

Water Column Indicator Quantile Report

SEACAR Analysis

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Contents

Overview	3
Purpose	3
Relevant file locations	3
Process steps	3
Summary	4
Summary Tables	6
Nekton	6
Discrete WQ	6
Continuous WQ	7
Nekton	8
Low Quantile	8
Standard Length	8
High Quantile	32
Standard Length	32
Count	59
Discrete WQ	66
Discrete WQ - Nutrients	66
Ammonia, Un-ionized (NH ₃)	66
Ammonium, Filtered (NH ₄)	66
Nitrate (NO ₃)	66
Nitrite (NO ₂)	67
Nitrogen, organic	67
NO ₂ + ₃ , Filtered	67
Phosphate, Filtered (PO ₄)	68
Total Kjeldahl Nitrogen	68
Total Nitrogen	68
Total Nitrogen	69
Total Phosphorus	70
Discrete WQ - Water Clarity	71
Chlorophyll a, Corrected for Pheophytin	71
Chlorophyll a, Uncorrected for Pheophytin	71
Colored Dissolved Organic Matter	72
Light Extinction Coefficient	72
Secchi Depth	73
Total Suspended Solids	74
Turbidity	74
Discrete WQ - Water Quality	75

Dissolved Oxygen	75
Dissolved Oxygen Saturation	76
pH	77
Salinity	78
Specific Conductivity	79
Water Temperature	80
Continuous WQ	82
Continuous WQ - Water Quality	82
Dissolved Oxygen	82
Dissolved Oxygen Saturation	82
pH	83
Salinity	84
Water Temperature	84
Continuous WQ - Water Clarity	86
Turbidity	86

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-2025-Mar-06.txt

- Standard Length
- Count
- Presence/Absence

Discrete WQ

Indicator: Nutrients

- Ammonia, Un-ionized (NH₃)
 - *Combined_WQ_WC_NUT_Ammonia_Un-ionized_NH3-2025-Mar-06.txt*
- Ammonium, Filtered (NH₄)
 - *Combined_WQ_WC_NUT_NH4_Filtered-2025-Mar-06.txt*
- Nitrate (NO₃)
 - *Combined_WQ_WC_NUT_Nitrate_N-2025-Mar-06.txt*
- Nitrite (NO₂)
 - *Combined_WQ_WC_NUT_Nitrite_N-2025-Mar-06.txt*
- Nitrogen, organic
 - *Combined_WQ_WC_NUT_Nitrogen_organic-2025-Mar-06.txt*
- NO₂+3, Filtered
 - *Combined_WQ_WC_NUT_NO2_3_Filtered-2025-Mar-06.txt*
- Phosphate, Filtered (PO₄)
 - *Combined_WQ_WC_NUT_PO4_Filtered-2025-Mar-06.txt*
- Total Kjeldahl Nitrogen
 - *Combined_WQ_WC_NUT_Total_Kjeldahl_Nitrogen_TKN-2025-Mar-06.txt*
- Total Nitrogen (All)
 - *Combined_WQ_WC_NUT_Total_Nitrogen-2025-Mar-06.txt*
- Total Nitrogen (Calculated)
 - *Combined_WQ_WC_NUT_Total_Nitrogen-2025-Mar-06.txt*
- Total Phosphorus
 - *Combined_WQ_WC_NUT_Total_Phosphorus-2025-Mar-06.txt*

Indicator: Water Clarity

- Chlorophyll a, Corrected for Pheophytin
 - *Combined_WQ_WC_NUT_Chlorophyll_a_corrected_for_pheophytin-2025-Mar-06.txt*
- Chlorophyll a, Uncorrected for Pheophytin
 - *Combined_WQ_WC_NUT_Chlorophyll_a_uncorrected_for_pheophytin-2025-Mar-06.txt*
- Colored Dissolved Organic Matter
 - *Combined_WQ_WC_NUT_Colored_dissolved_organic_matter_CDOM-2025-Mar-06.txt*
- Light Extinction Coefficient
 - *Combined_WQ_WC_NUT_Light_Extinction_Coefficient-2025-Mar-06.txt*
- Secchi Depth
 - *Combined_WQ_WC_NUT_Secchi_Depth-2025-Mar-06.txt*
- Total Suspended Solids
 - *Combined_WQ_WC_NUT_Total_Suspended_Solids_TSS-2025-Mar-06.txt*
- Turbidity

- *Combined_WQ_WC_NUT_Turbidity-2025-Mar-06.txt*

Indicator: Water Quality

- Dissolved Oxygen
 - *Combined_WQ_WC_NUT_Dissolved_Oxygen-2025-Mar-06.txt*
- Dissolved Oxygen Saturation
 - *Combined_WQ_WC_NUT_Dissolved_Oxygen_Saturation-2025-Mar-06.txt*
- pH
 - *Combined_WQ_WC_NUT_pH-2025-Mar-06.txt*
- Salinity
 - *Combined_WQ_WC_NUT_Salinity-2025-Mar-06.txt*
- Specific Conductivity
 - *Combined_WQ_WC_NUT_Specific_Conductivity-2025-Mar-06.txt*
- Water Temperature
 - *Combined_WQ_WC_NUT_Water_Temperature-2025-Mar-06.txt*

Continuous WQ

Indicator: Water Quality

- Dissolved Oxygen
 - *Combined_WQ_WC_NUT_cont_Dissolved_Oxygen_AllRegions-2025-Mar-06.txt*
- Dissolved Oxygen Saturation
 - *Combined_WQ_WC_NUT_cont_Dissolved_Oxygen_Saturation_AllRegions-2025-Mar-06.txt*
- pH
 - *Combined_WQ_WC_NUT_cont_pH_AllRegions-2025-Mar-06.txt*
- Salinity
 - *Combined_WQ_WC_NUT_cont_Salinity_AllRegions-2025-Mar-06.txt*
- Water Temperature
 - *Combined_WQ_WC_NUT_cont_Water_Temperature_AllRegions-2025-Mar-06.txt*

Indicator: Water Clarity

- Turbidity
 - *Combined_WQ_WC_NUT_cont_Turbidity_AllRegions-2025-Mar-06.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	1040.22	9.16	253889	0	254	0.10
Presence/Absence	0	1.00	0.41	253852	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	8.30	0.10	144892	143	144	0.20
Nitrate (NO3)	0.00	0.96	0.02	11230	0	12	0.11
Nitrite (NO2)	0.00	0.30	0.00	42173	2	1	0.01
Nitrogen, organic	0.03	2.70	0.57	7121	6	7	0.18
NO2+3, Filtered	0.00	3.42	0.05	162570	150	163	0.19
Phosphate, Filtered (PO4)	-0.01	0.79	0.04	62056	51	63	0.18
Total Kjeldahl Nitrogen	0.00	4.74	4.26	119421	89	120	0.18
Total Nitrogen	0.00	4.12	0.51	145768	119	144	0.18
Total Nitrogen	0.00	2.77	0.38	86138	41	86	0.15
Total Phosphorus	0.00	0.73	0.16	166078	84	167	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	109.97	5.77	70033	4	71	0.11
Chlorophyll a, Uncorrected for Pheophytin	0.0	111.00	15.92	93446	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	695.32	26.69	28366	0	29	0.10
Light Extinction Coefficient	0.0	7.80	0.57	16194	13	17	0.19
Secchi Depth	0.1	18.90	1.37	352093	43	352	0.11
Total Suspended Solids	0.0	175.00	13.03	92997	18	92	0.12
Turbidity	0.0	125.87	4.88	317565	29	318	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	14.00	6.54	855115	815	832	0.19
Dissolved Oxygen Saturation	0.32	175.00	79.67	157046	158	158	0.20
pH	5.30	9.30	7.92	688128	645	596	0.18
Salinity	0.00	41.30	24.55	857216	0	852	0.10
Specific Conductivity	0.01	60.68	15.68	448494	398	449	0.19
Water Temperature	6.60	33.90	24.43	907188	882	839	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	13.50	6.11	14764089	5737	13996	0.13
Dissolved Oxygen Saturation	1.6	172.50	82.51	14865013	14219	14795	0.20
pH	5.0	9.00	7.80	15367801	13068	13971	0.18
Salinity	0.0	40.80	23.98	16256296	0	15455	0.10
Water Temperature	8.0	33.81	25.56	38554731	36104	38480	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	506	11.26	14686359	0	14649	0.1

Nekton

Low Quantile

Standard Length

Table 7: Flagged Values - Low Indicator Quantile: 1

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
101319	69	ANM2005070209	2005-07-14	0.9
106608	69	APM1998071401	1998-07-14	0.8
388031	69	APM1999101203	1999-10-12	0.7
346321	69	APM2000091204	2000-09-12	0.9
379142	69	APM2000121205	2000-12-12	0.9
102800	69	APM2001010701	2001-01-11	0.7
2169019	69	APM2001010701	2001-01-11	0.9
393557	69	APM2001010702	2001-01-11	0.9
2169021	69	APM2001010703	2001-01-11	0.9
320495	69	APM2001010706	2001-01-11	0.9
426216	69	APM2001010706	2001-01-11	0.9
666396	69	APM2001010706	2001-01-11	0.7
330593	69	APM2001020503	2001-02-07	0.7
303910	69	APM2001060707	2001-06-15	0.8
1737723	69	APM2001090406	2001-09-10	0.9
106497	69	APM2001090408	2001-09-10	0.9
246380	69	APM2002010307	2002-01-08	0.9
12370	69	APM2002010406	2002-01-09	0.9
372199	69	APM2002010406	2002-01-09	0.9
377323	69	APM2002010406	2002-01-09	0.8
378482	69	APM2002010407	2002-01-09	0.9
765523	69	APM2002010408	2002-01-09	0.9
103379	69	APM2002030207	2002-03-07	0.9
49649	69	APM2002080705	2002-08-14	0.9
1794058	69	APM2002091101	2002-09-30	0.9
257793	69	APM2002120507	2002-12-11	0.9
2299628	69	APM2002120507	2002-12-11	0.8
2352162	69	APM2002120508	2002-12-11	0.9
86824	69	APM2003010602	2003-01-14	0.9
2285420	69	APM2003011004	2003-01-22	0.9
76460	69	APM2003020801	2003-02-13	0.7
79226	69	APM2003030201	2003-03-10	0.9
338896	69	APM2003030606	2003-03-14	0.6
199867	69	APM2003030705	2003-03-18	0.9
1803261	69	APM2003060401	2003-06-10	0.5
177324	69	APM2003060903	2003-06-24	0.8
185273	69	APM2003060903	2003-06-24	0.7
182215	69	APM2003091107	2003-09-25	0.9
17271	69	APM2003110202	2003-11-04	0.9
346541	69	APM2003110208	2003-11-04	0.9
1778595	69	APM2003110208	2003-11-04	0.8
28765	69	APM2004010304	2004-01-08	0.9
16896	69	APM2004010305	2004-01-08	0.8
230930	69	APM2004010305	2004-01-08	0.9
422482	69	APM2004010404	2004-01-09	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
63006	69	APM2004051101	2004-05-20	0.9
211654	69	APM2004051101	2004-05-20	0.7
247874	69	APM2004051101	2004-05-20	0.9
255194	69	APM2004051101	2004-05-20	0.7
255709	69	APM2004051101	2004-05-20	0.9
258627	69	APM2004051101	2004-05-20	0.8
293108	69	APM2004051101	2004-05-20	0.8
59806	69	APM2004060401	2004-06-07	0.8
214954	69	APM2004060401	2004-06-07	0.9
258805	69	APM2004060401	2004-06-07	0.9
346077	69	APM2004060401	2004-06-07	0.7
359312	69	APM2004060401	2004-06-07	0.9
2266243	69	APM2004060401	2004-06-07	0.8
68672	69	APM2004070906	2004-07-19	0.9
206055	69	APM2004073401	2004-07-20	0.9
154117	69	APM2004080701	2004-08-20	0.9
273683	69	APM2004080701	2004-08-20	0.7
1792327	69	APM2004080701	2004-08-20	0.8
29572	69	APM2004091005	2004-09-24	0.9
498077	69	APM2004110106	2004-11-01	0.9
2321449	69	APM2004110106	2004-11-01	0.7
2441717	69	APM2004110106	2004-11-01	0.8
37188	69	APM2004110203	2004-11-03	0.8
1807326	69	APM2004110203	2004-11-03	0.9
345560	69	APM2004110204	2004-11-03	0.9
236914	69	APM2004110509	2004-11-15	0.9
272669	69	APM2004120402	2004-12-08	0.9
26608	69	APM2004120801	2004-12-16	0.9
260623	69	APM2004120801	2004-12-16	0.9
389371	69	APM2005050303	2005-05-09	0.9
353429	69	APM2005060103	2005-06-02	0.8
349212	69	APM2005060302	2005-06-07	0.8
1683606	69	APM2005080401	2005-08-09	0.9
22716	69	APM2005080501	2005-08-10	0.8
699960	69	APM2005080503	2005-08-10	0.9
24437	69	APM2005090101	2005-09-01	0.6
30838	69	APM2005090101	2005-09-01	0.5
2322560	69	APM2005090101	2005-09-01	0.6
2478084	69	APM2005090101	2005-09-01	0.9
63731	69	APM2005120305	2005-12-02	0.9
208103	69	APM2006061105	2006-06-20	0.9
1174	69	APM2006080701	2006-08-17	0.9
97495	69	APM2006080702	2006-08-17	0.9
1362	69	APM2006080708	2006-08-17	0.7
212405	69	APM2006080708	2006-08-17	0.9
4185	69	APM2006080904	2006-08-21	0.9
6325	69	APM2006080904	2006-08-21	0.9
10114	69	APM2006080904	2006-08-21	0.9
12134	69	APM2006080904	2006-08-21	0.8
95975	69	APM2006081301	2006-08-31	0.9
1055	69	APM2006090201	2006-09-06	0.8
3078	69	APM2006090704	2006-09-15	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
18337	69	APM2006100506	2006-10-10	0.9
98082	69	APM2006110503	2006-11-09	0.9
126586	69	APM2006110504	2006-11-09	0.9
2415326	69	APM2006110504	2006-11-09	0.8
146145	69	APM2006110906	2006-11-20	0.8
291588	69	APM2006110906	2006-11-20	0.7
135208	69	APM2006120810	2006-12-12	0.9
521508	69	APM2007020407	2007-02-12	0.9
194836	69	APM2007060603	2007-06-12	0.9
237793	69	APM2007060603	2007-06-12	0.8
514477	69	APM2007060603	2007-06-12	0.9
2403311	69	APM2007060604	2007-06-12	0.8
310452	69	APM2007070401	2007-07-09	0.9
196907	69	APM2007070602	2007-07-12	0.9
2549780	69	APM2007070602	2007-07-12	0.8
288959	69	APM2007070901	2007-07-18	0.9
688244	69	APM2007070902	2007-07-18	0.9
357502	69	APM2007080209	2007-08-03	0.9
2451280	69	APM2007080209	2007-08-03	0.8
289676	69	APM2007080210	2007-08-03	0.9
77633	69	APM2007080902	2007-08-15	0.9
522809	69	APM2007080902	2007-08-15	0.8
323746	69	APM2007080905	2007-08-15	0.9
359691	69	APM2007080907	2007-08-15	0.8
818129	69	APM2007080908	2007-08-15	0.9
224578	69	APM2007090402	2007-09-10	0.8
247080	69	APM2007090505	2007-09-11	0.9
2433460	69	APM2007100501	2007-10-10	0.9
253631	69	APM2007110701	2007-11-15	0.7
314969	69	APM2007110704	2007-11-15	0.9
308088	69	APM2007111106	2007-11-28	0.8
378545	69	APM2007111106	2007-11-28	0.9
138380	69	APM2007111108	2007-11-28	0.8
387814	69	APM2007111108	2007-11-28	0.7
1808807	69	APM2007111108	2007-11-28	0.9
2431767	69	APM2007120201	2007-12-04	0.9
2431773	69	APM2007120709	2007-12-11	0.9
363492	69	APM2007121003	2007-12-18	0.9
242744	69	APM2008010901	2008-01-22	0.9
209174	69	APM2008020502	2008-02-11	0.9
141034	69	APM2008030304	2008-03-06	0.8
387826	69	APM2008030304	2008-03-06	0.9
339764	69	APM2008050807	2008-05-19	0.9
205912	69	APM2008051304	2008-05-28	0.9
143910	69	APM2008080210	2008-08-06	0.9
1771357	69	APM2008081003	2008-08-20	0.7
2509091	69	APM2008081003	2008-08-20	0.8
77334	69	APM2008081004	2008-08-20	0.8
18555	69	APM2008081307	2008-08-28	0.9
65681	69	APM2008081307	2008-08-28	0.9
211468	69	APM2008091002	2008-09-17	0.7
106214	69	APM2008101004	2008-10-17	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
138871	69	APM2008101004	2008-10-17	0.8
2453426	69	APM2008101004	2008-10-17	0.9
190892	69	APM2008101006	2008-10-17	0.8
219625	69	APM2008101006	2008-10-17	0.7
219626	69	APM2008101006	2008-10-17	0.9
274635	69	APM2008110301	2008-11-04	0.9
274979	69	APM2008110301	2008-11-04	0.7
228350	69	APM2008110304	2008-11-04	0.7
237644	69	APM2008110304	2008-11-04	0.9
270667	69	APM2008110306	2008-11-04	0.8
549632	69	APM2008110306	2008-11-04	0.9
231496	69	APM2008110307	2008-11-04	0.8
1788015	69	APM2008110307	2008-11-04	0.9
42425	69	APM2008120802	2008-12-16	0.9
47919	69	APM2008120802	2008-12-16	0.8
41097	69	APM2008120803	2008-12-16	0.7
294434	69	APM2008120803	2008-12-16	0.9
285019	69	APM2008120805	2008-12-16	0.9
106406	69	APM2008120806	2008-12-16	0.9
252982	69	APM2009010705	2009-01-15	0.8
417773	69	APM2009010707	2009-01-15	0.9
223645	69	APM2009010708	2009-01-15	0.7
2514303	69	APM2009020604	2009-02-12	0.9
171454	69	APM2009020904	2009-02-24	0.9
2585722	69	APM2009030403	2009-03-10	0.9
198738	69	APM2009040604	2009-04-15	0.9
139867	69	APM2009050205	2009-05-06	0.9
209560	69	APM2009050507	2009-05-14	0.9
302332	69	APM2009051105	2009-05-27	0.9
2488956	69	APM2009060102	2009-06-01	0.8
116171	69	APM2009060601	2009-06-11	0.9
322374	69	APM2009061102	2009-06-24	0.9
2764835	69	APM2009070701	2009-07-16	0.9
45617	69	APM2009071004	2009-07-28	0.9
264025	69	APM2009071005	2009-07-28	0.9
440076	69	APM2009090502	2009-09-16	0.9
185494	69	APM2009090907	2009-09-24	0.9
2492173	69	APM2009090907	2009-09-24	0.8
208719	69	APM2009100808	2009-10-14	0.9
1787282	69	APM2009100808	2009-10-14	0.8
91794	69	APM2009110709	2009-11-17	0.9
281729	69	APM2009110802	2009-11-18	0.8
285314	69	APM2009110802	2009-11-18	0.9
90023	69	APM2009110807	2009-11-18	0.9
303063	69	APM2009110807	2009-11-18	0.8
294795	69	APM2009120503	2009-12-09	0.8
2589762	69	APM2009120503	2009-12-09	0.9
282466	69	APM2009120504	2009-12-09	0.9
77227	69	APM2009120601	2009-12-14	0.9
1793593	69	APM2009120601	2009-12-14	0.8
2599206	69	APM2009120601	2009-12-14	0.7
115892	69	APM2009120602	2009-12-14	0.9

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152490	69	APM2010010303	2010-01-11	0.8
281277	69	APM2010010303	2010-01-11	0.9
288479	69	APM2010010303	2010-01-11	0.6
1629689	69	APM2010010303	2010-01-11	0.8
1629690	69	APM2010010303	2010-01-11	0.5
1629691	69	APM2010010303	2010-01-11	0.7
143307	69	APM2010010304	2010-01-11	0.9
51623	69	APM2010010601	2010-01-19	0.9
171875	69	APM2010010601	2010-01-19	0.7
142311	69	APM2010010602	2010-01-19	0.8
247797	69	APM2010010602	2010-01-19	0.9
291699	69	APM2010010603	2010-01-19	0.8
574006	69	APM2010010603	2010-01-19	0.9
13337	69	APM2010010605	2010-01-19	0.8
286867	69	APM2010010605	2010-01-19	0.9
228379	69	APM2010010606	2010-01-19	0.9
81843	69	APM2010030405	2010-03-05	0.9
1784380	69	APM2010030608	2010-03-09	0.9
246492	69	APM2010030801	2010-03-19	0.9
153632	69	APM2010051004	2010-05-18	0.9
125272	69	APM2010051205	2010-05-20	0.6
1788009	69	APM2010051205	2010-05-20	0.9
207774	69	APM2010100605	2010-10-11	0.9
2500468	69	APM2010100608	2010-10-11	0.8
30362	69	APM2010101202	2010-10-27	0.8
173677	69	APM2010110206	2010-11-02	0.7
2515583	69	APM2010110206	2010-11-02	0.9
140024	69	APM2010120809	2010-12-15	0.9
2610812	69	APM2010120809	2010-12-15	0.9
1692096	69	APM2011030710	2011-03-16	0.8
2610989	69	APM2011040504	2011-04-08	0.9
84822	69	APM2011060602	2011-06-10	0.9
132342	69	APM2011080808	2011-08-15	0.9
2808893	69	APM2011090202	2011-09-08	0.9
155963	69	APM2011090703	2011-09-15	0.9
298903	69	APM2011100505	2011-10-12	0.8
308123	69	APM2011100505	2011-10-12	0.9
1751282	69	APM2011110106	2011-11-01	0.7
1760095	69	APM2011110208	2011-11-02	0.8
67970	69	APM2011120608	2011-12-08	0.7
314494	69	APM2011120608	2011-12-08	0.9
235897	69	APM2012010204	2012-01-05	0.9
124700	69	APM2012010205	2012-01-05	0.9
140349	69	APM2012010607	2012-01-17	0.8
232803	69	APM2012010607	2012-01-17	0.7
1772182	69	APM2012010607	2012-01-17	0.8
35824	69	APM2012020204	2012-02-02	0.8
173022	69	APM2012020204	2012-02-02	0.9
119832	69	APM2012040203	2012-04-03	0.8
726338	69	APM2012040203	2012-04-03	0.9
2546657	69	APM2012040203	2012-04-03	0.7

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121918	69	APM2012040207	2012-04-03	0.9
298552	69	APM2012050108	2012-05-01	0.7
261032	69	APM2012050209	2012-05-02	0.9
119869	69	APM2012050304	2012-05-03	0.9
137452	69	APM2012050901	2012-05-18	0.9
123904	69	APM2012060602	2012-06-12	0.8
147269	69	APM2012060602	2012-06-12	0.9
1657597	69	APM2012060602	2012-06-12	0.7
1741908	69	APM2012060602	2012-06-12	0.6
2815453	69	APM2012060602	2012-06-12	0.9
142061	69	APM2012060901	2012-06-14	0.8
126541	69	APM2012060905	2012-06-14	0.6
15837	69	APM2012070902	2012-07-23	0.8
186924	69	APM2012071401	2012-07-31	0.8
132636	69	APM2012080104	2012-08-02	0.9
181552	69	APM2012090605	2012-09-14	0.9
393811	69	APM2012100709	2012-10-16	0.8
2713312	69	APM2012110608	2012-11-07	0.9
177658	69	APM2012110903	2012-11-15	0.8
390984	69	APM2012110903	2012-11-15	0.9
507329	69	APM2012110903	2012-11-15	0.7
519490	69	APM2012110903	2012-11-15	0.5
2766054	69	APM2012111003	2012-11-16	0.9
30136	69	APM2013010601	2013-01-14	0.9
230785	69	APM2013010705	2013-01-15	0.9
1785006	69	APM2013030701	2013-03-15	0.9
2623324	69	APM2013040401	2013-04-08	0.9
2224	69	APM2013040402	2013-04-08	0.8
42811	69	APM2013080905	2013-08-12	0.9
2257	69	APM2013090501	2013-09-12	0.9
187454	69	APM2013090501	2013-09-12	0.8
50286	69	APM2013090502	2013-09-12	0.7
1947	69	APM2013090704	2013-09-13	0.8
2828818	69	APM2013110304	2013-11-05	0.9
212476	69	APM2013110606	2013-11-12	0.9
2829646	69	APM2013120103	2013-12-02	0.9
131241	69	APM2013120106	2013-12-02	0.9
234006	69	APM2013120106	2013-12-02	0.9
473846	69	APM2013120106	2013-12-02	0.8
2774883	69	APM2013120106	2013-12-02	0.7
385474	69	APM2013120407	2013-12-05	0.8
385475	69	APM2013120407	2013-12-05	0.9
40309	69	APM2013120808	2013-12-11	0.8
1776638	69	APM2014020805	2014-02-14	0.9
2776156	69	APM2014070801	2014-07-11	0.8
2839488	69	APM2014071505	2014-07-24	0.7
148426	69	APM2014080702	2014-08-11	0.8
2894258	69	APM2014090302	2014-09-04	0.8
1780613	69	APM2014090507	2014-09-10	0.8
548078	69	APM2014100204	2014-10-02	0.9
157299	69	APM2014100303	2014-10-03	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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225077	69	APM2014100303	2014-10-03	0.9
267993	69	APM2014100303	2014-10-03	0.8
269985	69	APM2014100303	2014-10-03	0.8
273839	69	APM2014100303	2014-10-03	0.7
357074	69	APM2014100803	2014-10-15	0.9
168744	69	APM2014101104	2014-10-23	0.9
439290	69	APM2014101104	2014-10-23	0.8
2972757	69	APM2014101104	2014-10-23	0.7
188633	69	APM2014120705	2014-12-11	0.9
354885	69	APM2015050405	2015-05-06	0.9
360488	69	APM2015050505	2015-05-07	0.9
470469	69	APM2015050505	2015-05-07	0.8
2865565	69	APM2015050505	2015-05-07	0.9
367567	69	APM2015060106	2015-06-01	0.9
264503	69	APM2015070204	2015-07-02	0.6
388928	69	APM2015070204	2015-07-02	0.8
247542	69	APM2015090601	2015-09-09	0.9
326818	69	APM2015090605	2015-09-09	0.9
2736162	69	APM2015090605	2015-09-09	0.7
2736239	69	APM2015090906	2015-09-16	0.7
2873812	69	APM2015090906	2015-09-16	0.9
2963904	69	APM2015090906	2015-09-16	0.8
348363	69	APM2015110101	2015-11-02	0.9
1812618	69	APM2015120306	2015-12-07	0.8
2738226	69	APM2015120402	2015-12-08	0.9
805280	69	APM2016010505	2016-01-13	0.8
30766	69	APM2016020202	2016-02-01	0.9
219954	69	APM2016020202	2016-02-01	0.8
28405	69	APM2016020203	2016-02-01	0.6
33680	69	APM2016020203	2016-02-01	0.9
1831122	69	APM2016020203	2016-02-01	0.7
2758827	69	APM2016020203	2016-02-01	0.8
31865	69	APM2016020204	2016-02-01	0.9
530413	69	APM2016020204	2016-02-01	0.7
753607	69	APM2016020406	2016-02-02	0.7
1812139	69	APM2016040507	2016-04-07	0.9
428718	69	APM2016060804	2016-06-09	0.8
39774	69	APM2016061103	2016-06-15	0.7
99981	69	APM2016061103	2016-06-15	0.8
862000	69	APM2016061103	2016-06-15	0.9
1803662	69	APM2016061103	2016-06-15	0.6
260703	69	APM2016080103	2016-08-02	0.8
1831231	69	APM2016100503	2016-10-10	0.7
27992	69	APM2016120205	2016-12-02	0.9
527401	69	APM2016120402	2016-12-06	0.8
2901181	69	APM2016120608	2016-12-08	0.9
602755	69	APM2016120704	2016-12-12	0.8
2901294	69	APM2017010306	2017-01-05	0.8
20212	69	APM2017010401	2017-01-06	0.9
61933	69	APM2017010401	2017-01-06	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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129158	69	APM2017020110	2017-02-01	0.9
279594	69	APM2017020409	2017-02-02	0.9
721248	69	APM2017030306	2017-03-07	0.8
104168	69	APM2017040107	2017-04-04	0.9
465923	69	APM2017040107	2017-04-04	0.9
12077	69	APM2017060405	2017-06-05	0.6
597217	69	APM2017061302	2017-06-23	0.9
1718203	69	APM2017080304	2017-08-02	0.8
255978	69	APM2017090503	2017-09-13	0.6
217153	69	APM2017090504	2017-09-13	0.9
90229	69	APM2017090608	2017-09-13	0.9
95646	69	APM2017090801	2017-09-14	0.8
250329	69	APM2017110105	2017-11-01	0.8
262503	69	APM2017110105	2017-11-01	0.7
410960	69	APM2017110105	2017-11-01	0.9
414909	69	APM2017110105	2017-11-01	0.8
1424213	69	APM2018010805	2018-01-16	0.8
1548715	69	APM2018010805	2018-01-16	0.9
1370148	69	APM2018020701	2018-02-14	0.8
1987241	69	APM2018020701	2018-02-14	0.9
1757464	69	APM2018020805	2018-02-14	0.9
1546530	69	APM2018030104	2018-03-05	0.9
1563560	69	APM2018080708	2018-08-13	0.8
1529507	69	APM2018100101	2018-10-01	0.7
1747521	69	APM2018100101	2018-10-01	0.9
1980373	69	APM2018100101	2018-10-01	0.8
1511148	69	APM2018101001	2018-10-23	0.9
1568883	69	APM2018101001	2018-10-23	0.5
1438871	69	APM2018110601	2018-11-07	0.8
1574398	69	APM2018110601	2018-11-07	0.7
2049496	69	APM2018110602	2018-11-07	0.9
1565592	69	APM2018120601	2018-12-11	0.9
1758472	69	APM2018120601	2018-12-11	0.9
1517363	69	APM2019010201	2019-01-03	0.9
1758793	69	APM2019010201	2019-01-03	0.8
1502988	69	APM2019010202	2019-01-03	0.8
1750438	69	APM2019010202	2019-01-03	0.9
1989761	69	APM2019010202	2019-01-03	0.9
2052782	69	APM2019010202	2019-01-03	0.8
1452588	69	APM2019010203	2019-01-03	0.8
1452590	69	APM2019010203	2019-01-03	0.9
1471121	69	APM2019010203	2019-01-03	0.7
1514116	69	APM2019010203	2019-01-03	0.7
1541294	69	APM2019010203	2019-01-03	0.5
1566709	69	APM2019010203	2019-01-03	0.8
1742412	69	APM2019010203	2019-01-03	0.9
1452626	69	APM2019010502	2019-01-09	0.9
1517006	69	APM2019020207	2019-02-05	0.9
2052797	69	APM2019020207	2019-02-05	0.8
1423088	69	APM2019020804	2019-02-21	0.8
1521996	69	APM2019070406	2019-07-08	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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1750336	69	APM2019080504	2019-08-06	0.9
1435049	69	APM2019080601	2019-08-06	0.7
1544447	69	APM2019080705	2019-08-07	0.7
1535649	69	APM2019080802	2019-08-08	0.7
1983923	69	APM2019080802	2019-08-08	0.8
1453114	69	APM2019081402	2019-08-20	0.7
1752490	69	APM2019081402	2019-08-20	0.9
1453163	69	APM2019090201	2019-09-05	0.9
1549081	69	APM2019090201	2019-09-05	0.8
2108752	69	APM2019090201	2019-09-05	0.9
1755294	69	APM2019090403	2019-09-06	0.5
2099994	69	APM2019090403	2019-09-06	0.8
1553277	69	APM2019090506	2019-09-09	0.9
1550146	69	APM2019090703	2019-09-07	0.9
1753973	69	APM2019110101	2019-11-04	0.9
1527956	69	APM2019110701	2019-11-15	0.9
1988165	69	APM2019110701	2019-11-15	0.8
1985386	69	APM2019120202	2019-12-02	0.9
1988213	69	APM2019120202	2019-12-02	0.7
1522046	69	APM2019120203	2019-12-02	0.8
2202925	69	APM2019120303	2019-12-03	0.8
1529143	69	APM2020010105	2020-01-06	0.9
1572882	69	APM2020010105	2020-01-06	0.8
1539745	69	APM2020010106	2020-01-06	0.9
1279113	69	APM2020010210	2020-01-06	0.9
1466989	69	APM2020010210	2020-01-06	0.8
1545631	69	APM2020010210	2020-01-06	0.7
1273063	69	APM2020010212	2020-01-06	0.9
1479843	69	APM2020010302	2020-01-07	0.7
1573182	69	APM2020010302	2020-01-07	0.9
1562189	69	APM2020040201	2020-04-01	0.9
1945751	69	APM2020060403	2020-06-10	0.9
1477164	69	APM2020070901	2020-07-16	0.7
1954288	69	APM2020070901	2020-07-16	0.9
1559849	69	APM2020090706	2020-09-25	0.9
1973444	69	APM2020100205	2020-10-06	0.9
2276807	69	APM2021050801	2021-05-25	0.6
2313517	69	APM2021050801	2021-05-25	0.7
2500536	69	APM2021050801	2021-05-25	0.8
2713645	69	APM2021050801	2021-05-25	0.9
2677323	69	APM2021060602	2021-06-08	0.9
2788781	69	APM2021070403	2021-07-08	0.9
2321418	69	APM2021070404	2021-07-08	0.8
2441693	69	APM2021070404	2021-07-08	0.7
2441694	69	APM2021070404	2021-07-08	0.9
2688045	69	APM2021070404	2021-07-08	0.9
2766658	69	APM2021070404	2021-07-08	0.8
2785082	69	APM2021070404	2021-07-08	0.7
2997278	69	APM2021070404	2021-07-08	0.6
1995972	69	APM2021070405	2021-07-08	0.8
2766757	69	APM2021070405	2021-07-08	0.7

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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3005741	69	APM2021100102	2021-10-01	0.9
2733100	69	APM2022010201	2022-01-13	0.7
2857626	69	APM2022010202	2022-01-13	0.8
2693925	69	APM2022010303	2022-01-19	0.9
2378144	69	APM2022060304	2022-06-02	0.8
2346300	69	APM2022070205	2022-07-05	0.8
2043658	69	APM2022070801	2022-07-19	0.5
2629080	69	APM2022070801	2022-07-19	0.8
2821948	69	APM2022070801	2022-07-19	0.7
2933823	69	APM2022070801	2022-07-19	0.9
3077901	69	APM2022070801	2022-07-19	0.6
2601264	69	APM2022071004	2022-07-22	0.8
2907100	69	APM2022071004	2022-07-22	0.9
2037908	69	APM2022071202	2022-07-25	0.9
2288313	69	APM2022080202	2022-08-05	0.7
3010889	69	APM2022080203	2022-08-05	0.6
2437937	69	APM2022110503	2022-11-03	0.8
2538995	69	APM2022110503	2022-11-03	0.7
2745733	69	APM2022110503	2022-11-03	0.9
2942838	69	APM2022110503	2022-11-03	0.6
2724276	69	APM2022110706	2022-11-07	0.9
2915289	69	APM2022110706	2022-11-07	0.8
111412	69	BBM2009070103	2009-07-10	0.9
425849	69	BBM2009070108	2009-07-10	0.9
425853	69	BBM2009070203	2009-07-13	0.8
1814216	69	BBM2009100107	2009-10-26	0.8
512147	69	BBM2010050303	2010-05-06	0.8
1801998	69	BBM2011050201	2011-05-10	0.3
691349	69	BBM2013110201	2013-11-07	0.9
2466379	69	BBM2013110201	2013-11-07	0.8
744538	69	BBM2014060103	2014-06-17	0.9
488435	69	BBM2014060110	2014-06-17	0.9
2452538	69	BBM2014070303	2014-07-18	0.9
714597	69	BBM2014070407	2014-07-22	0.9
499163	69	BBM2015110202	2015-11-16	0.9
1211102	69	BBM2019060102	2019-06-14	0.9
1208700	69	BBM2019060115	2019-06-14	0.9
1746017	69	BBM2019070303	2019-07-23	0.9
2192806	69	BBM2020090106	2020-09-03	0.9
2825046	69	BBM2021070105	2021-07-08	0.9
1792174	69	CHM1989050906	1989-05-09	0.9
1113209	69	CHM1991051307	1991-05-13	0.9
1802487	69	CHM1991100101	1991-10-01	0.9
818938	69	CHM1991102110	1991-10-21	0.9
469161	69	CHM1992102405	1992-10-24	0.6
985442	69	CHM1992102605	1992-10-26	0.9
418223	69	CHM1992102701	1992-10-27	0.8
2498654	69	CHM1992102704	1992-10-27	0.8
497161	69	CHM1992102706	1992-10-27	0.9
503631	69	CHM1992102707	1992-10-27	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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495420	69	CHM1994100403	1994-10-04	0.9
1139586	69	CHM1994100403	1994-10-04	0.6
1803796	69	CHM1994100403	1994-10-04	0.7
389553	69	CHM1994100406	1994-10-04	0.6
532968	69	CHM1994100406	1994-10-04	0.8
2532220	69	CHM1994100406	1994-10-04	0.5
415944	69	CHM1994100407	1994-10-04	0.9
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368107	69	CHM1999100502	1999-10-05	0.7
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2695086	69	CHM2007060405	2007-06-13	0.9
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363644	69	CHM2010050906	2010-05-13	0.9
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400184	69	CHM2010060211	2010-06-09	0.6
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658579	69	CHM2010060211	2010-06-09	0.5
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1014550	69	CHM2010100404	2010-10-15	0.9
2777028	69	CHM2010100404	2010-10-15	0.6
426348	69	CHM2010100409	2010-10-15	0.9
427543	69	CHM2011041303	2011-04-22	0.9
817108	69	CHM2011041303	2011-04-22	0.6
2706639	69	CHM2011041303	2011-04-22	0.8
2859295	69	CHM2011041303	2011-04-22	0.7
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668774	69	CHM2012080607	2012-08-13	0.8
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2882826	69	CHM2012090506	2012-09-18	0.8
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1939792	69	CHM2020100201	2020-10-27	0.9
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2686376	69	CHM2020100201	2020-10-27	0.9
2037649	69	CHM2020100406	2020-10-16	0.8
2664453	69	CHM2020100801	2020-10-02	0.7
3134736	69	CHM2022070602	2022-07-08	0.9
2638822	69	CHM2022101304	2022-10-24	0.9
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397487	69	CKM1996071703	1996-07-17	0.8
411997	69	CKM1996080201	1996-08-02	0.9
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1388225	69	CKM1996101104	1996-10-11	0.8
1331516	69	CKM1997050512	1997-05-05	0.7
572596	69	CKM1997062305	1997-06-23	0.9
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616163	69	CKM2001090903	2001-09-20	0.9
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2375670	69	CKM2004050703	2004-05-17	0.8
2388521	69	CKM2004050905	2004-05-25	0.8
1655416	69	CKM2005050403	2005-05-09	0.7
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957038	69	CKM2006070501	2006-07-06	0.9
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948179	69	CKM2007060704	2007-06-14	0.9
988218	69	CKM2007080702	2007-08-14	0.9
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2407202	69	CKM2007090101	2007-09-04	0.9

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1192282	69	CKM2008080205	2008-08-04	0.9
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1687526	69	CKM2009080702	2009-08-18	0.8
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1254913	69	CKM2010070702	2010-07-14	0.9
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1719050	69	CKM2010070704	2010-07-14	0.7
2451752	69	CKM2010070704	2010-07-14	0.6
567719	69	CKM2011050707	2011-05-12	0.7
1197431	69	CKM2011090606	2011-09-12	0.9
1130897	69	CKM2012010502	2012-01-10	0.9
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803200	69	CKM2012070802	2012-07-13	0.9
697433	69	CKM2012070803	2012-07-13	0.8
1340717	69	CKM2012080406	2012-08-06	0.9
1952582	69	CKM2013060605	2013-06-18	0.9
2510515	69	CKM2013060605	2013-06-18	0.8
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1336516	69	CKM2013060606	2013-06-18	0.9
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1326106	69	CKM2014060304	2014-06-03	0.9
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1717110	69	CKM2015020605	2015-02-09	0.8
820394	69	CKM2016090401	2016-09-08	0.8
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538077	69	CKM2016120608	2016-12-09	0.8
320840	69	CKM2017050805	2017-05-17	0.7
1068886	69	CKM2017080702	2017-08-11	0.4
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1706828	69	CKM2018010201	2018-01-09	0.9
2743236	69	CKM2018060505	2018-06-07	0.8
1281185	69	CKM2018090804	2018-09-12	0.9
1167934	69	CKM2019060807	2019-06-17	0.7
1441158	69	CKM2019060807	2019-06-17	0.8
1152547	69	CKM2019070705	2019-07-09	0.9
1286987	69	CKM2019080705	2019-08-08	0.9
1374110	69	CZM2006020107	2006-02-07	0.9
1307888	69	CZM2007070104	2007-07-31	0.9
1156935	69	HIM2010090101	2010-09-16	0.9
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2607356	69	IRM2003020309	2003-02-06	0.9
901258	69	IRM2003030408	2003-03-11	0.9
1017333	69	IRM2003070201	2003-07-02	0.8
868960	69	IRM2003070503	2003-07-08	0.8
1028445	69	IRM2004010605	2004-01-20	0.8
2595777	69	IRM2004010605	2004-01-20	0.9
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1269576	69	IRM2005100402	2005-10-11	0.9
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1662310	69	IRM2006070105	2006-07-03	0.9
1239256	69	IRM2006090306	2006-09-08	0.8
1194907	69	IRM2006090902	2006-09-22	0.9
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536884	69	IRM2013091303	2013-09-24	0.9
522731	69	IRM2013110405	2013-11-05	0.9
553132	69	IRM2014020108	2014-02-03	0.8
495501	69	IRM2014020702	2014-02-11	0.6
1189550	69	IRM2014040901	2014-04-15	0.9
538338	69	IRM2014051101	2014-05-13	0.9
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481171	69	IRM2014091302	2014-09-19	0.8
1364196	69	IRM2014101406	2014-10-16	0.9
1305353	69	IRM2015040906	2015-04-14	0.9
469550	69	IRM2015041402	2015-04-21	0.8
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501371	69	IRM2015051301	2015-05-19	0.9

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1877364	69	IRM2016091103	2016-09-28	0.9
535246	69	IRM2016091105	2016-09-28	0.9
620957	69	IRM2016120707	2016-12-12	0.9
540261	69	IRM2017010306	2017-01-09	0.9
613889	69	IRM2017010306	2017-01-09	0.8
1460472	69	IRM2017030405	2017-03-06	0.9
3030354	69	IRM2017030408	2017-03-06	0.9
1874301	69	IRM2017060206	2017-06-02	0.9
3040154	69	IRM2017081101	2017-08-18	0.8
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872915	69	IRM2017091203	2017-09-25	0.9
1634847	69	IRM2017100108	2017-10-02	0.9
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2381243	69	IRM2018020707	2018-02-21	0.9
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1560040	69	IRM2018050802	2018-05-17	0.8
2176651	69	IRM2018050802	2018-05-17	0.9
2189484	69	IRM2018070503	2018-07-09	0.9
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1587126	69	IRM2020120402	2020-12-07	0.6
1597776	69	IRM2020120402	2020-12-07	0.9
1622061	69	IRM2020120402	2020-12-07	0.8
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1484456	69	JXM2002090804	2002-09-19	0.8
1583879	69	JXM2002120503	2002-12-16	0.8
1587470	69	JXM2002120503	2002-12-16	0.9
2099275	69	JXM2003030206	2003-03-05	0.9
673770	69	JXM2003050503	2003-05-13	0.9
879181	69	JXM2003050601	2003-05-15	0.9
690228	69	JXM2003050602	2003-05-15	0.8
722079	69	JXM2003110305	2003-11-12	0.9
791396	69	JXM2003110308	2003-11-12	0.9

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863144	69	JXM2004110307	2004-11-04	0.9
903923	69	JXM2004110509	2004-11-10	0.8
878132	69	JXM2004111104	2004-11-23	0.9
1852694	69	JXM2004111104	2004-11-23	0.8
875867	69	JXM2004120207	2004-12-02	0.9
894684	69	JXM2004120207	2004-12-02	0.8
653333	69	JXM2004120208	2004-12-02	0.7
852014	69	JXM2004120208	2004-12-02	0.9
2122008	69	JXM2004120208	2004-12-02	0.8
653468	69	JXM2004120209	2004-12-02	0.9
665312	69	JXM2004120209	2004-12-02	0.7
665313	69	JXM2004120209	2004-12-02	0.8
1851520	69	JXM2004120209	2004-12-02	0.6
658956	69	JXM2004120604	2004-12-09	0.9
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929653	69	JXM2005060708	2005-06-20	0.5
2122756	69	JXM2005080501	2005-08-08	0.8
760450	69	JXM2005090404	2005-09-19	0.9
2196866	69	JXM2005090505	2005-09-09	0.9
1884951	69	JXM2005100309	2005-10-26	0.8
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924530	69	JXM2005110310	2005-11-09	0.9
1131955	69	JXM2005110310	2005-11-09	0.8
911843	69	JXM2005120202	2005-12-13	0.7
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903848	69	JXM2006070303	2006-07-14	0.7
1003134	69	JXM2006070402	2006-07-20	0.7
967190	69	JXM2006100403	2006-10-26	0.8
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766852	69	JXM2007110506	2007-11-13	0.9
920748	69	JXM2007110506	2007-11-13	0.7
1068552	69	JXM2007110506	2007-11-13	0.8
922906	69	JXM2008020406	2008-02-21	0.9
1053199	69	JXM2008020406	2008-02-21	0.9
2160267	69	JXM2008030402	2008-03-17	0.9
1114271	69	JXM2008050403	2008-05-08	0.8
922326	69	JXM2008060305	2008-06-06	0.9
946396	69	JXM2008120204	2008-12-08	0.9
989802	69	JXM2008120204	2008-12-08	0.6
402308	69	JXM2009010206	2009-01-09	0.9
411034	69	JXM2009010208	2009-01-09	0.9
782752	69	JXM2009010305	2009-01-12	0.9
1012174	69	JXM2009010305	2009-01-12	0.9
472731	69	JXM2009080201	2009-08-24	0.7
476466	69	JXM2009080201	2009-08-24	0.8
488772	69	JXM2009080201	2009-08-24	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
713249	69	JXM2009080201	2009-08-24	0.7
797296	69	JXM2009080201	2009-08-24	0.9
469481	69	JXM2010020306	2010-02-02	0.9
823717	69	JXM2010020306	2010-02-02	0.9
1320546	69	JXM2010040407	2010-04-20	0.9
469031	69	JXM2010050405	2010-05-18	0.6
582878	69	JXM2010050405	2010-05-18	0.6
591119	69	JXM2010050405	2010-05-18	0.7
597082	69	JXM2010050405	2010-05-18	0.9
865685	69	JXM2010050405	2010-05-18	0.9
2204580	69	JXM2010050405	2010-05-18	0.8
465714	69	JXM2010060302	2010-06-02	0.8
1841276	69	JXM2010081303	2010-08-27	0.9
456973	69	JXM2010090208	2010-09-09	0.9
1694874	69	JXM2010090403	2010-09-08	0.9
2205066	69	JXM2010100209	2010-10-08	0.9
1208115	69	JXM2010111203	2010-11-23	0.9
1874774	69	JXM2011020202	2011-02-03	0.8
458045	69	JXM2011020508	2011-02-23	0.8
841520	69	JXM2011081303	2011-08-19	0.9
590394	69	JXM2011081305	2011-08-19	0.7
819756	69	JXM2011081305	2011-08-19	0.8
897136	69	JXM2011081305	2011-08-19	0.9
2272987	69	JXM2012010301	2012-01-25	0.9
735388	69	JXM2012010404	2012-01-05	0.9
1156778	69	JXM2012030304	2012-03-28	0.9
755378	69	JXM2012030409	2012-03-16	0.9
1063616	69	JXM2012040401	2012-04-10	0.9
559817	69	JXM2012070305	2012-07-23	0.9
575803	69	JXM2012070305	2012-07-23	0.8
569543	69	JXM2012071301	2012-07-31	0.7
1338172	69	JXM2012071301	2012-07-31	0.9
1398700	69	JXM2012071301	2012-07-31	0.8
2165996	69	JXM2012071301	2012-07-31	0.7
661057	69	JXM2012091302	2012-09-13	0.9
1143632	69	JXM2012091302	2012-09-13	0.8
1036567	69	JXM2012100409	2012-10-15	0.8
2166285	69	JXM2013020201	2013-02-27	0.8
1056973	69	JXM2013020406	2013-02-22	0.8
774201	69	JXM2013080306	2013-08-27	0.9
1196631	69	JXM2013080306	2013-08-27	0.8
1851046	69	JXM2013080306	2013-08-27	0.9
633610	69	JXM2013090503	2013-09-23	0.9
1119611	69	JXM2013110509	2013-11-19	0.7
1934937	69	JXM2013110509	2013-11-19	0.9
583656	69	JXM2014050408	2014-05-29	0.9
1821033	69	JXM2014070304	2014-07-10	0.8
2167313	69	JXM2014070304	2014-07-10	0.6
2211163	69	JXM2014070304	2014-07-10	0.9
640618	69	JXM2014100503	2014-10-02	0.7
795815	69	JXM2015020402	2015-02-09	0.9
477699	69	JXM2015040503	2015-04-28	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
666018	69	JXM2015040503	2015-04-28	0.9
660326	69	JXM2015040506	2015-04-28	0.9
1308794	69	JXM2015040506	2015-04-28	0.7
778026	69	JXM2015090308	2015-09-22	0.8
1203991	69	JXM2015110406	2015-11-23	0.9
2223364	69	JXM2016050601	2016-05-04	0.8
757565	69	JXM2016060308	2016-06-02	0.7
802946	69	JXM2016060308	2016-06-02	0.6
1603807	69	JXM2016060308	2016-06-02	0.7
2275856	69	JXM2016060308	2016-06-02	0.9
824790	69	JXM2016060309	2016-06-02	0.7
826207	69	JXM2016060309	2016-06-02	0.9
817961	69	JXM2016100504	2016-10-14	0.8
669412	69	JXM2017030202	2017-03-16	0.9
1383095	69	JXM2017030202	2017-03-16	0.7
2141281	69	JXM2017030202	2017-03-16	0.8
781821	69	JXM2017050303	2017-05-01	0.9
1454265	69	JXM2017050303	2017-05-01	0.5
1867792	69	JXM2017050303	2017-05-01	0.7
1867793	69	JXM2017050303	2017-05-01	0.8
2289338	69	JXM2017090201	2017-09-07	0.8
725113	69	JXM2017090407	2017-09-21	0.7
478053	69	JXM2017090508	2017-09-06	0.9
577172	69	JXM2017090508	2017-09-06	0.7
580875	69	JXM2017090508	2017-09-06	0.5
923505	69	JXM2017090508	2017-09-06	0.6
2141595	69	JXM2017090508	2017-09-06	0.8
569541	69	JXM2017090509	2017-09-06	0.8
580876	69	JXM2017090509	2017-09-06	0.5
787642	69	JXM2017090509	2017-09-06	0.9
784052	69	JXM2017110409	2017-11-20	0.8
785533	69	JXM2017110409	2017-11-20	0.7
808623	69	JXM2017110409	2017-11-20	0.9
749829	69	JXM2017120610	2017-12-05	0.7
1529327	69	JXM2017120610	2017-12-05	0.9
2967987	69	JXM2018011201	2018-01-17	0.9
2202450	69	JXM2018020306	2018-02-15	0.9
1626474	69	JXM2018040207	2018-04-24	0.9
2812580	69	JXM2018040207	2018-04-24	0.8
1766303	69	JXM2018040402	2018-04-25	0.8
2674657	69	JXM2018050509	2018-05-14	0.9
1627893	69	JXM2018060309	2018-06-06	0.5
2026668	69	JXM2018060309	2018-06-06	0.9
1770788	69	JXM2018070304	2018-07-05	0.7
2002927	69	JXM2018070304	2018-07-05	0.8
2011422	69	JXM2018070304	2018-07-05	0.9
2153644	69	JXM2018090206	2018-09-10	0.7
2159818	69	JXM2018090206	2018-09-10	0.9
2057167	69	JXM2018100304	2018-10-12	0.8
2915734	69	JXM2018100304	2018-10-12	0.9
1616811	69	JXM2018100305	2018-10-12	0.7
2194044	69	JXM2018100305	2018-10-12	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2293028	69	JXM2018100305	2018-10-12	0.6
2319117	69	JXM2018100305	2018-10-12	0.9
2802527	69	JXM2018100305	2018-10-12	0.5
2012204	69	JXM2018100502	2018-10-11	0.9
2014361	69	JXM2018100502	2018-10-11	0.7
2058478	69	JXM2018100502	2018-10-11	0.8
2992180	69	JXM2018110407	2018-11-19	0.9
2847105	69	JXM2018120308	2018-12-18	0.9
2031709	69	JXM2019010408	2019-01-09	0.9
2842094	69	JXM2019010408	2019-01-09	0.7
3054443	69	JXM2019010408	2019-01-09	0.8
2268013	69	JXM2019020306	2019-02-07	0.7
2380130	69	JXM2019030402	2019-03-11	0.9
2055293	69	JXM2019050304	2019-05-16	0.8
2458021	69	JXM2019050304	2019-05-16	0.7
2990459	69	JXM2019050304	2019-05-16	0.9
2043486	69	JXM2019050506	2019-05-15	0.8
2346993	69	JXM2019080202	2019-08-08	0.9
2526263	69	JXM2019080301	2019-08-05	0.8
2059856	69	JXM2019110407	2019-11-18	0.9
2383467	69	JXM2019110407	2019-11-18	0.8
2782933	69	JXM2020010304	2020-01-06	0.9
2230295	69	JXM2020100406	2020-10-13	0.9
2258261	69	JXM2020110303	2020-11-20	0.6
2758551	69	JXM2020110303	2020-11-20	0.8
2873960	69	JXM2020110303	2020-11-20	0.7
2956890	69	JXM2020110303	2020-11-20	0.5
3004372	69	JXM2020120306	2020-12-02	0.8
3004373	69	JXM2020120306	2020-12-02	0.9
2766991	69	JXM2021020506	2021-02-10	0.8
2734249	69	JXM2021040403	2021-04-23	0.7
1603695	69	JXM2021050307	2021-05-10	0.9
1607386	69	JXM2021050307	2021-05-10	0.9
1616099	69	JXM2021050307	2021-05-10	0.9
2997517	69	JXM2021060304	2021-06-02	0.9
1998999	69	JXM2021070301	2021-07-13	0.9
3064440	69	JXM2021070303	2021-07-13	0.9
2676467	69	JXM2021070304	2021-07-13	0.8
3011220	69	JXM2021070304	2021-07-13	0.9
2057558	69	JXM2022090406	2022-09-27	0.7
2616565	69	JXM2022090409	2022-09-27	0.9
2085250	69	JXM2022110302	2022-11-17	0.9
2816453	69	JXM2022110302	2022-11-17	0.8
2080179	69	JXM2022110303	2022-11-17	0.5
2328902	69	JXM2022110303	2022-11-17	0.9
2686169	69	JXM2022110303	2022-11-17	0.6
2976151	69	JXM2022110303	2022-11-17	0.8
2616793	69	JXM2022110307	2022-11-17	0.7
2616794	69	JXM2022110307	2022-11-17	0.8
2673014	69	JXM2022110307	2022-11-17	0.9
2096728	69	JXM2022110407	2022-11-21	0.8
2599855	69	JXM2022110407	2022-11-21	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
721371	69	KYM2000080102	2000-08-01	0.9
1010896	69	SAM2014060101	2014-06-19	0.9
1018734	69	SAM2016110103	2016-11-15	0.9
2881708	69	SAM2019070209	2019-07-18	0.9
840320	69	TBM1989052302	1989-05-23	0.9
909167	69	TBM1989092703	1989-09-27	0.9
750027	69	TBM1989092707	1989-09-27	0.8
768014	69	TBM1989092707	1989-09-27	0.9
775183	69	TBM1989092708	1989-09-27	0.9
775185	69	TBM1989092709	1989-09-27	0.8
792866	69	TBM1989092709	1989-09-27	0.9
872231	69	TBM1989092709	1989-09-27	0.9
877722	69	TBM1989092709	1989-09-27	0.7
786677	69	TBM1989101002	1989-10-10	0.8
1575961	69	TBM1989101002	1989-10-10	0.9
1072941	69	TBM1989101008	1989-10-10	0.8
878839	69	TBM1989101101	1989-10-11	0.9
800767	69	TBM1989101102	1989-10-11	0.8
1031183	69	TBM1989101104	1989-10-11	0.9
802207	69	TBM1990042307	1990-04-23	0.9
947382	69	TBM1990060501	1990-06-05	0.9
1227429	69	TBM1990060501	1990-06-05	0.8
1951716	69	TBM1990060501	1990-06-05	0.7
1227431	69	TBM1990060502	1990-06-05	0.6
2179304	69	TBM1990060502	1990-06-05	0.9
933046	69	TBM1990060503	1990-06-05	0.9
942999	69	TBM1990060503	1990-06-05	0.8
1647893	69	TBM1990060503	1990-06-05	0.8
2349362	69	TBM1990060703	1990-06-07	0.9
1909824	69	TBM1990101502	1990-10-15	0.9
750777	69	TBM1990111310	1990-11-13	0.9
1049758	69	TBM1990120312	1990-12-03	0.8
1477184	69	TBM1990120312	1990-12-03	0.8
922238	69	TBM1991042908	1991-04-29	0.6
1143844	69	TBM1991042908	1991-04-29	0.7
1487833	69	TBM1991042908	1991-04-29	0.8
822129	69	TBM1991042913	1991-04-29	0.9
2271490	69	TBM1991042913	1991-04-29	0.7
1497070	69	TBM1991052007	1991-05-20	0.9
1743163	69	TBM1991100701	1991-10-07	0.9
1059750	69	TBM1991100702	1991-10-07	0.9
1676879	69	TBM1991100702	1991-10-07	0.9
1953641	69	TBM1991100702	1991-10-07	0.8
1216860	69	TBM1992102605	1992-10-26	0.9
1056619	69	TBM1992102607	1992-10-26	0.9
1018640	69	TBM1993051815	1993-05-18	0.8
2264336	69	TBM1993051901	1993-05-19	0.9
1257497	69	TBM1993051926	1993-05-19	0.8
1705796	69	TBM1993051926	1993-05-19	0.9
1257713	69	TBM1993060201	1993-06-02	0.9
1658434	69	TBM1993060201	1993-06-02	0.9
1465772	69	TBM1994052305	1994-05-23	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
988690	69	TBM1994052306	1994-05-23	0.9
2441196	69	TBM1994092601	1994-09-26	0.9
1066139	69	TBM1997041718	1997-04-17	0.8
1514523	69	TBM1997041718	1997-04-17	0.9
1962732	69	TBM1997041718	1997-04-17	0.7
1039693	69	TBM1997080714	1997-08-07	0.9
1359457	69	TBM1997080714	1997-08-07	0.5
1706399	69	TBM1997080714	1997-08-07	0.8
1949596	69	TBM1997091217	1997-09-12	0.9
1237246	69	TBM1997100808	1997-10-08	0.9
1480373	69	TBM1998052017	1998-05-20	0.9
1567897	69	TBM1998061804	1998-06-18	0.9
1714758	69	TBM1999061412	1999-06-14	0.7
1475290	69	TBM1999081201	1999-08-12	0.8
1190558	69	TBM1999091405	1999-09-14	0.9
1536626	69	TBM2000041316	2000-04-13	0.9
1495890	69	TBM2000041317	2000-04-13	0.8
1365470	69	TBM2000081004	2000-08-10	0.9
1497092	69	TBM2000081004	2000-08-10	0.6
1515095	69	TBM2000081004	2000-08-10	0.8
1539939	69	TBM2000081004	2000-08-10	0.6
2369924	69	TBM2000081004	2000-08-10	0.5
2447703	69	TBM2001080708	2001-08-07	0.9
1531375	69	TBM2001080710	2001-08-07	0.7
1471088	69	TBM2002101802	2002-10-29	0.9
1610373	69	TBM2004050114	2004-05-04	0.9
1861355	69	TBM2004101302	2004-10-15	0.7
605427	69	TBM2005080703	2005-08-05	0.9
1685668	69	TBM2005080703	2005-08-05	0.8
792187	69	TBM2006070801	2006-07-03	0.9
804130	69	TBM2006070801	2006-07-03	0.7
618797	69	TBM2006070811	2006-07-03	0.9
790372	69	TBM2006080405	2006-08-01	0.8
752652	69	TBM2006090113	2006-09-26	0.9
994682	69	TBM2006100601	2006-10-03	0.8
833864	69	TBM2008040406	2008-04-14	0.9
1893677	69	TBM2008060405	2008-06-02	0.9
924025	69	TBM2008060407	2008-06-02	0.9
1874389	69	TBM2008061204	2008-06-10	0.9
1894061	69	TBM2008061204	2008-06-10	0.9
630964	69	TBM2008070601	2008-07-02	0.8
862507	69	TBM2008080306	2008-08-13	0.7
928405	69	TBM2009051009	2009-05-07	0.9
1474750	69	TBM2009080404	2009-08-12	0.9
1148307	69	TBM2009081003	2009-08-19	0.9
2814432	69	TBM2009090905	2009-09-23	0.6
880809	69	TBM2010060905	2010-06-03	0.9
1055734	69	TBM2010100104	2010-10-04	0.9
1078717	69	TBM2010100503	2010-10-05	0.9
1045182	69	TBM2011051306	2011-05-17	0.9
1148634	69	TBM2011051306	2011-05-17	0.7
1174404	69	TBM2011051306	2011-05-17	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1930248	69	TBM2011051306	2011-05-17	0.9
2828697	69	TBM2011051306	2011-05-17	0.8
1712666	69	TBM2012050901	2012-05-10	0.9
600655	69	TBM2012071103	2012-07-17	0.9
1161413	69	TBM2012071103	2012-07-17	0.9
1344306	69	TBM2012080802	2012-08-15	0.9
1363397	69	TBM2012091101	2012-09-13	0.9
1285867	69	TBM2012091403	2012-09-19	0.8
1359450	69	TBM2012091403	2012-09-19	0.7
777066	69	TBM2013090606	2013-09-13	0.9
1849901	69	TBM2013100604	2013-10-07	0.7
746565	69	TBM2013100611	2013-10-07	0.9
814914	69	TBM2014070408	2014-07-07	0.8
868024	69	TBM2015081305	2015-08-20	0.9
1647062	69	TBM2016050202	2016-05-11	0.8
1935659	69	TBM2016050202	2016-05-11	0.6
2945525	69	TBM2016050202	2016-05-11	0.7
922869	69	TBM2016110209	2016-11-14	0.8
1046556	69	TBM2017070402	2017-07-14	0.8
1939115	69	TBM2017070402	2017-07-14	0.9
2341091	69	TBM2019060312	2019-06-05	0.8
2478588	69	TBM2019071205	2019-07-11	0.8
2551863	69	TBM2019080203	2019-08-02	0.8
2376770	69	TBM2019101503	2019-10-11	0.9
2533629	69	TBM2019110309	2019-11-06	0.9
2512229	69	TBM2020071111	2020-07-06	0.9
2501938	69	TBM2020071202	2020-07-20	0.9
2578676	69	TBM2020090206	2020-09-15	0.8
2711874	69	TBM2022091103	2022-09-08	0.9
2702071	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
87547	69	APM1999040801	1999-04-08	69.8
277325	69	APM2001030202	2001-03-02	69.0
225435	69	APM2004070406	2004-07-07	69.0
42177	69	APM2012070701	2012-07-17	74.5
119580	69	APM2012070701	2012-07-17	79.0
137908	69	APM2012070701	2012-07-17	77.0
1768596	69	APM2012070701	2012-07-17	76.5
119921	69	APM2012070702	2012-07-17	84.0
150276	69	APM2012070702	2012-07-17	80.5
2619261	69	APM2012110504	2012-11-06	83.1
2886141	69	APM2013060603	2013-06-07	78.0
1269029	69	APM2013070205	2013-07-02	75.2
40402	69	APM2013081104	2013-08-15	80.2
3259	69	APM2013090906	2013-09-17	75.0
212425	69	APM2013101005	2013-10-15	77.8
1776019	69	APM2014051101	2014-05-20	84.5
2894175	69	APM2014070103	2014-07-01	100.0
220219	69	APM2014090901	2014-09-17	74.5
504777	69	APM2015070802	2015-07-09	77.5
2963891	69	APM2015090801	2015-09-11	73.5
1803176	69	APM2015100601	2015-10-08	79.0
1808141	69	APM2015100601	2015-10-08	83.0
272186	69	APM2016060601	2016-06-07	73.5
73143	69	APM2016060903	2016-06-10	82.3
221582	69	APM2016061003	2016-06-13	80.0
429316	69	APM2016080203	2016-08-02	84.0
2986583	69	APM2016080205	2016-08-02	71.0
30904	69	APM2016080506	2016-08-04	82.0
1782730	69	APM2017061405	2017-06-26	79.1
156949	69	APM2017081201	2017-08-15	83.5
270421	69	APM2017081201	2017-08-15	76.0
167438	69	APM2017091005	2017-09-15	85.3
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413590	69	CKM1998070904	1998-07-09	87.5
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775607	69	CKM2000061401	2000-06-14	82.0
807603	69	CKM2000061503	2000-06-15	84.5
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1195026	69	CKM2000081703	2000-08-17	80.0
475915	69	CKM2000081705	2000-08-17	83.0
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901976	69	CKM2000092503	2000-09-25	79.0
1371134	69	CKM2000092503	2000-09-25	88.0
1824160	69	CKM2000092503	2000-09-25	84.5
1850835	69	CKM2000092503	2000-09-25	88.5
2294657	69	CKM2000092503	2000-09-25	78.0
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486106	69	CKM2000092602	2000-09-26	86.5
574800	69	CKM2000092602	2000-09-26	80.0
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552446	69	CKM2001050702	2001-05-15	87.4
606035	69	CKM2001050702	2001-05-15	82.0
762901	69	CKM2001050702	2001-05-15	78.0
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753676	69	CKM2001060704	2001-06-13	84.5
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636649	69	CKM2001091103	2001-09-25	93.0
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747243	69	CKM2002050801	2002-05-09	85.0
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1587079	69	CKM2002070305	2002-07-02	83.0
1587452	69	CKM2002070305	2002-07-02	79.0
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683286	69	CKM2002081101	2002-08-21	88.8
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598251	69	CKM2002081105	2002-08-21	89.0
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574776	69	CKM2002100106	2002-10-01	74.5
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1395810	69	CKM2003070901	2003-07-08	84.0
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1337542	69	CKM2003090507	2003-09-09	82.0
969051	69	CKM2003100806	2003-10-13	83.0
556532	69	CKM2004020802	2004-02-17	84.8
760244	69	CKM2004020802	2004-02-17	85.7
1395055	69	CKM2004020802	2004-02-17	85.2
1524227	69	CKM2004020802	2004-02-17	85.0
1416783	69	CKM2004040706	2004-04-19	71.0
2327648	69	CKM2004040706	2004-04-19	67.8
720898	69	CKM2004050305	2004-05-06	81.0
772408	69	CKM2004050807	2004-05-18	78.0
721918	69	CKM2004060703	2004-06-16	79.0
729468	69	CKM2004060703	2004-06-16	80.0
1895035	69	CKM2004060703	2004-06-16	82.0
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611509	69	CKM2004080401	2004-08-11	79.3
748924	69	CKM2004080401	2004-08-11	82.5
748925	69	CKM2004080401	2004-08-11	84.0
917817	69	CKM2004080401	2004-08-11	74.5
979724	69	CKM2004080401	2004-08-11	82.0
1887016	69	CKM2004080401	2004-08-11	86.3
2388739	69	CKM2004080401	2004-08-11	90.5
1049989	69	CKM2004080902	2004-08-25	85.5
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329714	69	CKM2004090303	2004-09-10	84.0
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909629	69	CKM2004100105	2004-10-01	78.2
329253	69	CKM2004110402	2004-11-03	88.5
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1324360	69	CKM2004120410	2004-12-06	85.0
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2413016	69	CKM2005070601	2005-07-14	77.6
797225	69	CKM2005080701	2005-08-17	84.0
905712	69	CKM2005080701	2005-08-17	83.0
941290	69	CKM2005080701	2005-08-17	78.5
957826	69	CKM2005080701	2005-08-17	82.5
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636122	69	CKM2005080811	2005-08-19	84.5
799676	69	CKM2005080811	2005-08-19	73.0
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949279	69	CKM2005090702	2005-09-14	86.5
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1895711	69	CKM2005090703	2005-09-14	81.0
890548	69	CKM2005100206	2005-10-04	73.3
947471	69	CKM2005100206	2005-10-04	88.2
960648	69	CKM2005100206	2005-10-04	89.0
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1009186	69	CKM2006040504	2006-04-12	84.4
1647034	69	CKM2006040504	2006-04-12	76.0
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2401180	69	CKM2006040504	2006-04-12	87.0
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692656	69	CKM2006071003	2006-07-18	87.2
699794	69	CKM2006071003	2006-07-18	82.0
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971442	69	CKM2006071003	2006-07-18	79.5
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918163	69	CKM2006080401	2006-08-04	88.5
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1100383	69	CKM2006100302	2006-10-04	83.0
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2415721	69	CKM2006100302	2006-10-04	81.8
431717	69	CKM2006100807	2006-10-18	83.6
862408	69	CKM2006110504	2006-11-08	70.3
928188	69	CKM2007010104	2007-01-03	89.2
493496	69	CKM2007030809	2007-03-20	69.8
1652836	69	CKM2007060604	2007-06-08	69.4
1006153	69	CKM2007060804	2007-06-14	81.0
449381	69	CKM2007080204	2007-08-03	74.0
453397	69	CKM2007080204	2007-08-03	81.0
874924	69	CKM2007080204	2007-08-03	83.1
883025	69	CKM2007080204	2007-08-03	84.0
895104	69	CKM2007080204	2007-08-03	88.0
912039	69	CKM2007080204	2007-08-03	79.4
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1022985	69	CKM2007080204	2007-08-03	85.5
1044406	69	CKM2007080204	2007-08-03	83.5
1044407	69	CKM2007080204	2007-08-03	84.5
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1903939	69	CKM2007080204	2007-08-03	82.5
2369942	69	CKM2007080204	2007-08-03	76.5
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2413376	69	CKM2007080204	2007-08-03	84.6
2518530	69	CKM2007080204	2007-08-03	78.0
2518531	69	CKM2007080204	2007-08-03	84.2
2367184	69	CKM2007080604	2007-08-10	69.7
957346	69	CKM2007090304	2007-09-06	72.2
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1037889	69	CKM2007090304	2007-09-06	85.5
1188723	69	CKM2007090304	2007-09-06	83.0
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2407332	69	CKM2007090406	2007-09-10	74.0
2519425	69	CKM2007090406	2007-09-10	74.5
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2447234	69	CKM2007090905	2007-09-25	87.5
468635	69	CKM2007100306	2007-10-04	93.2
477269	69	CKM2007100306	2007-10-04	91.0
862845	69	CKM2007100306	2007-10-04	87.5

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902104	69	CKM2007100306	2007-10-04	83.3
926350	69	CKM2007100306	2007-10-04	86.2
1026738	69	CKM2007100306	2007-10-04	88.0
1028819	69	CKM2007100306	2007-10-04	83.0
1028820	69	CKM2007100306	2007-10-04	93.9
1040454	69	CKM2007100306	2007-10-04	89.0
1043971	69	CKM2007100306	2007-10-04	90.2
1047210	69	CKM2007100306	2007-10-04	86.0
1252921	69	CKM2007100306	2007-10-04	93.5
1341520	69	CKM2007100306	2007-10-04	80.1
1341521	69	CKM2007100306	2007-10-04	91.5
1636318	69	CKM2007100306	2007-10-04	90.0
1657737	69	CKM2007100306	2007-10-04	81.0
1664712	69	CKM2007100306	2007-10-04	82.0
1944113	69	CKM2007100306	2007-10-04	79.2
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1951993	69	CKM2007100306	2007-10-04	87.0
2367438	69	CKM2007100306	2007-10-04	84.4
2426402	69	CKM2007100306	2007-10-04	88.8
1265235	69	CKM2007100906	2007-10-17	73.0
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2519668	69	CKM2008010405	2008-01-09	90.0
1917115	69	CKM2008040405	2008-04-03	82.4
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918636	69	CKM2008050607	2008-05-07	83.5
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1337350	69	CKM2008050607	2008-05-07	91.0
1683790	69	CKM2008050607	2008-05-07	84.0
1692415	69	CKM2008050607	2008-05-07	82.2
2385666	69	CKM2008050607	2008-05-07	79.8
1191293	69	CKM2008060303	2008-06-03	83.5
1683828	69	CKM2008060310	2008-06-03	78.0
947339	69	CKM2008060503	2008-06-05	76.4
889954	69	CKM2008060507	2008-06-04	75.0
949489	69	CKM2008060507	2008-06-04	79.0
1096211	69	CKM2008060507	2008-06-04	85.2
1891096	69	CKM2008060507	2008-06-04	74.0
1891097	69	CKM2008060507	2008-06-04	88.0

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1891412	69	CKM2008060507	2008-06-04	82.5
917069	69	CKM2008060508	2008-06-05	83.2
1146599	69	CKM2008060508	2008-06-05	84.0
963270	69	CKM2008070209	2008-07-02	86.0
1892971	69	CKM2008070209	2008-07-02	89.5
1327284	69	CKM2008070303	2008-07-03	89.5
2385690	69	CKM2008070303	2008-07-03	83.7
2446678	69	CKM2008070303	2008-07-03	82.5
2520383	69	CKM2008070303	2008-07-03	90.0
1311434	69	CKM2008070304	2008-07-03	73.5
2389436	69	CKM2008070304	2008-07-03	77.0
1185854	69	CKM2008080408	2008-08-05	78.0
1058339	69	CKM2008090102	2008-09-02	79.5
1079589	69	CKM2008100207	2008-10-03	87.6
481785	69	CKM2008100505	2008-10-09	70.0
938662	69	CKM2008100505	2008-10-09	82.9
1168011	69	CKM2008100505	2008-10-09	80.5
1182084	69	CKM2008100505	2008-10-09	73.3
1913830	69	CKM2008100505	2008-10-09	77.0
2390022	69	CKM2008100505	2008-10-09	77.5
2427763	69	CKM2008100505	2008-10-09	88.0
1071901	69	CKM2008100507	2008-10-09	78.4
1092946	69	CKM2008120101	2008-12-03	87.0
1718325	69	CKM2008120504	2008-12-09	83.4
1018017	69	CKM2009020409	2009-02-10	86.0
1110054	69	CKM2009040105	2009-04-03	86.0
1102184	69	CKM2009040106	2009-04-03	77.0
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1730287	69	CKM2009050201	2009-05-04	78.6
2449160	69	CKM2009050201	2009-05-04	81.5
540822	69	CKM2009050409	2009-05-11	71.2
2401965	69	CKM2009050409	2009-05-11	77.5
1210408	69	CKM2009060405	2009-06-08	83.0
1272870	69	CKM2009060405	2009-06-08	82.5
1681922	69	CKM2009060405	2009-06-08	84.8
1126279	69	CKM2009060706	2009-06-15	83.4
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556484	69	CKM2009060707	2009-06-15	82.9
562895	69	CKM2009060707	2009-06-15	85.1
1111727	69	CKM2009070106	2009-07-02	83.7
1115651	69	CKM2009070106	2009-07-02	80.6
1678926	69	CKM2009070106	2009-07-02	76.0
536322	69	CKM2009070608	2009-07-15	81.3
1153088	69	CKM2009070608	2009-07-15	80.4
2521773	69	CKM2009070608	2009-07-15	85.3
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533057	69	CKM2009080110	2009-08-03	81.2
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1707835	69	CKM2009080202	2009-08-04	86.5
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1291925	69	CKM2009080311	2009-08-05	73.0
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1153123	69	CKM2009090103	2009-09-01	73.0
1206618	69	CKM2009090103	2009-09-01	78.0
1229984	69	CKM2009090103	2009-09-01	71.0
1286796	69	CKM2009090103	2009-09-01	78.6
1287315	69	CKM2009090103	2009-09-01	72.4
1291351	69	CKM2009090103	2009-09-01	76.5
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1650816	69	CKM2009100704	2009-10-15	82.0
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1026779	69	CKM2010040402	2010-04-06	86.0
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2548799	69	CKM2010050409	2010-05-11	89.5
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1179955	69	CKM2010080804	2010-08-25	81.5
1196892	69	CKM2010080804	2010-08-25	84.3
1718317	69	CKM2010080804	2010-08-25	78.0
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1909232	69	CKM2010100504	2010-10-14	81.5
651438	69	CKM2011040407	2011-04-11	69.0
652875	69	CKM2011040407	2011-04-11	75.5
669664	69	CKM2011040407	2011-04-11	74.3
947958	69	CKM2011040407	2011-04-11	72.0
947959	69	CKM2011040407	2011-04-11	83.0
985090	69	CKM2011040407	2011-04-11	78.5
1137537	69	CKM2011040407	2011-04-11	79.0
1158478	69	CKM2011040407	2011-04-11	74.5
1158479	69	CKM2011040407	2011-04-11	78.0
1178978	69	CKM2011040407	2011-04-11	76.5
1207138	69	CKM2011040407	2011-04-11	77.0
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1296061	69	CKM2011040407	2011-04-11	73.5
1307072	69	CKM2011040407	2011-04-11	72.2

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1729471	69	CKM2011040407	2011-04-11	77.5
2576622	69	CKM2011040407	2011-04-11	75.0
1329956	69	CKM2011050108	2011-05-02	78.1
2397518	69	CKM2011050502	2011-05-09	81.1
570874	69	CKM2011060204	2011-06-02	83.3
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1343238	69	CKM2011080302	2011-08-10	69.9
1213000	69	CKM2011080307	2011-08-10	78.0
1191839	69	CKM2011090202	2011-09-07	82.1
1195226	69	CKM2011090202	2011-09-07	79.6
2398147	69	CKM2011090202	2011-09-07	88.5
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1330912	69	CKM2012020801	2012-02-16	68.3
687649	69	CKM2012040104	2012-04-03	77.5
691495	69	CKM2012040104	2012-04-03	77.1
1331419	69	CKM2012040104	2012-04-03	72.6
1340777	69	CKM2012040104	2012-04-03	78.9
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1732802	69	CKM2012040104	2012-04-03	71.5
1414281	69	CKM2012040304	2012-04-05	72.5
1344830	69	CKM2012040706	2012-04-17	83.0
1363799	69	CKM2012040706	2012-04-17	75.7
2506064	69	CKM2012050107	2012-05-01	72.5
338333	69	CKM2012050306	2012-05-03	71.9
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1197466	69	CKM2012050306	2012-05-03	78.1
332057	69	CKM2012050307	2012-05-03	70.9
1197468	69	CKM2012050307	2012-05-03	80.4
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686095	69	CKM2012060208	2012-06-07	83.3
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400882	69	CKM2012090502	2012-09-11	85.7
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780694	69	CKM2012110502	2012-11-07	79.0
1321778	69	CKM2012110602	2012-11-08	76.2
1323018	69	CKM2012110703	2012-11-09	81.8
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437052	69	CKM2013040508	2013-04-08	89.9
728985	69	CKM2013040508	2013-04-08	84.0
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856780	69	CKM2014060602	2014-06-05	77.5
881340	69	CKM2014060602	2014-06-05	74.0
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902977	69	CKM2014060602	2014-06-05	74.3
1296098	69	CKM2014060602	2014-06-05	77.0
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1360037	69	CKM2014100509	2014-10-09	88.0
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442474	69	CKM2016050604	2016-05-18	79.5
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467749	69	CKM2016110308	2016-11-02	84.0
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1732861	69	CKM2017050307	2017-05-08	71.0
891946	69	CKM2017060308	2017-06-08	70.9
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329704	69	CKM2017070303	2017-07-07	75.5
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521464	69	CKM2017070303	2017-07-07	79.5
528355	69	CKM2017070303	2017-07-07	69.0
528356	69	CKM2017070303	2017-07-07	80.0
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1341214	69	CKM2018050901	2018-05-10	77.2
1344629	69	CKM2018050901	2018-05-10	74.8
1353371	69	CKM2018050901	2018-05-10	74.3
1354103	69	CKM2018050901	2018-05-10	79.8
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1279761	69	CKM2018060105	2018-06-01	78.2
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1928502	69	CKM2018080108	2018-08-01	70.4
1944416	69	CKM2018080108	2018-08-01	75.6
1305436	69	CKM2018090202	2018-09-05	68.0
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1449602	69	CKM2019060106	2019-06-03	78.5
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1740783	69	CKM2019070402	2019-07-03	78.6

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2752564	69	CKM2020050602	2020-05-22	72.0
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1709276	69	CKM2020050605	2020-05-22	82.7
1954316	69	CKM2020050702	2020-05-26	74.0
1954317	69	CKM2020050702	2020-05-26	76.2
2254768	69	CKM2020050702	2020-05-26	71.8
2913472	69	CKM2020050702	2020-05-26	74.6
2211837	69	CKM2020060601	2020-06-18	74.0
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1315301	69	CKM2020060603	2020-06-18	69.2
2211838	69	CKM2020060603	2020-06-18	75.9
1268310	69	CKM2020060701	2020-06-25	74.8
1407312	69	CKM2020060701	2020-06-25	70.4
1407313	69	CKM2020060701	2020-06-25	71.9
1709468	69	CKM2020060701	2020-06-25	75.4

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2902180	69	CKM2020060701	2020-06-25	79.0
1373286	69	CKM2020070304	2020-07-02	77.8
1588336	69	CKM2020070304	2020-07-02	73.3
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1468561	69	CKM2020080307	2020-08-06	71.2
1469407	69	CKM2020080307	2020-08-06	71.5
1562901	69	CKM2020080307	2020-08-06	75.8
1589301	69	CKM2020080307	2020-08-06	70.1
1931323	69	CKM2020080307	2020-08-06	68.8
1931324	69	CKM2020080307	2020-08-06	76.0
1971092	69	CKM2020080307	2020-08-06	68.7
1991761	69	CKM2020080307	2020-08-06	74.6
2281244	69	CKM2020080307	2020-08-06	70.6
2306477	69	CKM2020080307	2020-08-06	69.5
2306478	69	CKM2020080307	2020-08-06	75.4
2902288	69	CKM2020080307	2020-08-06	71.3
1180302	69	CKM2020080403	2020-08-07	80.0
1180947	69	CKM2020080403	2020-08-07	78.5
1215532	69	CKM2020080403	2020-08-07	75.4
1244865	69	CKM2020080403	2020-08-07	76.5
1246061	69	CKM2020080403	2020-08-07	76.3
1253955	69	CKM2020080403	2020-08-07	77.9
1282236	69	CKM2020080403	2020-08-07	72.8
1315553	69	CKM2020080403	2020-08-07	69.5
2918581	69	CKM2020080403	2020-08-07	78.7
1201670	69	CKM2020080404	2020-08-07	75.8
1277093	69	CKM2020080404	2020-08-07	72.0
1400809	69	CKM2020080404	2020-08-07	71.0
1707716	69	CKM2020080404	2020-08-07	74.0
2250973	69	CKM2020080404	2020-08-07	75.0
2173461	69	CKM2020080803	2020-08-19	71.2
1180411	69	CKM2020090102	2020-09-01	68.6
1266745	69	CKM2020090102	2020-09-01	72.2
1130348	69	CKM2020090401	2020-09-18	68.4
1184563	69	CKM2020090401	2020-09-18	69.3
1229490	69	CKM2020090401	2020-09-18	71.5
1249455	69	CKM2020090401	2020-09-18	72.5
1250613	69	CKM2020090401	2020-09-18	70.2
1267007	69	CKM2020090401	2020-09-18	75.2
1325107	69	CKM2020090401	2020-09-18	76.8
1950796	69	CKM2020090401	2020-09-18	73.5
1991796	69	CKM2020090401	2020-09-18	71.8
1334197	69	CKM2020090603	2020-09-25	80.5
1703566	69	CKM2020090603	2020-09-25	75.0
1228938	69	CKM2020100704	2020-10-15	75.0
1261137	69	CKM2020100705	2020-10-15	75.5

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1724008	69	CKM2020110308	2020-11-05	71.5
2676904	69	CKM2021030405	2021-03-10	69.5
2985237	69	CKM2021030405	2021-03-10	68.9
2830460	69	CKM2021040205	2021-04-06	78.0
3127219	69	CKM2021040407	2021-04-12	71.8
2563276	69	CKM2021040505	2021-04-13	77.3
2662795	69	CKM2021040505	2021-04-13	78.2
2749547	69	CKM2021040505	2021-04-13	69.2
2844466	69	CKM2021040505	2021-04-13	74.8
2844862	69	CKM2021040505	2021-04-13	76.0
2980163	69	CKM2021040505	2021-04-13	71.8
2982903	69	CKM2021040505	2021-04-13	70.9
2422663	69	CKM2021050205	2021-05-05	72.8
2569119	69	CKM2021050205	2021-05-05	68.7
2980189	69	CKM2021050205	2021-05-05	71.4
2000340	69	CKM2021050305	2021-05-06	72.5
2579425	69	CKM2021050305	2021-05-06	72.8
2749577	69	CKM2021050305	2021-05-06	71.8
2815210	69	CKM2021050305	2021-05-06	69.3
2844497	69	CKM2021050305	2021-05-06	69.7
2844498	69	CKM2021050305	2021-05-06	72.0
2933724	69	CKM2021050305	2021-05-06	69.4
3060211	69	CKM2021050305	2021-05-06	73.8
3060212	69	CKM2021050305	2021-05-06	74.0
2734237	69	CKM2021050502	2021-05-11	74.6
2129891	69	CKM2021050603	2021-05-12	75.7
2182003	69	CKM2021050603	2021-05-12	74.5
2684956	69	CKM2021050603	2021-05-12	77.2
3048693	69	CKM2021050703	2021-05-17	72.8
2579441	69	CKM2021050704	2021-05-17	69.5
2584085	69	CKM2021050704	2021-05-17	74.0
2846110	69	CKM2021060303	2021-06-04	71.5
3049530	69	CKM2021060303	2021-06-04	72.5
2663016	69	CKM2021060304	2021-06-04	71.4
2749632	69	CKM2021060304	2021-06-04	69.4
2957427	69	CKM2021060304	2021-06-04	69.0
2967920	69	CKM2021060304	2021-06-04	67.9
2967921	69	CKM2021060304	2021-06-04	71.0
3049533	69	CKM2021060304	2021-06-04	73.6
3061774	69	CKM2021060304	2021-06-04	71.2
3136507	69	CKM2021060304	2021-06-04	70.4
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2510696	69	CKM2021060305	2021-06-04	72.4
2934318	69	CKM2021060305	2021-06-04	71.9
2113106	69	CKM2021060407	2021-06-09	72.5
2541129	69	CKM2021060407	2021-06-09	70.5
2802634	69	CKM2021060407	2021-06-09	72.8
2982593	69	CKM2021060407	2021-06-09	72.0
2986025	69	CKM2021060407	2021-06-09	74.1
2000819	69	CKM2021060504	2021-06-10	69.2
2081793	69	CKM2021060504	2021-06-10	71.3
2182074	69	CKM2021060504	2021-06-10	73.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2088828	69	CKM2021070201	2021-07-02	68.1
2468919	69	CKM2021070201	2021-07-02	76.0
2510786	69	CKM2021070201	2021-07-02	71.3
2005261	69	CKM2021070203	2021-07-02	79.2
2006336	69	CKM2021070203	2021-07-02	75.2
2023116	69	CKM2021070203	2021-07-02	72.3
2541200	69	CKM2021070203	2021-07-02	70.2
2579503	69	CKM2021070203	2021-07-02	71.2
2569405	69	CKM2021070304	2021-07-12	72.2
2025103	69	CKM2021070406	2021-07-13	75.6
2579510	69	CKM2021070406	2021-07-13	70.0
2837351	69	CKM2021070501	2021-07-01	69.5
2444643	69	CKM2021080208	2021-08-09	76.5
2860065	69	CKM2021080502	2021-08-19	76.0
3148484	69	CKM2021080602	2021-08-23	81.0
2470542	69	CKM2021090102	2021-09-01	75.3
2035769	69	CKM2021090104	2021-09-01	74.0
2035770	69	CKM2021090104	2021-09-01	78.0
2054785	69	CKM2021090104	2021-09-01	74.5
2444681	69	CKM2021090104	2021-09-01	76.0
2563840	69	CKM2021090104	2021-09-01	71.0
2953021	69	CKM2021090104	2021-09-01	73.0
3063161	69	CKM2021090104	2021-09-01	69.5
2815798	69	CKM2021090303	2021-09-07	76.0
2991370	69	CKM2021090303	2021-09-07	71.0
2563970	69	CKM2021090305	2021-09-07	71.5
2991372	69	CKM2021090305	2021-09-07	76.2
3148700	69	CKM2021100106	2021-10-01	73.7
3063723	69	CKM2021100304	2021-10-05	69.8
3004184	69	CKM2021100808	2021-10-03	75.5
3051734	69	CKM2022020508	2022-02-15	84.9
2594164	69	CKM2022030408	2022-03-04	73.7
2215482	69	CKM2022040105	2022-04-01	80.2
2199026	69	CKM2022050204	2022-05-03	73.2
2160200	69	CKM2022050401	2022-05-05	69.5
2459167	69	CKM2022050401	2022-05-05	80.3
2033614	69	CKM2022050407	2022-05-05	70.5
2071209	69	CKM2022050407	2022-05-05	71.0
2145932	69	CKM2022050407	2022-05-05	72.8
2175245	69	CKM2022050407	2022-05-05	69.5
2783961	69	CKM2022050407	2022-05-05	78.0
2992518	69	CKM2022050407	2022-05-05	71.7
2997557	69	CKM2022050407	2022-05-05	72.0
3053562	69	CKM2022050407	2022-05-05	73.0
2154060	69	CKM2022060109	2022-06-01	71.1
2018715	69	CKM2022060201	2022-06-01	69.6
2018716	69	CKM2022060201	2022-06-01	73.2
2119290	69	CKM2022060201	2022-06-01	72.6
3163877	69	CKM2022060201	2022-06-01	72.7
2033697	69	CKM2022060205	2022-06-01	77.0
2187470	69	CKM2022060205	2022-06-01	75.2
2244924	69	CKM2022060205	2022-06-01	71.0

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2244925	69	CKM2022060205	2022-06-01	75.0
2245188	69	CKM2022060205	2022-06-01	74.4
2477315	69	CKM2022060205	2022-06-01	76.5
2516561	69	CKM2022060205	2022-06-01	70.2
2739889	69	CKM2022060205	2022-06-01	75.6
2765190	69	CKM2022060205	2022-06-01	74.1
2608326	69	CKM2022070201	2022-07-05	72.7
2990781	69	CKM2022070201	2022-07-05	69.5
2572264	69	CKM2022070602	2022-07-08	76.3
2071576	69	CKM2022080105	2022-08-08	72.5
2145305	69	CKM2022080105	2022-08-08	74.5
2162632	69	CKM2022080105	2022-08-08	69.5
2175603	69	CKM2022080105	2022-08-08	70.6
2241181	69	CKM2022080105	2022-08-08	74.6
2494145	69	CKM2022080105	2022-08-08	75.5
2572489	69	CKM2022080105	2022-08-08	69.0
2586733	69	CKM2022080105	2022-08-08	71.5
2592205	69	CKM2022080105	2022-08-08	70.5
2633646	69	CKM2022080105	2022-08-08	72.2
2699663	69	CKM2022080105	2022-08-08	72.3
2765403	69	CKM2022080105	2022-08-08	69.9
2787940	69	CKM2022080105	2022-08-08	76.0
2787941	69	CKM2022080105	2022-08-08	77.0
2847041	69	CKM2022080105	2022-08-08	72.6
2919000	69	CKM2022080105	2022-08-08	78.0
2998864	69	CKM2022080105	2022-08-08	72.0
2998865	69	CKM2022080105	2022-08-08	73.4
3062692	69	CKM2022080105	2022-08-08	73.0
3062693	69	CKM2022080105	2022-08-08	75.0
2572305	69	CKM2022080507	2022-08-15	77.3
2052375	69	CKM2022090704	2022-09-22	73.2
2259961	69	CKM2022090704	2022-09-22	78.0
2588566	69	CKM2022090704	2022-09-22	79.9
2765888	69	CKM2022090704	2022-09-22	79.4
2992735	69	CKM2022090704	2022-09-22	78.1
2490121	69	CKM2022100107	2022-10-03	68.5
2743054	69	CKM2022100303	2022-10-05	77.6
2786958	69	CKM2022100303	2022-10-05	68.2
2460109	69	CKM2022100504	2022-10-10	77.5
2821532	69	CKM2022100504	2022-10-10	78.0
494251	69	IRM1999011401	1999-01-14	92.1
579207	69	IRM1999102701	1999-10-27	83.3
1922729	69	IRM1999102701	1999-10-27	82.1
725863	69	IRM1999102703	1999-10-27	71.1
552774	69	IRM2000100901	2000-10-09	76.0
951553	69	IRM2000100901	2000-10-09	88.5
1593009	69	IRM2000100901	2000-10-09	103.5
1881750	69	IRM2002050504	2002-05-08	71.4
1680762	69	IRM2002080901	2002-08-22	68.2
1063184	69	IRM2003071201	2003-07-21	78.3
918300	69	IRM2004020604	2004-02-10	91.1
1642002	69	IRM2004020604	2004-02-10	96.5

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1898984	69	IRM2004020604	2004-02-10	92.4
1805419	69	IRM2010090102	2010-09-01	94.7
2705397	69	IRM2014021007	2014-02-17	68.6
457301	69	IRM2015101304	2015-10-21	68.4
1837754	69	IRM2016010905	2016-01-14	68.7
1605499	69	IRM2018090601	2018-09-11	81.5
1578365	69	IRM2019010703	2019-01-18	69.8
1993323	69	IRM2019010703	2019-01-18	70.8
1580686	69	IRM2019050704	2019-05-13	74.3
1593509	69	IRM2020030102	2020-03-02	71.8
2357077	69	IRM2022010603	2022-01-12	70.6
2873387	69	IRM2022010603	2022-01-12	72.8
2280791	69	IRM2022070303	2022-07-07	69.5
741179	69	JXM2001051201	2001-05-30	81.8
863627	69	JXM2011040501	2011-04-04	70.4
1474207	69	TBM1997111215	1997-11-12	68.8
1975555	69	TBM1998082002	1998-08-20	71.5
936234	69	TBM1999021509	1999-02-15	69.0
1021954	69	TBM1999072303	1999-07-23	68.6
1511876	69	TBM2002030907	2002-03-08	68.0
705849	69	TBM2003031102	2003-03-13	69.2
1422899	69	TBM2003031102	2003-03-13	72.0
1452097	69	TBM2003031102	2003-03-13	68.0
1581703	69	TBM2003031102	2003-03-13	69.0
1734063	69	TBM2003031102	2003-03-13	69.1
1974879	69	TBM2003031102	2003-03-13	71.0
811479	69	TBM2008021103	2008-02-26	71.5
2811590	69	TBM2008021107	2008-02-26	68.1
1206980	69	TBM2008091102	2008-09-08	72.1
1977769	69	TBM2014111002	2014-11-13	71.5
1207917	69	TBM2016050703	2016-05-02	69.6
1647238	69	TBM2016050703	2016-05-02	70.2
1653101	69	TBM2016050703	2016-05-02	69.1
2945535	69	TBM2016050703	2016-05-02	68.3
799296	69	TBM2016070907	2016-07-20	67.9
1014021	69	TBM2016081401	2016-08-24	71.5
2750609	69	TBM2019070905	2019-07-11	70.3
2072887	69	TBM2022050402	2022-05-04	68.2
2734883	69	TBM2022060202	2022-06-06	76.1
2837847	69	TBM2022060203	2022-06-06	70.8
3060548	69	TBM2022110605	2022-11-07	76.4
973454	69	TQM1997052003	1997-05-20	68.0
1143270	69	TQM1997052003	1997-05-20	74.0
1453830	69	TQM1997052003	1997-05-20	73.3
1997395	69	TQM1997081902	1997-08-19	84.0
1351271	69	TQM1997122304	1997-12-23	68.5
1116290	69	TQM1998032301	1998-03-23	68.5
1617836	69	TQM1998042011	1998-04-20	68.2
1697369	69	TQM1998051302	1998-05-13	74.5
1427087	69	TQM1998102002	1998-10-20	79.8
1716512	69	TQM1999051102	1999-05-11	86.5
1742576	69	TQM1999051102	1999-05-11	75.7

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1198639	69	TQM1999051104	1999-05-11	78.0
1304981	69	TQM1999071502	1999-07-15	109.6
1504156	69	TQM1999101904	1999-10-19	70.5
1749554	69	TQM2000052304	2000-05-23	73.7
1943836	69	TQM2000101804	2000-10-18	75.1
1315678	69	TQM2001030104	2001-03-01	68.5
1331962	69	TQM2001030104	2001-03-01	73.4
1704565	69	TQM2001100303	2001-10-16	72.1
1402263	69	TQM2001120203	2001-12-13	68.8
1190703	69	TQM2002030205	2002-03-07	70.2
1402642	69	TQM2002050303	2002-05-14	78.0
1258754	69	TQM2002060206	2002-06-11	78.4
1702453	69	TQM2002070401	2002-07-30	77.5
1706496	69	TQM2003030204	2003-03-18	80.5
953319	69	TQM2003090204	2003-09-10	72.8
1614237	69	TQM2003090204	2003-09-10	71.5
1228670	69	TQM2004040104	2004-04-06	76.9
1493901	69	TQM2004060402	2004-06-22	90.0
1938456	69	TQM2005010205	2005-01-11	73.5
1062158	69	TQM2005030305	2005-03-16	68.5
952479	69	TQM2006110402	2006-11-28	73.0
964708	69	TQM2006110402	2006-11-28	69.0
1338950	69	TQM2006110402	2006-11-28	73.5
1719873	69	TQM2006110402	2006-11-28	74.0
1941115	69	TQM2006110402	2006-11-28	67.8
2042275	69	TQM2007030402	2007-03-27	74.5
1020718	69	TQM2007050303	2007-05-14	87.8
1395478	69	TQM2008110204	2008-11-05	74.0
1403083	69	TQM2008110204	2008-11-05	86.0
1439249	69	TQM2008110204	2008-11-05	87.0
997910	69	TQM2012050101	2012-05-03	109.0
1590604	69	TQM2015050101	2015-05-06	70.2
1917813	69	TQM2015050101	2015-05-06	68.5
1492397	69	TQM2016120403	2016-12-09	81.4
1896463	69	TQM2017040301	2017-04-11	69.8
2232079	69	TQM2018020603	2018-02-15	68.9
2302284	69	TQM2019040302	2019-04-05	68.3
2588522	69	TQM2020100403	2020-10-14	70.0
2674722	69	TQM2020100403	2020-10-14	70.4
3049092	69	TQM2021020703	2021-02-24	78.8
2152258	69	TQM2021040404	2021-04-14	74.4
2172987	69	TQM2021070302	2021-07-07	68.5
2840660	69	TQM2021070503	2021-07-12	73.5
1622377	69	TQM2021080501	2021-08-16	91.0
2254437	69	TQM2021080501	2021-08-16	92.5
2837061	69	TQM2021100104	2021-10-04	92.6
2961200	69	TQM2022020303	2022-02-08	69.9
2215908	69	TQM2022060303	2022-06-07	71.0
2320661	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: **1040.224**

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2534802	69	TBM1997061607	1997-06-16	1115
2776528	69	TBM1997091508	1997-09-15	1270
2604275	69	TBM1999100402	1999-10-04	1289
2593320	69	TBM1999110404	1999-11-04	1491
2708452	69	TBM1999110406	1999-11-04	1520
2169251	69	TBM2001010705	2001-01-26	1180
2308844	69	TBM2001020713	2001-02-05	1671
2221578	69	TBM2001021001	2001-02-12	1232
2771638	69	TBM2001120203	2001-12-04	1120
2935797	69	TBM2002080502	2002-08-05	1647
2222754	69	TBM2002081204	2002-08-15	1536
2782945	69	TBM2002101604	2002-10-23	1132
2507233	69	TBM2003021002	2003-02-14	1382
2984198	69	TBM2003021611	2003-02-19	6128
2858876	69	TBM2003080201	2003-08-04	1501
2756744	69	TBM2004100204	2004-10-01	2585
2583553	69	TBM2005060803	2005-06-07	1115
3114209	69	TBM2006040307	2006-04-18	1076
2010764	69	TBM2006100502	2006-10-02	1224
2800633	69	TBM2006111002	2006-11-09	4597
2468407	69	TBM2006111005	2006-11-09	1072
2943292	69	TBM2007061006	2007-06-19	1367
1618801	69	TBM2007110605	2007-11-06	1843
2029904	69	TBM2007110904	2007-11-08	1572
2872806	69	TBM2008011202	2008-01-10	3882
2356453	69	TBM2008040201	2008-04-14	1085
2034885	69	TBM2008040406	2008-04-14	2532
1627696	69	TBM2008050606	2008-05-08	2236
3040984	69	TBM2008050608	2008-05-08	1370
2955297	69	TBM2008051505	2008-05-16	1367
2085907	69	TBM2008061105	2008-06-05	2432
2955306	69	TBM2008071206	2008-07-24	1520
2304399	69	TBM2008080102	2008-08-11	1127
2959957	69	TBM2008080802	2008-08-20	1621
2015161	69	TBM2008081305	2008-08-26	2051
2090349	69	TBM2008090505	2008-09-04	1125
2831958	69	TBM2008101105	2008-10-13	1096
2031117	69	TBM2008110602	2008-11-05	1486
2036111	69	TBM2008110803	2008-11-17	1370
2519221	69	TBM2008111101	2008-11-19	1169
2305245	69	TBM2008111104	2008-11-19	1775
2337797	69	TBM2008120803	2008-12-05	2181
2012245	69	TBM2008121503	2008-12-18	1270
2040715	69	TBM2009011001	2009-01-26	1688
2436709	69	TBM2009051005	2009-05-07	2457
2021559	69	TBM2009051009	2009-05-07	1402
2738165	69	TBM2009051209	2009-05-12	1887
3038033	69	TBM2009071110	2009-07-07	1287
2439465	69	TBM2009081006	2009-08-19	1493

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2314252	69	TBM2009081501	2009-08-24	1207
2494474	69	TBM2009091301	2009-09-17	1567
2057661	69	TBM2009100601	2009-10-06	2562
2109152	69	TBM2009110301	2009-11-05	1051
2441140	69	TBM2009111405	2009-11-18	2046
1998470	69	TBM2010040501	2010-04-05	1355
2093862	69	TBM2010051302	2010-05-19	1140
2090305	69	TBM2010051304	2010-05-19	2816
2086594	69	TBM2010051308	2010-05-19	2327
2430744	69	TBM2010060904	2010-06-03	1052
2062581	69	TBM2010060905	2010-06-03	1210
2109699	69	TBM2010060909	2010-06-03	1635
2053103	69	TBM2010070205	2010-07-01	1689
2917047	69	TBM2010070405	2010-07-08	2465
1558151	69	TBM2010070406	2010-07-08	1352
2517469	69	TBM2010070505	2010-07-09	1048
2596402	69	TBM2010091103	2010-09-14	1042
2455738	69	TBM2010091301	2010-09-16	1102
2387159	69	TBM2010091403	2010-09-20	2865
2089118	69	TBM2010091404	2010-09-20	1629
2408074	69	TBM2010100805	2010-10-07	1897
2490515	69	TBM2010100901	2010-10-14	1293
2362056	69	TBM2010100902	2010-10-14	1108
2078352	69	TBM2010101205	2010-10-15	1332
2431186	69	TBM2010101205	2010-10-15	1255
2039141	69	TBM2011030401	2011-03-02	1046
2490595	69	TBM2011051407	2011-05-18	1620
1622299	69	TBM2011060603	2011-06-27	1407
2429331	69	TBM2011070407	2011-07-11	1212
2175267	69	TBM2011090301	2011-09-14	1415
2597270	69	TBM2011100603	2011-10-03	1111
2215895	69	TBM2011100605	2011-10-03	1185
2495919	69	TBM2011110605	2011-11-02	1874
2149935	69	TBM2012010203	2012-01-04	1576
2402512	69	TBM2012010203	2012-01-04	2633
2108186	69	TBM2012050910	2012-05-10	1055
2034489	69	TBM2012081103	2012-08-09	1449
2007721	69	TBM2012100304	2012-10-22	1338
2277772	69	TBM2012100304	2012-10-22	2416
2875881	69	TBM2013050702	2013-05-21	2195
2698325	69	TBM2013060701	2013-06-11	1841
2405167	69	TBM2013060705	2013-06-11	1541
2852438	69	TBM2013060707	2013-06-11	1364
2274621	69	TBM2013070208	2013-07-03	2110
2962502	69	TBM2013071001	2013-07-16	1141
2084359	69	TBM2013080404	2013-08-13	1773
2552323	69	TBM2013091302	2013-09-23	2114
2203744	69	TBM2013110103	2013-11-04	2734
2962550	69	TBM2013110104	2013-11-04	1173
3137363	69	TBM2014050206	2014-05-06	1215
2739474	69	TBM2014050208	2014-05-06	1749
2208464	69	TBM2014070408	2014-07-07	2530

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2184062	69	TBM2014080106	2014-08-06	1596
2621842	69	TBM2014080601	2014-08-07	1109
2418108	69	TBM2014081110	2014-08-14	1319
2097017	69	TBM2014100904	2014-10-06	1463
2184187	69	TBM2014100906	2014-10-06	1695
2209071	69	TBM2014101302	2014-10-14	1324
2142964	69	TBM2014110404	2014-11-12	3094
2990563	69	TBM2014110901	2014-11-06	1334
2168245	69	TBM2014111002	2014-11-13	1713
2142076	69	TBM2015071501	2015-07-09	2546
2495967	69	TBM2015090704	2015-09-03	2509
2809414	69	TBM2015090704	2015-09-03	1405
2985537	69	TBM2015090704	2015-09-03	1064
2518791	69	TBM2015101008	2015-10-13	1182
2529585	69	TBM2015101306	2015-10-26	1169
2616207	69	TBM2015110804	2015-11-02	1414
2115712	69	TBM2015110805	2015-11-02	1050
3019531	69	TBM2015110805	2015-11-02	1235
2102652	69	TBM2015110901	2015-11-12	2013
2178788	69	TBM2015111205	2015-11-03	1107
2530182	69	TBM2016010204	2016-01-11	1258
2115882	69	TBM2016071101	2016-07-07	1473
2539869	69	TBM2016071101	2016-07-07	1151
3079550	69	TBM2016091807	2016-09-08	1623
2607592	69	TBM2016101401	2016-10-13	1129
2317491	69	TBM2016101406	2016-10-13	1594
2671750	69	TBM2017020302	2017-02-13	1147
2352024	69	TBM2017090906	2017-09-27	1121
2802735	69	TBM2017100502	2017-10-16	1626
2948843	69	TBM2017100804	2017-10-10	2535
2633340	69	TBM2017100805	2017-10-10	1223
2631395	69	TBM2017101504	2017-10-06	1204
2118891	69	TBM2017111101	2017-11-06	1280
2076287	69	TBM2018080106	2018-08-13	1070
2754038	69	TBM2018090803	2018-09-14	1265
3049652	69	TBM2018090905	2018-09-10	1793
2753506	69	TBM2018111201	2018-11-01	1289
2056973	69	TBM2019060106	2019-06-03	1628
3113924	69	TBM2019061203	2019-06-17	1816
2026532	69	TBM2019070303	2019-07-01	1375
2213559	69	TBM2019070304	2019-07-01	1102
2329688	69	TBM2019070705	2019-07-08	1065
2773393	69	TBM2019071503	2019-07-09	2024
2070633	69	TBM2019071504	2019-07-09	1729
2029059	69	TBM2019080306	2019-08-05	2215
2773453	69	TBM2019090402	2019-09-24	1755
3029058	69	TBM2019090501	2019-09-16	1923
2238494	69	TBM2019101103	2019-10-15	1183
2353921	69	TBM2019101105	2019-10-15	1757
2984309	69	TBM2019111303	2019-11-14	1052
3062806	69	TBM2019111304	2019-11-14	1084
2847215	69	TBM2019111306	2019-11-14	1759

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2842194	69	TBM2020020406	2020-02-10	1277
2084431	69	TBM2020080105	2020-08-03	1465
2079396	69	TBM2020081206	2020-08-13	3017
2347202	69	TBM2020081207	2020-08-13	1767
2351462	69	TBM2020090902	2020-09-03	1308
2334930	69	TBM2021020703	2021-02-09	1391
2353998	69	TBM2021060902	2021-06-04	1147
2847445	69	TBM2021070703	2021-07-02	2034
2090802	69	TBM2022090903	2022-09-02	1851
3013385	69	TBM2022090904	2022-09-02	1862
2053287	69	TBM2022101103	2022-10-10	1257
2597496	129	1	2001-02-20	1240
2497479	129	1	2003-02-18	1218
2497480	129	1	2003-02-18	1362
2524551	129	1	2003-03-18	1152
2805380	129	1	2003-03-18	1320
2565072	129	1	2010-01-20	1351
2664631	129	1	2010-01-20	1068
2687305	129	1	2010-03-17	1303
2567154	129	1	2011-02-17	1072
2604182	129	1	2011-02-17	2152
2604183	129	1	2011-02-17	4719
2687598	129	1	2011-02-17	3920
2707697	129	1	2011-02-17	1268
2819956	129	1	2011-03-15	1686
2688924	129	10	2003-02-18	1338
2767579	129	10	2003-02-18	1399
2638361	129	10	2011-02-16	1737
2638362	129	10	2011-02-16	1792
2763286	129	10	2011-02-16	1134
2763287	129	10	2011-02-16	1916
2819375	129	10	2011-02-16	2304
2682302	129	10	2011-03-16	1190
2682309	129	10	2011-03-16	3208
2733911	129	10	2011-03-16	1065
2819387	129	10	2011-03-16	1687
2645122	129	10	2022-03-29	1775
2826143	129	10	2022-03-29	2316
2866311	129	10	2022-03-29	1672
2968784	129	12	2001-02-20	1170
2988646	129	12	2010-01-19	1056
2196828	129	2	2009-04-21	1566
2149007	129	2	2009-10-28	1227
2213742	129	2	2009-10-28	1298
2174906	129	2	2011-02-17	1680
2155996	129	3	2001-04-24	1248
2111613	129	3	2002-04-16	1324
2201823	129	3	2002-04-16	1058
2219342	129	3	2002-04-16	2541
2031792	129	4	2010-02-16	1441
2036755	129	4	2010-02-16	1141
2036756	129	4	2010-02-16	1465

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2032866	129	4	2011-02-16	2315
2037831	129	4	2011-02-16	2229
2037832	129	4	2011-02-16	3742
2076934	129	4	2011-02-16	1790
2002031	129	5	2001-03-27	1228
2745204	129	5	2003-03-19	2802
2796027	129	5	2003-03-19	6147
2893212	129	5	2003-03-19	2083
2938122	129	5	2003-03-19	4825
2020793	129	5	2010-01-20	1617
2031289	129	5	2010-01-20	5068
2036293	129	5	2010-01-20	1889
2042435	129	5	2010-03-17	1267
2042436	129	5	2010-03-17	1274
2075559	129	5	2010-03-17	1080
2023620	129	5	2011-02-16	3924
2044644	129	5	2011-02-16	2876
2044645	129	5	2011-02-16	4690
2296350	129	7	2011-02-15	1583
2373800	129	7	2011-02-15	1397
2478770	129	7	2011-02-15	1267
2674141	129	8	2001-02-21	1164
2570271	129	8	2003-02-19	1709
2547637	129	8	2004-02-17	1063
2683938	129	8	2011-02-16	4436
2722570	129	8	2011-02-16	5260
2769424	129	8	2011-02-16	5772
2824157	129	8	2011-02-16	3584
2824158	129	8	2011-02-16	4888
2723808	129	8	2011-03-16	1131
2641281	129	8	2011-04-12	1917
2770740	129	8	2011-04-12	1269
2747256	129	9	2001-03-28	1620
2798111	129	9	2001-03-28	1064
2950298	129	9	2001-03-28	1220
2965421	129	9	2001-03-28	1784
2759297	129	9	2003-02-18	1083
2919614	129	9	2004-03-23	1073
2983500	129	9	2011-01-18	1144
2961377	129	9	2011-02-16	4292
2980331	129	9	2011-02-16	5940
3048929	129	9	2011-02-16	8224
3127393	129	9	2011-02-16	5616
2845840	129	9	2011-03-16	4984
2981135	129	9	2011-03-16	1509
3049769	129	9	2011-03-16	1138
3138489	129	9	2011-03-16	5060
2968145	129	9	2011-04-12	1133
3934005	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: **8.3**

Total data for *Ammonium, Filtered (NH₄)* across all programs: **144892**

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	125	0	125	3533	3.53807	0.08627
5002	162	143	19	62944	0.25737	0.11181

Programs containing flagged data:

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

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: **42173**

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	12409	0.02418	0.00711

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: 3.41578

Total data for *NO₂+3, Filtered* across all programs: **162570**

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	161	0	161	3619	4.44874	0.09903
5002	152	150	2	73105	0.20792	0.09350

Programs containing flagged data:

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

5002 - Florida STORET / WIN

Phosphate, Filtered (PO4)

Quantile Values:

Low: **-0.007** High: **0.79283**

Total data for *Phosphate, Filtered (PO4)* across all programs: **62056**

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	25	0	25	4474	0.55878	0.04029
355	7	0	7	3176	0.22040	0.01128
513	3	0	3	3883	0.07726	0.00483
5002	79	51	28	37586	0.21018	0.12730

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: **4.73866**

Total data for *Total Kjeldahl Nitrogen* across all programs: **119421**

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	0.00335
476	2	0	2	4761	0.04201	0.00167
513	68	66	2	4458	1.52535	0.05694
5002	132	23	109	72126	0.18301	0.11053
5014	3	0	3	1319	0.22745	0.00251

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: **145768**

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	0.00617
103	9	9	0	63	14.28571	0.00617
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	0.00274
303	4	0	4	1234	0.32415	0.00274
476	3	0	3	4561	0.06578	0.00206
479	2	0	2	8831	0.02265	0.00137
479	2	0	2	8826	0.02266	0.00137
513	33	30	3	3368	0.97981	0.02264
513	33	30	3	2710	1.21771	0.02264
514	63	63	0	10720	0.58769	0.04322
514	63	63	0	10762	0.58539	0.04322
4058	2	0	2	2166	0.09234	0.00137
5002	144	16	128	26893	0.53546	0.09879
5002	144	16	128	67058	0.21474	0.09879
5014	2	0	2	538	0.37175	0.00137

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: **86138**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	0.01045
303	9	0	9	1222	0.73650	0.01045
479	3	0	3	8831	0.03397	0.00348
479	3	0	3	8826	0.03399	0.00348
509	1	0	1	6212	0.01610	0.00116
509	1	0	1	6212	0.01610	0.00116
513	23	9	14	3368	0.68290	0.02670

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
513	23	9	14	2710	0.84871	0.02670
514	32	31	1	10762	0.29734	0.03715
514	32	31	1	10720	0.29851	0.03715
5002	53	0	53	67058	0.07904	0.06153
5002	53	0	53	26893	0.19708	0.06153
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	0.00348
10000	3	0	3	2062	0.14549	0.00348

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: 0.72646

Total data for *Total Phosphorus* across all programs: 166078

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	0.00421
355	3	0	3	3437	0.08729	0.00181
476	7	0	7	4876	0.14356	0.00421
479	1	0	1	8870	0.01127	0.00060
513	15	0	15	3833	0.39134	0.00903
5002	215	84	131	60653	0.35448	0.12946
5014	3	0	3	664	0.45181	0.00181

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: **109.968**

Total data for *Chlorophyll a, Corrected for Pheophytin* across all programs: **70033**

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	0.00571
303	2	0	2	1903	0.10510	0.00286
354	1	0	1	2675	0.03738	0.00143
355	1	0	1	8027	0.01246	0.00143
476	2	0	2	2990	0.06689	0.00286
513	16	3	13	4167	0.38397	0.02285
514	6	0	6	1483	0.40459	0.00857
540	3	0	3	465	0.64516	0.00428
5002	35	1	34	22086	0.15847	0.04998
5014	3	0	3	663	0.45249	0.00428
10000	2	0	2	2815	0.07105	0.00286

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**

Total data for *Chlorophyll a, Uncorrected for Pheophytin* across all programs: **93446**

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	0.01284
103	26	26	0	4829	0.53841	0.02782
354	1	0	1	6789	0.01473	0.00107
355	1	0	1	4399	0.02273	0.00107
476	2	0	2	3027	0.06607	0.00214

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
479	1	0	1	1755	0.05698	0.00107
514	27	0	27	9670	0.27921	0.02889
540	3	0	3	453	0.66225	0.00321
4054	1	0	1	5309	0.01884	0.00107
5002	39	0	39	20426	0.19093	0.04174
5014	4	0	4	721	0.55479	0.00428
10000	2	0	2	3419	0.05850	0.00214

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: **695.3225**

Total data for *Colored Dissolved Organic Matter* across all programs: **28366**

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	20	0	20	1675	1.19403	0.07051
5002	9	0	9	8579	0.10491	0.03173

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: **7.80184**

Total data for *Light Extinction Coefficient* across all programs: **16194**

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	25	11	14	10403	0.24032	0.15438
4064	1	1	0	619	0.16155	0.00618
5002	3	0	3	2328	0.12887	0.01853
5058	1	1	0	133	0.75188	0.00618

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: **18.8976**

Total data for *Secchi Depth* across all programs: **352093**

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	0.00284
103	7	2	5	3121	0.22429	0.00199
470	1	0	1	356	0.28090	0.00028
476	1	1	0	3870	0.02584	0.00028
479	2	0	2	8955	0.02233	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	0.00795
3013	3	3	0	1989	0.15083	0.00085
5002	7	6	1	23696	0.02954	0.00199
5033	331	0	331	7891	4.19465	0.09401
10000	1	1	0	3349	0.02986	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**

Total data for *Total Suspended Solids* across all programs: **92997**

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	0.00323
355	1	0	1	3449	0.02899	0.00108
513	5	0	5	4356	0.11478	0.00538
4054	10	0	10	4427	0.22589	0.01075
5002	84	18	66	49318	0.17032	0.09033
5033	7	0	7	15025	0.04659	0.00753

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: **125.8663**

Total data for *Turbidity* across all programs: **317565**

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	0.00031
103	239	11	228	19595	1.21970	0.07526
303	30	0	30	1899	1.57978	0.00945
354	14	0	14	734	1.90736	0.00441
469	5	5	0	481	1.03950	0.00157
505	2	2	0	74	2.70270	0.00063
557	2	2	0	369	0.54201	0.00063
4058	2	0	2	2367	0.08450	0.00063
5002	42	0	42	210172	0.01998	0.01323
5026	10	9	1	410	2.43902	0.00315

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: **855115**

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	276884	0.22681	0.07344
95	49	9	40	15168	0.32305	0.00573
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	2494	0.08019	0.00023
470	2	1	1	939	0.21299	0.00023
476	4	4	0	4422	0.09046	0.00047
477	2	2	0	353	0.56657	0.00023
479	43	37	6	19969	0.21533	0.00503
509	2	1	1	12158	0.01645	0.00023
513	25	22	3	8365	0.29886	0.00292
537	1	1	0	391	0.25575	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	2975	0.13445	0.00047
4054	6	0	6	3344	0.17943	0.00070
4058	6	3	3	2307	0.26008	0.00070
4067	45	37	8	17562	0.25624	0.00526
5002	771	577	194	386155	0.19966	0.09016
5014	3	3	0	259	1.15830	0.00035
5058	2	2	0	266	0.75188	0.00023
10000	8	8	0	6964	0.11488	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: **0.32188** High: **174.99865**

Total data for *Dissolved Oxygen Saturation* across all programs: **157046**

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	0.00191
129	1	0	1	4005	0.02497	0.00064
297	12	0	12	25419	0.04721	0.00764
303	6	0	6	1682	0.35672	0.00382
572	1	0	1	27	3.70370	0.00064
3001	147	127	20	12665	1.16068	0.09360
3013	3	0	3	1160	0.25862	0.00191
4064	1	0	1	619	0.16155	0.00064
4067	32	0	32	17104	0.18709	0.02038
5002	108	30	78	72671	0.14861	0.06877
5008	1	0	1	2948	0.03392	0.00064
5026	1	0	1	445	0.22472	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: **688128**

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	0.05464
95	54	7	47	12884	0.41912	0.00785
103	1	0	1	13822	0.00723	0.00015
129	7	3	4	2320	0.30172	0.00102
303	20	0	20	1882	1.06270	0.00291
354	12	2	10	885	1.35593	0.00174
355	14	6	8	1323	1.05820	0.00203
469	13	0	13	1168	1.11301	0.00189
470	1	0	1	964	0.10373	0.00015
476	4	2	2	4820	0.08299	0.00058
477	8	8	0	350	2.28571	0.00116
479	16	7	9	17572	0.09105	0.00233
509	25	25	0	3472	0.72005	0.00363
513	7	2	5	8309	0.08425	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
4054	2	1	1	3430	0.05831	0.00029
4058	5	1	4	2361	0.21177	0.00073
4065	1	0	1	356	0.28090	0.00015
4067	12	3	9	13727	0.08742	0.00174
5002	652	455	197	290055	0.22478	0.09475

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: **41.3**

Total data for *Salinity* across all programs: **857216**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3	125	0	125	4735	2.63992	0.01458
69	114	0	114	278882	0.04088	0.01330
95	119	0	119	26638	0.44673	0.01388
115	3	0	3	360	0.83333	0.00035
118	16	0	16	535	2.99065	0.00187
297	29	0	29	31841	0.09108	0.00338
354	6	0	6	1284	0.46729	0.00070
456	6	0	6	134	4.47761	0.00070
476	13	0	13	5064	0.25671	0.00152
509	15	0	15	12034	0.12465	0.00175
560	1	0	1	2396	0.04174	0.00012
965	8	0	8	4157	0.19245	0.00093
3000	4	0	4	388	1.03093	0.00047
3001	14	0	14	12721	0.11005	0.00163
3013	4	0	4	2346	0.17050	0.00047
4043	1	0	1	3045	0.03284	0.00012
4049	27	0	27	1354	1.99409	0.00315
4057	3	0	3	230	1.30435	0.00035
4058	2	0	2	2360	0.08475	0.00023
4067	3	0	3	12597	0.02382	0.00035
5002	339	0	339	393520	0.08615	0.03955

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: **60.68372**

Total data for *Specific Conductivity* across all programs: **448494**

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	0.08852
95	1	1	0	2834	0.03529	0.00022
103	1	0	1	10667	0.00937	0.00022
354	11	0	11	425	2.58824	0.00245
355	1	0	1	667	0.14993	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	0.00111
4058	16	0	16	2354	0.67969	0.00357
4067	4	0	4	13474	0.02969	0.00089
5002	408	0	408	125905	0.32405	0.09097
10000	1	0	1	6853	0.01459	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: **907188**

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	0.04553
95	83	4	79	25852	0.32106	0.00915
103	5	0	5	25337	0.01973	0.00055
129	2	1	1	4031	0.04962	0.00022
297	31	0	31	31793	0.09751	0.00342
303	10	0	10	1977	0.50582	0.00110
354	7	0	7	1281	0.54645	0.00077
355	11	11	0	2523	0.43599	0.00121
470	1	0	1	992	0.10081	0.00011
476	2	1	1	5108	0.03915	0.00022
479	4	0	4	18435	0.02170	0.00044
509	8	0	8	12054	0.06637	0.00088
513	3	0	3	8435	0.03557	0.00033
537	1	0	1	505	0.19802	0.00011
540	2	0	2	435	0.45977	0.00022
557	1	0	1	1118	0.08945	0.00011
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	0.00143
3001	74	3	71	12780	0.57903	0.00816
3013	10	0	10	2336	0.42808	0.00110
4043	3	0	3	3038	0.09875	0.00033
4054	6	0	6	3577	0.16774	0.00066
4057	1	0	1	227	0.44053	0.00011
4058	2	0	2	2351	0.08507	0.00022
4064	3	0	3	619	0.48465	0.00033
4067	3	0	3	16167	0.01856	0.00033
5002	1007	745	262	419250	0.24019	0.11100
5008	1	0	1	2948	0.03392	0.00011

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

Continuous WQ

Continuous WQ - Water Quality

Dissolved Oxygen

Quantile Values:

Low: **0.1** High: **13.5**

Total data for *Dissolved Oxygen* across all programs: **14764089**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
7	9	0	9	12424	0.07244	0.00006
354	2107	920	1187	2718099	0.07752	0.01427
355	13981	3183	10798	3290712	0.42486	0.09470
467	119	78	41	250145	0.04757	0.00081
468	122	2	120	231193	0.05277	0.00083
471	64	1	63	861024	0.00743	0.00043
474	88	20	68	1546390	0.00569	0.00060
505	1	1	0	3794	0.02636	0.00001
512	916	459	457	1693353	0.05409	0.00620
4054	2	2	0	2713909	0.00007	0.00001
5006	17	17	0	331786	0.00512	0.00012
5061	130	38	92	172369	0.07542	0.00088
5077	2177	1016	1161	812713	0.26787	0.01475

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: **172.5**

Total data for *Dissolved Oxygen Saturation* across all programs: **14865013**

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	4924	3174	1750	2742937	0.17952	0.03312
355	10749	8299	2450	3296670	0.32606	0.07231
467	269	264	5	256413	0.10491	0.00181
468	231	2	229	247288	0.09341	0.00155
471	458	9	449	868067	0.05276	0.00308
474	1002	180	822	1560236	0.06422	0.00674
505	1	1	0	3748	0.02668	0.00001
512	4442	859	3583	1692309	0.26248	0.02988
4054	10	10	0	2738817	0.00037	0.00007
5006	58	58	0	331832	0.01748	0.00039
5061	228	37	191	183182	0.12447	0.00153
5077	6431	1326	5105	817335	0.78683	0.04326
10004	211	0	211	37788	0.55838	0.00142

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: **15367801**

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	2972887	0.00054	0.00010
355	15813	12983	2830	3335731	0.47405	0.10290
468	315	2	313	255069	0.12350	0.00205
471	4572	0	4572	1015343	0.45029	0.02975
474	359	7	352	1800123	0.01994	0.00234
512	377	60	317	1603983	0.02350	0.00245
4054	915	0	915	2664582	0.03434	0.00595
5061	4534	0	4534	172130	2.63406	0.02950
5077	138	0	138	811570	0.01700	0.00090

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: **16256296**

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	0.00034
7	219	0	219	71822	0.30492	0.00135
354	12590	0	12590	3079076	0.40889	0.07745
355	407	0	407	3449560	0.01180	0.00250
474	1302	0	1302	1828958	0.07119	0.00801
4054	833	0	833	2697485	0.03088	0.00512
5006	9	0	9	345783	0.00260	0.00006
5077	39	0	39	804812	0.00485	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** High: **33.809**

Total data for *Water Temperature* across all programs: **38554731**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
2	4	0	4	86204	0.00464	0.00001
5	8882	2644	6238	6186529	0.14357	0.02304
7	238	6	232	102088	0.23313	0.00062
296	2790	0	2790	3987025	0.06998	0.00724
354	11508	73	11435	3163588	0.36376	0.02985
355	13349	13014	335	3543780	0.37669	0.03462
467	1449	1396	53	291592	0.49693	0.00376
468	2826	2131	695	282964	0.99871	0.00733
471	11840	10534	1306	1305258	0.90710	0.03071
474	7900	186	7714	1970127	0.40099	0.02049
505	12	11	1	3870	0.31008	0.00003
512	1817	291	1526	1827129	0.09945	0.00471
986	292	0	292	8692018	0.00336	0.00076
989	104	1	103	1824357	0.00570	0.00027
4054	6464	2371	4093	2833605	0.22812	0.01677
5005	294	0	294	43791	0.67137	0.00076
5006	1423	1422	1	346219	0.41101	0.00369
5061	163	160	3	172828	0.09431	0.00042
5077	2945	1864	1081	846090	0.34807	0.00764
10003	51	0	51	41374	0.12327	0.00013
10004	233	0	233	37780	0.61673	0.00060

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: **506**

Total data for *Turbidity* across all programs: **14686359**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
354	1735	0	1735	2910275	0.05962	0.01181
355	5833	0	5833	3228216	0.18069	0.03972
467	99	0	99	278916	0.03549	0.00067
468	396	0	396	217166	0.18235	0.00270
471	448	0	448	949720	0.04717	0.00305
473	26	0	26	8263	0.31466	0.00018
474	51	0	51	1544088	0.00330	0.00035
512	4405	0	4405	1483210	0.29699	0.02999
4054	1356	0	1356	2645422	0.05126	0.00923
5006	257	0	257	330305	0.07781	0.00175
5077	5	0	5	818152	0.00061	0.00003
10003	37	0	37	41169	0.08987	0.00025
10004	1	0	1	37639	0.00266	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