitrogen* across all programs: **86051**

Table 19: Flagged data, overview by program for **Total Nitrogen**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
297	2	1	1	25707	0.00778	0.00232
297	2	1	1	25707	0.00778	0.00232
303	9	0	9	1234	0.72934	0.01046

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
303	9	0	9	1222	0.73650	0.01046
479	3	0	3	8830	0.03398	0.00349
479	3	0	3	8825	0.03399	0.00349
509	1	0	1	6212	0.01610	0.00116
509	1	0	1	6212	0.01610	0.00116
513	23	9	14	3342	0.68821	0.02673
513	23	9	14	2710	0.84871	0.02673
514	32	31	1	10762	0.29734	0.03719
514	32	31	1	10720	0.29851	0.03719
5002	53	0	53	66620	0.07956	0.06159
5002	53	0	53	26807	0.19771	0.06159
5058	1	0	1	268	0.37313	0.00116
5058	1	0	1	268	0.37313	0.00116
10000	3	0	3	2079	0.14430	0.00349
10000	3	0	3	2062	0.14549	0.00349

Programs containing flagged data:

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
 303 - River, Estuary and Coastal Observing Network
 479 - Southwest Florida Water Management District - Water Quality Monitoring
 509 - SERC Water Quality Monitoring Network
 513 - Coastal Charlotte Harbor Monitoring Network
 514 - Florida LAKEWATCH Program
 5002 - Florida STORET / WIN
 5058 - Southeast Florida Coral Reef Initiative (SEFCRI) Water Quality Monitoring Report
 10000 - RiverKeeper

Total Phosphorus

Quantile Values:

Low: **0** High: **0.72932**

Total data for *Total Phosphorus* across all programs: **165226**

Table 20: Flagged data, overview by program for **Total Phosphorus**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
103	7	0	7	5682	0.12320	0.00424
355	3	0	3	3374	0.08892	0.00182
476	7	0	7	4833	0.14484	0.00424
479	1	0	1	8869	0.01128	0.00061
513	14	0	14	3752	0.37313	0.00847
5002	215	84	131	60208	0.35710	0.13012
5014	3	0	3	664	0.45181	0.00182

Programs containing flagged data:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)/WQX
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring
 513 - Coastal Charlotte Harbor Monitoring Network
 5002 - Florida STORET / WIN
 5014 - Guana River and Guana Lake Water Quality Monitoring

Discrete WQ - Water Clarity

Chlorophyll a, Corrected for Pheophytin

Quantile Values:

Low: **0** High: **110**

Total data for *Chlorophyll a, Corrected for Pheophytin* across all programs: **69339**

Table 21: Flagged data, overview by program for **Chlorophyll a, Corrected for Pheophytin**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
103	4	0	4	1362	0.29369	0.00577
303	2	0	2	1903	0.10510	0.00288
354	1	0	1	2614	0.03826	0.00144
355	1	0	1	7964	0.01256	0.00144
476	1	0	1	2948	0.03392	0.00144
513	16	3	13	4141	0.38638	0.02308
514	6	0	6	1483	0.40459	0.00865
540	3	0	3	465	0.64516	0.00433
5002	29	1	28	21766	0.13324	0.04182
5014	3	0	3	663	0.45249	0.00433
10000	2	0	2	2776	0.07205	0.00288

Programs containing flagged data:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)/WQX
 303 - River, Estuary and Coastal Observing Network
 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
 513 - Coastal Charlotte Harbor Monitoring Network
 514 - Florida LAKEWATCH Program
 540 - Shellfish Harvest Area Classification Program
 5002 - Florida STORET / WIN
 5014 - Guana River and Guana Lake Water Quality Monitoring
 10000 - RiverKeeper

Chlorophyll a, Uncorrected for Pheophytin

Quantile Values:

Low: **0** High: **111.0071**

Total data for *Chlorophyll a, Uncorrected for Pheophytin* across all programs: **92930**

Table 22: Flagged data, overview by program for **Chlorophyll a, Uncorrected for Pheophytin**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
95	12	0	12	1888	0.63559	0.01291
103	26	26	0	4829	0.53841	0.02798
354	1	0	1	6728	0.01486	0.00108
355	1	0	1	4336	0.02306	0.00108
476	2	0	2	2985	0.06700	0.00215
479	1	0	1	1754	0.05701	0.00108
514	27	0	27	9853	0.27403	0.02905
540	3	0	3	453	0.66225	0.00323
4054	1	0	1	5290	0.01890	0.00108
5002	39	0	39	20305	0.19207	0.04197
5014	4	0	4	721	0.55479	0.00430
10000	2	0	2	3380	0.05917	0.00215

Programs containing flagged data:

95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STORage and RETrieval Data Warehouse (STORET)/WQX
 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
 479 - Southwest Florida Water Management District - Water Quality Monitoring
 514 - Florida LAKEWATCH Program
 540 - Shellfish Harvest Area Classification Program
 4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
 5002 - Florida STORET / WIN
 5014 - Guana River and Guana Lake Water Quality Monitoring
 10000 - RiverKeeper

Colored Dissolved Organic Matter

Quantile Values:

Low: **0** High: **698.0772**

Total data for *Colored Dissolved Organic Matter* across all programs: **26837**

Table 23: Flagged data, overview by program for **Colored Dissolved Organic Matter**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
4054	18	0	18	1667	1.07978	0.06707
5002	9	0	9	8314	0.10825	0.03354

Programs containing flagged data:

4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
 5002 - Florida STORET / WIN

Light Extinction Coefficient

Quantile Values:

Low: **0.001** High: **7.93897**

Total data for *Light Extinction Coefficient* across all programs: **15549**

Table 24: Flagged data, overview by program for **Light Extinction Coefficient**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
297	24	11	13	10403	0.23070	0.15435
4064	1	1	0	619	0.16155	0.00643
5002	3	0	3	2328	0.12887	0.01929
5058	1	1	0	133	0.75188	0.00643

Programs containing flagged data:

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project

4064 - A spatial model to improve site selection for seagrass restoration in shallow boating environments

5002 - Florida STORET / WIN

5058 - Southeast Florida Coral Reef Initiative (SEFCRI) Water Quality Monitoring Report

Secchi Depth

Quantile Values:

Low: **0.1** High: **18.95607**

Total data for *Secchi Depth* across all programs: **351430**

Table 25: Flagged data, overview by program for **Secchi Depth**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
60	10	0	10	42	23.80952	0.00285
103	7	2	5	3121	0.22429	0.00199
470	1	0	1	356	0.28090	0.00028
476	1	1	0	3826	0.02614	0.00028
479	2	0	2	8954	0.02234	0.00057
514	3	2	1	9437	0.03179	0.00085
537	1	0	1	229	0.43668	0.00028
3001	28	28	0	8683	0.32247	0.00797
3013	3	3	0	1989	0.15083	0.00085
5002	6	5	1	23292	0.02576	0.00171
5033	331	0	331	7891	4.19465	0.09419
10000	1	1	0	3316	0.03016	0.00028

Programs containing flagged data:

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

103 - EPA STORage and RETrieval Data Warehouse (STORET)/WQX

470 - St. Andrews Aquatic Preserve Water Quality Monitoring

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

514 - Florida LAKEWATCH Program
 537 - Choctawhatchee Basin Alliance Living Shorelines Oyster Reef Monitoring
 3001 - Lagoon Watch (Formerly Marine Discovery Center)
 3013 - Seagrass (SJRWMD)
 5002 - Florida STORET / WIN
 5033 - Southeast Florida Water Quality Assessment Survey
 10000 - RiverKeeper

Total Suspended Solids

Quantile Values:

Low: **0** High: **175.637**

Total data for *Total Suspended Solids* across all programs: **91364**

Table 26: Flagged data, overview by program for **Total Suspended Solids**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
103	3	0	3	3614	0.08301	0.00328
355	1	0	1	3386	0.02953	0.00109
513	5	0	5	4275	0.11696	0.00547
4054	10	0	10	4408	0.22686	0.01095
5002	84	18	66	48988	0.17147	0.09194
5033	7	0	7	15025	0.04659	0.00766

Programs containing flagged data:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)/WQX
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 513 - Coastal Charlotte Harbor Monitoring Network
 4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
 5002 - Florida STORET / WIN
 5033 - Southeast Florida Water Quality Assessment Survey

Turbidity

Quantile Values:

Low: **0** High: **125.97308**

Total data for *Turbidity* across all programs: **316770**

Table 27: Flagged data, overview by program for **Turbidity**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
95	1	0	1	398	0.25126	0.00032
103	239	11	228	19595	1.21970	0.07545
303	29	0	29	1899	1.52712	0.00915
354	14	0	14	734	1.90736	0.00442
469	5	5	0	481	1.03950	0.00158
505	2	2	0	74	2.70270	0.00063
557	2	2	0	369	0.54201	0.00063
4058	2	0	2	2316	0.08636	0.00063
5002	42	0	42	209729	0.02003	0.01326

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
5026	10	9	1	410	2.43902	0.00316

Programs containing flagged data:

95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STORage and RETrieval Data Warehouse (STORET)/WQX
 303 - River, Estuary and Coastal Observing Network
 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 469 - Central Panhandle Aquatic Preserve WQ Monitoring
 505 - Pensacola Bay Water Quality Monitoring Program
 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
 4058 - City of Miami Beach Water Monitoring
 5002 - Florida STORET / WIN
 5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Discrete WQ - Water Quality

Dissolved Oxygen

Quantile Values:

Low: **0.22** High: **14**

Total data for *Dissolved Oxygen* across all programs: **854074**

Table 28: Flagged data, overview by program for **Dissolved Oxygen**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
69	628	81	547	276883	0.22681	0.07353
95	49	9	40	15195	0.32247	0.00574
103	1	0	1	24048	0.00416	0.00012
118	4	4	0	549	0.72860	0.00047
297	2	0	2	32169	0.00622	0.00023
303	3	0	3	1415	0.21201	0.00035
355	2	2	0	2466	0.08110	0.00023
470	2	1	1	934	0.21413	0.00023
476	4	4	0	4388	0.09116	0.00047
477	2	2	0	325	0.61538	0.00023
479	43	37	6	19968	0.21534	0.00503
509	2	1	1	12158	0.01645	0.00023
513	25	22	3	8278	0.30201	0.00293
537	1	1	0	387	0.25840	0.00012
540	1	0	1	396	0.25253	0.00012
557	1	0	1	1129	0.08857	0.00012
560	7	0	7	2371	0.29523	0.00082
3000	8	8	0	386	2.07254	0.00094
3001	14	9	5	12749	0.10981	0.00164
3013	3	0	3	2285	0.13129	0.00035
4043	4	4	0	2972	0.13459	0.00047
4054	6	0	6	3325	0.18045	0.00070
4058	7	3	4	2254	0.31056	0.00082
4067	45	37	8	17562	0.25624	0.00527

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
5002	770	576	194	385043	0.19998	0.09016
5014	3	3	0	259	1.15830	0.00035
5058	2	2	0	266	0.75188	0.00023
10000	8	8	0	6919	0.11562	0.00094

Programs containing flagged data:

69 - Fisheries-Independent Monitoring (FIM) Program
 95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)/WQX
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
 303 - River, Estuary and Coastal Observing Network
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
 477 - Suwannee River Water Management District Water Resource Monitoring Program
 479 - Southwest Florida Water Management District - Water Quality Monitoring
 509 - SERC Water Quality Monitoring Network
 513 - Coastal Charlotte Harbor Monitoring Network
 537 - Choctawhatchee Basin Alliance Living Shorelines Oyster Reef Monitoring
 540 - Shellfish Harvest Area Classification Program
 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
 3000 - Florida Keys Water Watch
 3001 - Lagoon Watch (Formerly Marine Discovery Center)
 3013 - Seagrass (SJRWMD)
 4043 - RBNERR Fish Assessment
 4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
 4058 - City of Miami Beach Water Monitoring
 4067 - Tampa Bay Benthic Monitoring
 5002 - Florida STORET / WIN
 5014 - Guana River and Guana Lake Water Quality Monitoring
 5058 - Southeast Florida Coral Reef Initiative (SEFCRI) Water Quality Monitoring Report
 10000 - RiverKeeper

Dissolved Oxygen Saturation

Quantile Values:

Low: **0.32159** High: **175**

Total data for *Dissolved Oxygen Saturation* across all programs: **156005**

Table 29: Flagged data, overview by program for **Dissolved Oxygen Saturation**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
95	3	1	2	1498	0.20027	0.00192
129	1	0	1	3933	0.02543	0.00064
297	12	0	12	25419	0.04721	0.00769
303	6	0	6	1682	0.35672	0.00385
572	1	0	1	27	3.70370	0.00064

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3001	146	126	20	12665	1.15278	0.09359
3013	3	0	3	1160	0.25862	0.00192
4064	1	0	1	619	0.16155	0.00064
4067	32	0	32	17104	0.18709	0.02051
5002	106	30	76	72141	0.14693	0.06795
5008	1	0	1	2680	0.03731	0.00064
5026	1	0	1	491	0.20367	0.00064

Programs containing flagged data:

95 - Harmful Algal Bloom Marine Observation Network
129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
303 - River, Estuary and Coastal Observing Network
572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring
3001 - Lagoon Watch (Formerly Marine Discovery Center)
3013 - Seagrass (SJRWMD)
4064 - A spatial model to improve site selection for seagrass restoration in shallow boating environments
4067 - Tampa Bay Benthic Monitoring
5002 - Florida STORET / WIN
5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region
5026 - North Biscayne Bay Seagrass Loss Water Quality Program

pH

Quantile Values:

Low: 5.3 High: 9.3

Total data for *pH* across all programs: **686878**

Table 30: Flagged data, overview by program for **pH**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
69	376	117	259	275616	0.13642	0.05474
95	54	7	47	12927	0.41773	0.00786
103	1	0	1	13822	0.00723	0.00015
129	7	3	4	2248	0.31139	0.00102
303	20	0	20	1882	1.06270	0.00291
354	12	2	10	885	1.35593	0.00175
355	12	4	8	1295	0.92664	0.00175
469	13	0	13	1168	1.11301	0.00189
470	1	0	1	959	0.10428	0.00015
476	4	2	2	4781	0.08366	0.00058
477	8	8	0	329	2.43161	0.00116
479	16	7	9	17571	0.09106	0.00233
509	25	25	0	3472	0.72005	0.00364
513	7	2	5	8222	0.08514	0.00102
560	2	2	0	2084	0.09597	0.00029
3000	2	0	2	331	0.60423	0.00029
3001	6	4	2	12159	0.04935	0.00087
3013	1	0	1	2271	0.04403	0.00015

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
4054	2	1	1	3411	0.05863	0.00029
4058	5	1	4	2308	0.21664	0.00073
4065	1	0	1	356	0.28090	0.00015
4067	12	3	9	13727	0.08742	0.00175
5002	651	455	196	288930	0.22531	0.09478

Programs containing flagged data:

69 - Fisheries-Independent Monitoring (FIM) Program
 95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STORage and RETrieval Data Warehouse (STORET)/WQX
 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
 303 - River, Estuary and Coastal Observing Network
 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 469 - Central Panhandle Aquatic Preserve WQ Monitoring
 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
 477 - Suwannee River Water Management District Water Resource Monitoring Program
 479 - Southwest Florida Water Management District - Water Quality Monitoring
 509 - SERC Water Quality Monitoring Network
 513 - Coastal Charlotte Harbor Monitoring Network
 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
 3000 - Florida Keys Water Watch
 3001 - Lagoon Watch (Formerly Marine Discovery Center)
 3013 - Seagrass (SJRWMD)
 4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
 4058 - City of Miami Beach Water Monitoring
 4065 - Northwest Florida Aquatic Preserve Seagrass Survey
 4067 - Tampa Bay Benthic Monitoring
 5002 - Florida STORET / WIN

Salinity

Quantile Values:

Low: **0** High: **41.1**

Total data for *Salinity* across all programs: **855600**

Table 31: Flagged data, overview by program for **Salinity**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3	16	0	16	4636	0.34513	0.00187
69	134	0	134	278882	0.04805	0.01566
95	126	0	126	26672	0.47241	0.01473
115	3	0	3	360	0.83333	0.00035
118	16	0	16	535	2.99065	0.00187
297	33	0	33	31815	0.10372	0.00386
354	6	0	6	1284	0.46729	0.00070
456	6	0	6	134	4.47761	0.00070
476	17	0	17	5023	0.33844	0.00199

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
509	19	0	19	12060	0.15755	0.00222
560	1	0	1	2396	0.04174	0.00012
965	8	0	8	4157	0.19245	0.00094
3000	4	0	4	388	1.03093	0.00047
3001	14	0	14	12721	0.11005	0.00164
3013	4	0	4	2346	0.17050	0.00047
4043	1	0	1	3044	0.03285	0.00012
4049	27	0	27	1354	1.99409	0.00316
4057	3	0	3	230	1.30435	0.00035
4058	2	0	2	2308	0.08666	0.00023
4067	3	0	3	12597	0.02382	0.00035
5002	373	0	373	392549	0.09502	0.04360

Programs containing flagged data:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys
69 - Fisheries-Independent Monitoring (FIM) Program
95 - Harmful Algal Bloom Marine Observation Network
115 - Environmental Monitoring Assessment Program
118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
456 - Oyster Sentinel
476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
509 - SERC Water Quality Monitoring Network
560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
965 - South Florida Seagrass Fish and Invertebrate Assessment Network
3000 - Florida Keys Water Watch
3001 - Lagoon Watch (Formerly Marine Discovery Center)
3013 - Seagrass (SJRWMD)
4043 - RBNERR Fish Assessment
4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
4057 - Biscayne Bay Water Watch
4058 - City of Miami Beach Water Monitoring
4067 - Tampa Bay Benthic Monitoring
5002 - Florida STORET / WIN

Specific Conductivity

Quantile Values:

Low: **0.0054** High: **60.69941**

Total data for *Specific Conductivity* across all programs: **447589**

Table 32: Flagged data, overview by program for **Specific Conductivity**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
69	397	397	0	248260	0.15991	0.08870
95	1	1	0	2834	0.03529	0.00022
103	1	0	1	10667	0.00937	0.00022

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
354	11	0	11	425	2.58824	0.00246
355	1	0	1	639	0.15649	0.00022
514	1	0	1	2981	0.03355	0.00022
572	1	0	1	27	3.70370	0.00022
3013	5	0	5	2290	0.21834	0.00112
4058	16	0	16	2301	0.69535	0.00357
4067	4	0	4	13474	0.02969	0.00089
5002	407	0	407	124827	0.32605	0.09093
10000	1	0	1	6808	0.01469	0.00022

Programs containing flagged data:

69 - Fisheries-Independent Monitoring (FIM) Program
95 - Harmful Algal Bloom Marine Observation Network
103 - EPA STOrage and RETrieval Data Warehouse (STORET)/WQX
354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
514 - Florida LAKEWATCH Program
572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring
3013 - Seagrass (SJRWMD)
4058 - City of Miami Beach Water Monitoring
4067 - Tampa Bay Benthic Monitoring
5002 - Florida STORET / WIN
10000 - RiverKeeper

Water Temperature

Quantile Values:

Low: 6.6 High: 33.9

Total data for *Water Temperature* across all programs: **904772**

Table 33: Flagged data, overview by program for **Water Temperature**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
69	413	117	296	279269	0.14789	0.04565
95	83	4	79	25894	0.32054	0.00917
103	5	0	5	25337	0.01973	0.00055
129	2	1	1	3959	0.05052	0.00022
297	31	0	31	31803	0.09748	0.00343
303	10	0	10	1977	0.50582	0.00111
354	7	0	7	1281	0.54645	0.00077
355	11	11	0	2495	0.44088	0.00122
470	1	0	1	987	0.10132	0.00011
476	2	1	1	5066	0.03948	0.00022
479	4	0	4	18434	0.02170	0.00044
509	8	0	8	12044	0.06642	0.00088
513	3	0	3	8348	0.03594	0.00033
537	1	0	1	501	0.19960	0.00011
540	2	0	2	435	0.45977	0.00022
557	1	0	1	1118	0.08945	0.00011

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
558	1	0	1	416	0.24038	0.00011
560	3	0	3	2395	0.12526	0.00033
965	5	0	5	4157	0.12028	0.00055
982	5	0	5	1129	0.44287	0.00055
3000	13	0	13	379	3.43008	0.00144
3001	74	3	71	12780	0.57903	0.00818
3013	10	0	10	2336	0.42808	0.00111
4043	3	0	3	3038	0.09875	0.00033
4054	6	0	6	3558	0.16863	0.00066
4057	1	0	1	227	0.44053	0.00011
4058	2	0	2	2298	0.08703	0.00022
4064	3	0	3	619	0.48465	0.00033
4067	3	0	3	16167	0.01856	0.00033
5002	1007	745	262	418103	0.24085	0.11130
5008	1	0	1	2680	0.03731	0.00011
5026	2	0	2	1535	0.13029	0.00022

Programs containing flagged data:

69 - Fisheries-Independent Monitoring (FIM) Program
95 - Harmful Algal Bloom Marine Observation Network
103 - EPA STorage and RETrieval Data Warehouse (STORET)/WQX
129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
303 - River, Estuary and Coastal Observing Network
354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
470 - St. Andrews Aquatic Preserve Water Quality Monitoring
476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
479 - Southwest Florida Water Management District - Water Quality Monitoring
509 - SERC Water Quality Monitoring Network
513 - Coastal Charlotte Harbor Monitoring Network
537 - Choctawhatchee Basin Alliance Living Shorelines Oyster Reef Monitoring
540 - Shellfish Harvest Area Classification Program
557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
558 - Franklin County Coastal Waters Seagrass Monitoring
560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
965 - South Florida Seagrass Fish and Invertebrate Assessment Network
982 - Florida Keys Bleach Watch
3000 - Florida Keys Water Watch
3001 - Lagoon Watch (Formerly Marine Discovery Center)
3013 - Seagrass (SJRWMD)
4043 - RBNERR Fish Assessment
4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
4057 - Biscayne Bay Water Watch
4058 - City of Miami Beach Water Monitoring
4064 - A spatial model to improve site selection for seagrass restoration in shallow boating environments
4067 - Tampa Bay Benthic Monitoring
5002 - Florida STORET / WIN
5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region
5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Continuous WQ

Continuous WQ - Water Quality

Dissolved Oxygen

Quantile Values:

Low: **0.1** High: **13.4**

Total data for *Dissolved Oxygen* across all programs: **14470275**

Table 34: Flagged data, overview by program for **Dissolved Oxygen**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
7	11	0	11	11878	0.09261	0.00008
354	2159	920	1239	2696466	0.08007	0.01492
355	13477	3183	10294	3226473	0.41770	0.09314
467	122	78	44	241317	0.05056	0.00084
468	144	2	142	225191	0.06395	0.00100
471	96	1	95	845547	0.01135	0.00066
474	87	18	69	1511079	0.00576	0.00060
505	1	1	0	3794	0.02636	0.00001
512	950	446	504	1666073	0.05702	0.00657
4054	2	2	0	2677491	0.00007	0.00001
5006	17	17	0	316159	0.00538	0.00012
5061	143	38	105	170475	0.08388	0.00099
5077	2175	1016	1159	760981	0.28582	0.01503

Programs containing flagged data:

7 - National Water Information System

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

467 - Yellow River Marsh Aquatic Preserve Continuous Water Quality Monitoring

468 - Central Panhandle Aquatic Preserves Continuous Water Quality Monitoring

471 - Big Bend Seagrasses Aquatic Preserves Continuous Water Quality Monitoring

474 - Estero Bay Aquatic Preserve Continuous Water Quality Monitoring

505 - Pensacola Bay Water Quality Monitoring Program

512 - Charlotte Harbor Aquatic Preserves Continuous Water Quality Monitoring

4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program

5006 - Northeast Aquatic Preserves Continuous Water Quality Monitoring

5061 - St. Johns River Water Management District Continuous Water Quality Programs

5077 - Biscayne Bay Aquatic Preserves Continuous Water Quality Monitoring

Dissolved Oxygen Saturation

Quantile Values:

Low: **1.6** High: **171.9**

Total data for *Dissolved Oxygen Saturation* across all programs: **14571739**

Table 35: Flagged data, overview by program for **Dissolved Oxygen Saturation**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
354	4946	3174	1772	2721304	0.18175	0.03394
355	10676	8299	2377	3232431	0.33028	0.07327
467	268	263	5	247585	0.10825	0.00184
468	248	2	246	241286	0.10278	0.00170
471	485	9	476	852590	0.05689	0.00333
474	1004	173	831	1524925	0.06584	0.00689
505	1	1	0	3748	0.02668	0.00001
512	4499	833	3666	1665033	0.27020	0.03087
4054	10	10	0	2702399	0.00037	0.00007
5006	58	58	0	316195	0.01834	0.00040
5061	235	37	198	181288	0.12963	0.00161
5077	6131	1326	4805	765603	0.80081	0.04207
10004	91	0	91	28961	0.31422	0.00062

Programs containing flagged data:

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
467 - Yellow River Marsh Aquatic Preserve Continuous Water Quality Monitoring
468 - Central Panhandle Aquatic Preserves Continuous Water Quality Monitoring
471 - Big Bend Seagrasses Aquatic Preserves Continuous Water Quality Monitoring
474 - Estero Bay Aquatic Preserve Continuous Water Quality Monitoring
505 - Pensacola Bay Water Quality Monitoring Program
512 - Charlotte Harbor Aquatic Preserves Continuous Water Quality Monitoring
4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
5006 - Northeast Aquatic Preserves Continuous Water Quality Monitoring
5061 - St. Johns River Water Management District Continuous Water Quality Programs
5077 - Biscayne Bay Aquatic Preserves Continuous Water Quality Monitoring
10004 - Florida Keys Aquatic Preserves Continuous Water Quality Monitoring

pH

Quantile Values:

Low: 5 High: 9

Total data for *pH* across all programs: **15077771**

Table 36: Flagged data, overview by program for **pH**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
354	16	16	0	2951249	0.00054	0.00011
355	15813	12983	2830	3272843	0.48316	0.10488
468	315	2	313	249067	0.12647	0.00209
471	4572	0	4572	1002731	0.45595	0.03032
474	359	7	352	1764805	0.02034	0.00238
512	377	60	317	1578074	0.02389	0.00250
4054	915	0	915	2628466	0.03481	0.00607
5061	4534	0	4534	170236	2.66336	0.03007
5077	138	0	138	759838	0.01816	0.00092

Programs containing flagged data:

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 468 - Central Panhandle Aquatic Preserves Continuous Water Quality Monitoring
 471 - Big Bend Seagrasses Aquatic Preserves Continuous Water Quality Monitoring
 474 - Estero Bay Aquatic Preserve Continuous Water Quality Monitoring
 512 - Charlotte Harbor Aquatic Preserves Continuous Water Quality Monitoring
 4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
 5061 - St. Johns River Water Management District Continuous Water Quality Programs
 5077 - Biscayne Bay Aquatic Preserves Continuous Water Quality Monitoring

Salinity

Quantile Values:

Low: **0** High: **40.8**

Total data for *Salinity* across all programs: **15954969**

Table 37: Flagged data, overview by program for **Salinity**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
2	56	0	56	86204	0.06496	0.00035
7	214	0	214	71039	0.30124	0.00134
354	12590	0	12590	3057438	0.41178	0.07891
355	407	0	407	3385349	0.01202	0.00255
474	1302	0	1302	1793666	0.07259	0.00816
4054	833	0	833	2661235	0.03130	0.00522
5006	9	0	9	328015	0.00274	0.00006
5077	39	0	39	753080	0.00518	0.00024

Programs containing flagged data:

2 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Moored Instrument Array
 7 - National Water Information System
 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 474 - Estero Bay Aquatic Preserve Continuous Water Quality Monitoring
 4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
 5006 - Northeast Aquatic Preserves Continuous Water Quality Monitoring
 5077 - Biscayne Bay Aquatic Preserves Continuous Water Quality Monitoring

Water Temperature

Quantile Values:

Low: **8.1** High: **33.8**

Total data for *Water Temperature* across all programs: **38208924**

Table 38: Flagged data, overview by program for **Water Temperature**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
2	5	0	5	86204	0.00580	0.00001
5	9131	2893	6238	6144120	0.14861	0.02390
7	233	1	232	99321	0.23459	0.00061
296	2954	0	2954	3987025	0.07409	0.00773
354	11503	68	11435	3141945	0.36611	0.03011
355	12401	12066	335	3479542	0.35640	0.03246
467	1533	1480	53	282764	0.54215	0.00401
468	2933	2238	695	276962	1.05899	0.00768
471	12220	10983	1237	1289781	0.94745	0.03198
474	6674	210	6464	1934809	0.34494	0.01747
505	13	12	1	3870	0.33592	0.00003
512	1517	322	1195	1794498	0.08454	0.00397
986	306	0	306	8692018	0.00352	0.00080
989	104	1	103	1824357	0.00570	0.00027
4054	6703	2610	4093	2797344	0.23962	0.01754
5005	294	0	294	43791	0.67137	0.00077
5006	1543	1542	1	328439	0.46980	0.00404
5061	177	174	3	170934	0.10355	0.00046
5077	3152	2325	827	794358	0.39680	0.00825
10003	51	0	51	41374	0.12327	0.00013
10004	86	0	86	28953	0.29703	0.00023

Programs containing flagged data:

2 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Moored Instrument Array
5 - National Data Buoy Center
7 - National Water Information System
296 - Florida Keys National Marine Sanctuary Seagrass Monitoring Project
354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
467 - Yellow River Marsh Aquatic Preserve Continuous Water Quality Monitoring
468 - Central Panhandle Aquatic Preserves Continuous Water Quality Monitoring
471 - Big Bend Seagrasses Aquatic Preserves Continuous Water Quality Monitoring
474 - Estero Bay Aquatic Preserve Continuous Water Quality Monitoring
505 - Pensacola Bay Water Quality Monitoring Program
512 - Charlotte Harbor Aquatic Preserves Continuous Water Quality Monitoring
986 - Water Temperature on Coral Reefs in the Florida Keys
989 - Continuous Bottom Temperature Measurements along the Florida Reef Tract
4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
5005 - Indian River Lagoon Aquatic Preserves Continuous Water Quality Monitoring
5006 - Northeast Aquatic Preserves Continuous Water Quality Monitoring
5061 - St. Johns River Water Management District Continuous Water Quality Programs
5077 - Biscayne Bay Aquatic Preserves Continuous Water Quality Monitoring
10003 - Tomoka Marsh Aquatic Preserve Continuous Water Quality Monitoring
10004 - Florida Keys Aquatic Preserves Continuous Water Quality Monitoring

Continuous WQ - Water Clarity

Turbidity

Quantile Values:

Low: **0** High: **512**

Total data for *Turbidity* across all programs: **14404695**

Table 39: Flagged data, overview by program for **Turbidity**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
354	1715	0	1715	2888640	0.05937	0.01191
355	5745	0	5745	3163619	0.18160	0.03988
467	97	0	97	270091	0.03591	0.00067
468	377	0	377	211175	0.17852	0.00262
471	435	0	435	933388	0.04660	0.00302
473	26	0	26	8263	0.31466	0.00018
474	46	0	46	1512197	0.00304	0.00032
512	4316	0	4316	1465637	0.29448	0.02996
4054	1335	0	1335	2606389	0.05122	0.00927
5006	242	0	242	316819	0.07638	0.00168
5077	5	0	5	766524	0.00065	0.00003
10003	37	0	37	41169	0.08987	0.00026
10004	1	0	1	28814	0.00347	0.00001

Programs containing flagged data:

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
467 - Yellow River Marsh Aquatic Preserve Continuous Water Quality Monitoring
468 - Central Panhandle Aquatic Preserves Continuous Water Quality Monitoring
471 - Big Bend Seagrasses Aquatic Preserves Continuous Water Quality Monitoring
473 - Terra Ceia Aquatic Preserve Continuous Water Quality Monitoring
474 - Estero Bay Aquatic Preserve Continuous Water Quality Monitoring
512 - Charlotte Harbor Aquatic Preserves Continuous Water Quality Monitoring
4054 - Guana Tolomato Matanzas National Estuarine Research Reserve System-Wide Monitoring Program
5006 - Northeast Aquatic Preserves Continuous Water Quality Monitoring
5077 - Biscayne Bay Aquatic Preserves Continuous Water Quality Monitoring
10003 - Tomoka Marsh Aquatic Preserve Continuous Water Quality Monitoring
10004 - Florida Keys Aquatic Preserves Continuous Water Quality Monitoring