

# Water Column Indicator Quantile Report

## SEACAR Analysis

Last compiled on 12 September, 2024

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# Overview

## Purpose

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

## Relevant file locations

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

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

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

## Process steps

### IQ\_Report\_Render.R & IQ\_Report.Rmd

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

## Summary

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

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

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

#### Nekton

*Indicator: Nekton - All\_NEKTON\_Parameters-2024-Sep-04.txt*

- Standard Length
- Presence/Absence
- Count

#### Discrete WQ

*Indicator: Nutrients*

- Ammonia, Un-ionized (NH<sub>3</sub>)
  - *Combined\_WQ\_WC\_NUT\_Ammonia\_Un-ionized\_NH3-2024-Sep-04.txt*
- Ammonium, Filtered (NH<sub>4</sub>)
  - *Combined\_WQ\_WC\_NUT\_NH4\_Filtered-2024-Sep-04.txt*
- Nitrate (NO<sub>3</sub>)
  - *Combined\_WQ\_WC\_NUT\_Nitrate\_N-2024-Sep-04.txt*
- Nitrite (NO<sub>2</sub>)
  - *Combined\_WQ\_WC\_NUT\_Nitrite\_N-2024-Sep-04.txt*
- Nitrogen, organic
  - *Combined\_WQ\_WC\_NUT\_Nitrogen\_organic-2024-Sep-04.txt*
- NO<sub>2</sub>+3, Filtered
  - *Combined\_WQ\_WC\_NUT\_NO2\_3\_Filtered-2024-Sep-04.txt*
- Phosphate, Filtered (PO<sub>4</sub>)
  - *Combined\_WQ\_WC\_NUT\_PO4\_Filtered-2024-Sep-04.txt*
- Total Kjeldahl Nitrogen
  - *Combined\_WQ\_WC\_NUT\_Total\_Kjeldahl\_Nitrogen\_TKN-2024-Sep-04.txt*
- Total Nitrogen (All)
  - *Combined\_WQ\_WC\_NUT\_Total\_Nitrogen-2024-Sep-04.txt*
- Total Nitrogen (Calculated)
  - *Combined\_WQ\_WC\_NUT\_Total\_Nitrogen-2024-Sep-04.txt*
- Total Phosphorus
  - *Combined\_WQ\_WC\_NUT\_Total\_Phosphorus-2024-Sep-04.txt*

*Indicator: Water Clarity*

- Chlorophyll a, Corrected for Pheophytin
  - *Combined\_WQ\_WC\_NUT\_Chlorophyll\_a\_corrected\_for\_pheophytin-2024-Sep-04.txt*
- Chlorophyll a, Uncorrected for Pheophytin
  - *Combined\_WQ\_WC\_NUT\_Chlorophyll\_a\_uncorrected\_for\_pheophytin-2024-Sep-04.txt*
- Colored Dissolved Organic Matter
  - *Combined\_WQ\_WC\_NUT\_Colored\_dissolved\_organic\_matter\_CDOM-2024-Sep-04.txt*
- Light Extinction Coefficient
  - *Combined\_WQ\_WC\_NUT\_Light\_Extinction\_Coefficient-2024-Sep-04.txt*
- Secchi Depth
  - *Combined\_WQ\_WC\_NUT\_Secchi\_Depth-2024-Sep-04.txt*
- Total Suspended Solids
  - *Combined\_WQ\_WC\_NUT\_Total\_Suspended\_Solids\_TSS-2024-Sep-04.txt*
- Turbidity

- *Combined\_WQ\_WC\_NUT\_Turbidity-2024-Sep-04.txt*

*Indicator:* Water Quality

- Dissolved Oxygen
  - *Combined\_WQ\_WC\_NUT\_Dissolved\_Oxygen-2024-Sep-04.txt*
- Dissolved Oxygen Saturation
  - *Combined\_WQ\_WC\_NUT\_Dissolved\_Oxygen\_Saturation-2024-Sep-04.txt*
- pH
  - *Combined\_WQ\_WC\_NUT\_pH-2024-Sep-04.txt*
- Salinity
  - *Combined\_WQ\_WC\_NUT\_Salinity-2024-Sep-04.txt*
- Specific Conductivity
  - *Combined\_WQ\_WC\_NUT\_Specific\_Conductivity-2024-Sep-04.txt*
- Water Temperature
  - *Combined\_WQ\_WC\_NUT\_Water\_Temperature-2024-Sep-04.txt*

### **Continuous WQ**

*Indicator:* Water Quality

- Dissolved Oxygen
  - *Combined\_WQ\_WC\_NUT\_cont\_Dissolved\_Oxygen\_AllRegions-2024-Sep-04.txt*
- Dissolved Oxygen Saturation
  - *Combined\_WQ\_WC\_NUT\_cont\_Dissolved\_Oxygen\_Saturation\_AllRegions-2024-Sep-04.txt*
- pH
  - *Combined\_WQ\_WC\_NUT\_cont\_pH\_AllRegions-2024-Sep-04.txt*
- Salinity
  - *Combined\_WQ\_WC\_NUT\_cont\_Salinity\_AllRegions-2024-Sep-04.txt*
- Water Temperature
  - *Combined\_WQ\_WC\_NUT\_cont\_Water\_Temperature\_AllRegions-2024-Sep-04.txt*

*Indicator:* Water Clarity

- Turbidity
  - *Combined\_WQ\_WC\_NUT\_cont\_Turbidity\_AllRegions-2024-Sep-04.txt*

## Summary Tables

*q\_low*: Value corresponding to the qval\_low quantile for the parameter in the DDI export.

*q\_high*: Value corresponding to the qval\_high quantile for the parameter in the DDI export.

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

*n\_tot*: Total number of records in the DDI export for the parameter.

*n\_q\_low*: Number of records in the DDI export that are below q\_low for the parameter.

*n\_q\_high*: Number of records in the DDI export that are above q\_high for the parameter.

*pct\_flagged*: Proportion of total records in the DDI export for the parameter which have been flagged as above q\_high, or below q\_low.

### Nekton

*Indicator*: **Nekton**

Table 1: Indicator Quantile Overview

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

### Discrete WQ

*Indicator*: **Nutrients**

Table 2: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Ammonia, Un-ionized (NH3)	0.00	0.48	0.03	523	1	1	0.38
Ammonium, Filtered (NH4)	-0.02	5.10	0.09	141701	140	142	0.20
Nitrate (NO3)	0.00	0.96	0.02	11230	0	12	0.11
Nitrite (NO2)	0.00	0.30	0.00	40529	2	1	0.01
Nitrogen, organic	0.03	2.70	0.57	7121	6	7	0.18
NO2+3, Filtered	0.00	2.84	0.05	158859	150	159	0.19
Phosphate, Filtered (PO4)	-0.01	0.75	0.04	61936	51	62	0.18
Total Kjeldahl Nitrogen	0.00	4.81	4.35	116678	89	117	0.18
Total Nitrogen	0.00	4.13	0.51	144066	119	145	0.18
Total Nitrogen	0.00	2.78	0.38	85439	41	86	0.15
Total Phosphorus	0.00	0.73	0.16	162889	84	160	0.15

*Indicator*: **Water Clarity**

Table 3: Indicator Quantile Overview

ParameterName	q low	q high	mean	n tot	n q low	n q high	pct flagged
Chlorophyll a, Corrected for Pheophytin	0.0	110.00	5.83	67378	4	64	0.10
Chlorophyll a, Uncorrected for Pheophytin	0.0	111.09	16.01	92145	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	699.37	26.40	26275	0	27	0.10
Light Extinction Coefficient	0.0	7.94	0.56	15549	13	16	0.19
Secchi Depth	0.1	19.00	1.36	349800	42	326	0.11
Total Suspended Solids	0.0	177.00	13.19	89602	18	86	0.12
Turbidity	0.0	126.00	4.91	314717	29	313	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	0.23	14.00	6.55	851876	816	824	0.19
Dissolved Oxygen Saturation	0.34	174.99	79.66	154357	155	155	0.20
pH	5.30	9.30	7.92	684760	642	595	0.18
Salinity	0.00	41.10	24.55	853617	0	816	0.10
Specific Conductivity	0.01	60.71	15.58	445730	398	445	0.19
Water Temperature	6.60	33.90	24.42	902307	882	838	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	13.40	6.12	14177099	5296	13493	0.13
Dissolved Oxygen Saturation	1.6	170.52	82.53	14278823	13641	14279	0.20
pH	5.0	9.00	7.80	14780540	12293	13973	0.18
Salinity	0.0	40.80	24.05	15646341	0	15450	0.10
Water Temperature	8.1	33.80	25.53	37840970	35523	35048	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	518	11.36	14112218	1	14085	0.1

# Nekton

## Low Quantile

### Standard Length

Table 7: Flagged Values - Low Indicator Quantile: 1

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
3571	69	ANM2005070209	2005-07-14	0.9
33837	69	APM1998071401	1998-07-14	0.8
194228	69	APM1999101203	1999-10-12	0.7
36526	69	APM2000091204	2000-09-12	0.9
207676	69	APM2000121205	2000-12-12	0.9
49034	69	APM2001010701	2001-01-11	0.7
120970	69	APM2001010701	2001-01-11	0.9
116600	69	APM2001010702	2001-01-11	0.9
36407	69	APM2001010703	2001-01-11	0.9
41519	69	APM2001010706	2001-01-11	0.9
60386	69	APM2001010706	2001-01-11	0.9
116788	69	APM2001010706	2001-01-11	0.7
18362	69	APM2001020503	2001-02-07	0.7
62839	69	APM2001060707	2001-06-15	0.8
180740	69	APM2001090406	2001-09-10	0.9
209883	69	APM2001090408	2001-09-10	0.9
133347	69	APM2002010307	2002-01-08	0.9
65041	69	APM2002010406	2002-01-09	0.8
84884	69	APM2002010406	2002-01-09	0.9
104057	69	APM2002010406	2002-01-09	0.9
91327	69	APM2002010407	2002-01-09	0.9
36785	69	APM2002010408	2002-01-09	0.9
36003	69	APM2002030207	2002-03-07	0.9
105750	69	APM2002080705	2002-08-14	0.9
74498	69	APM2002091101	2002-09-30	0.9
20130	69	APM2002120507	2002-12-11	0.8
20151	69	APM2002120507	2002-12-11	0.9
73783	69	APM2002120508	2002-12-11	0.9
49907	69	APM2003010602	2003-01-14	0.9
55012	69	APM2003011004	2003-01-22	0.9
68221	69	APM2003020801	2003-02-13	0.7
33479	69	APM2003030201	2003-03-10	0.9
87483	69	APM2003030606	2003-03-14	0.6
142523	69	APM2003030705	2003-03-18	0.9
97618	69	APM2003060401	2003-06-10	0.5
58052	69	APM2003060903	2003-06-24	0.7
334402	69	APM2003060903	2003-06-24	0.8
30882	69	APM2003091107	2003-09-25	0.9
106699	69	APM2003110202	2003-11-04	0.9
305560	69	APM2003110208	2003-11-04	0.8
521005	69	APM2003110208	2003-11-04	0.9
338080	69	APM2004010304	2004-01-08	0.9
20454	69	APM2004010305	2004-01-08	0.8
91856	69	APM2004010305	2004-01-08	0.9
70736	69	APM2004010404	2004-01-09	0.9



RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
178373	69	APM2004051101	2004-05-20	0.7
184931	69	APM2004051101	2004-05-20	0.9
193067	69	APM2004051101	2004-05-20	0.8
203496	69	APM2004051101	2004-05-20	0.9
212723	69	APM2004051101	2004-05-20	0.7
218256	69	APM2004051101	2004-05-20	0.8
396609	69	APM2004051101	2004-05-20	0.9
51587	69	APM2004060401	2004-06-07	0.8
178643	69	APM2004060401	2004-06-07	0.8
197403	69	APM2004060401	2004-06-07	0.9
198067	69	APM2004060401	2004-06-07	0.9
200233	69	APM2004060401	2004-06-07	0.9
421825	69	APM2004060401	2004-06-07	0.7
222565	69	APM2004070906	2004-07-19	0.9
390558	69	APM2004073401	2004-07-20	0.9
193266	69	APM2004080701	2004-08-20	0.8
227819	69	APM2004080701	2004-08-20	0.7
239214	69	APM2004080701	2004-08-20	0.9
469252	69	APM2004091005	2004-09-24	0.9
94923	69	APM2004110106	2004-11-01	0.9
432993	69	APM2004110106	2004-11-01	0.7
523812	69	APM2004110106	2004-11-01	0.8
17165	69	APM2004110203	2004-11-03	0.8
197049	69	APM2004110203	2004-11-03	0.9
90997	69	APM2004110204	2004-11-03	0.9
91177	69	APM2004110509	2004-11-15	0.9
24160	69	APM2004120402	2004-12-08	0.9
39864	69	APM2004120801	2004-12-16	0.9
480319	69	APM2004120801	2004-12-16	0.9
419074	69	APM2005050303	2005-05-09	0.9
105694	69	APM2005060103	2005-06-02	0.8
107992	69	APM2005060302	2005-06-07	0.8
133640	69	APM2005080401	2005-08-09	0.9
26484	69	APM2005080501	2005-08-10	0.8
135237	69	APM2005080503	2005-08-10	0.9
70300	69	APM2005090101	2005-09-01	0.5
103933	69	APM2005090101	2005-09-01	0.9
131406	69	APM2005090101	2005-09-01	0.6
214952	69	APM2005090101	2005-09-01	0.6
13079	69	APM2005120305	2005-12-02	0.9
183395	69	APM2006061105	2006-06-20	0.9
226873	69	APM2006080701	2006-08-17	0.9
164813	69	APM2006080702	2006-08-17	0.9
124054	69	APM2006080708	2006-08-17	0.9
141411	69	APM2006080708	2006-08-17	0.7
81754	69	APM2006080904	2006-08-21	0.8
136501	69	APM2006080904	2006-08-21	0.9
136502	69	APM2006080904	2006-08-21	0.9
187553	69	APM2006080904	2006-08-21	0.9
64896	69	APM2006081301	2006-08-31	0.9
111184	69	APM2006090201	2006-09-06	0.8
5042	69	APM2006090704	2006-09-15	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
121853	69	APM2006100506	2006-10-10	0.9
67223	69	APM2006110503	2006-11-09	0.9
51766	69	APM2006110504	2006-11-09	0.9
253481	69	APM2006110504	2006-11-09	0.8
179831	69	APM2006110906	2006-11-20	0.8
190691	69	APM2006110906	2006-11-20	0.7
371794	69	APM2006120810	2006-12-12	0.9
504746	69	APM2007020407	2007-02-12	0.9
223518	69	APM2007060603	2007-06-12	0.9
346527	69	APM2007060603	2007-06-12	0.8
426185	69	APM2007060603	2007-06-12	0.9
239464	69	APM2007060604	2007-06-12	0.8
293561	69	APM2007070401	2007-07-09	0.9
82053	69	APM2007070602	2007-07-12	0.9
128825	69	APM2007070602	2007-07-12	0.8
472534	69	APM2007070901	2007-07-18	0.9
191890	69	APM2007070902	2007-07-18	0.9
462292	69	APM2007080209	2007-08-03	0.9
498121	69	APM2007080209	2007-08-03	0.8
445557	69	APM2007080210	2007-08-03	0.9
127839	69	APM2007080902	2007-08-15	0.9
133103	69	APM2007080902	2007-08-15	0.8
85848	69	APM2007080905	2007-08-15	0.9
320868	69	APM2007080907	2007-08-15	0.8
234794	69	APM2007080908	2007-08-15	0.9
173184	69	APM2007090402	2007-09-10	0.8
377878	69	APM2007090505	2007-09-11	0.9
142750	69	APM2007100501	2007-10-10	0.9
245566	69	APM2007110701	2007-11-15	0.7
179132	69	APM2007110704	2007-11-15	0.9
143275	69	APM2007111106	2007-11-28	0.8
190785	69	APM2007111106	2007-11-28	0.9
166708	69	APM2007111108	2007-11-28	0.7
403363	69	APM2007111108	2007-11-28	0.9
432334	69	APM2007111108	2007-11-28	0.8
201235	69	APM2007120201	2007-12-04	0.9
213669	69	APM2007120709	2007-12-11	0.9
191840	69	APM2007121003	2007-12-18	0.9
199079	69	APM2008010901	2008-01-22	0.9
152725	69	APM2008020502	2008-02-11	0.9
176572	69	APM2008030304	2008-03-06	0.9
218523	69	APM2008030304	2008-03-06	0.8
156074	69	APM2008050807	2008-05-19	0.9
292633	69	APM2008051304	2008-05-28	0.9
156930	69	APM2008080210	2008-08-06	0.9
254669	69	APM2008081003	2008-08-20	0.8
339195	69	APM2008081003	2008-08-20	0.7
266787	69	APM2008081004	2008-08-20	0.8
277502	69	APM2008081307	2008-08-28	0.9
413994	69	APM2008081307	2008-08-28	0.9
407366	69	APM2008091002	2008-09-17	0.7
246292	69	APM2008101004	2008-10-17	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
321329	69	APM2008101004	2008-10-17	0.9
329065	69	APM2008101004	2008-10-17	0.8
116209	69	APM2008101006	2008-10-17	0.7
294628	69	APM2008101006	2008-10-17	0.8
745933	69	APM2008101006	2008-10-17	0.9
211624	69	APM2008110301	2008-11-04	0.7
262077	69	APM2008110301	2008-11-04	0.9
243114	69	APM2008110304	2008-11-04	0.9
755680	69	APM2008110304	2008-11-04	0.7
157384	69	APM2008110306	2008-11-04	0.9
255135	69	APM2008110306	2008-11-04	0.8
177656	69	APM2008110307	2008-11-04	0.9
447941	69	APM2008110307	2008-11-04	0.8
217644	69	APM2008120802	2008-12-16	0.8
283359	69	APM2008120802	2008-12-16	0.9
197932	69	APM2008120803	2008-12-16	0.9
283360	69	APM2008120803	2008-12-16	0.7
298245	69	APM2008120805	2008-12-16	0.9
193083	69	APM2008120806	2008-12-16	0.9
338552	69	APM2009010705	2009-01-15	0.8
397179	69	APM2009010707	2009-01-15	0.9
211416	69	APM2009010708	2009-01-15	0.7
83660	69	APM2009020604	2009-02-12	0.9
120001	69	APM2009020904	2009-02-24	0.9
276713	69	APM2009030403	2009-03-10	0.9
428391	69	APM2009040604	2009-04-15	0.9
180119	69	APM2009050205	2009-05-06	0.9
140096	69	APM2009050507	2009-05-14	0.9
499003	69	APM2009051105	2009-05-27	0.9
162392	69	APM2009060102	2009-06-01	0.8
737961	69	APM2009060601	2009-06-11	0.9
314701	69	APM2009061102	2009-06-24	0.9
330155	69	APM2009070701	2009-07-16	0.9
95588	69	APM2009071004	2009-07-28	0.9
141134	69	APM2009071005	2009-07-28	0.9
1090386	69	APM2009090502	2009-09-16	0.9
254413	69	APM2009090907	2009-09-24	0.8
394591	69	APM2009090907	2009-09-24	0.9
163457	69	APM2009100808	2009-10-14	0.9
274121	69	APM2009100808	2009-10-14	0.8
440787	69	APM2009110709	2009-11-17	0.9
226429	69	APM2009110802	2009-11-18	0.9
880987	69	APM2009110802	2009-11-18	0.8
70415	69	APM2009110807	2009-11-18	0.8
373023	69	APM2009110807	2009-11-18	0.9
149956	69	APM2009120503	2009-12-09	0.8
193124	69	APM2009120503	2009-12-09	0.9
554488	69	APM2009120504	2009-12-09	0.9
246135	69	APM2009120601	2009-12-14	0.8
391013	69	APM2009120601	2009-12-14	0.9
459529	69	APM2009120601	2009-12-14	0.7
399008	69	APM2009120602	2009-12-14	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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163920	69	APM2010010303	2010-01-11	0.7
365362	69	APM2010010303	2010-01-11	0.6
410318	69	APM2010010303	2010-01-11	0.8
439137	69	APM2010010303	2010-01-11	0.9
445533	69	APM2010010303	2010-01-11	0.5
817935	69	APM2010010303	2010-01-11	0.9
405354	69	APM2010010304	2010-01-11	0.9
164016	69	APM2010010601	2010-01-19	0.7
362645	69	APM2010010601	2010-01-19	0.9
71218	69	APM2010010602	2010-01-19	0.8
71219	69	APM2010010602	2010-01-19	0.9
120640	69	APM2010010603	2010-01-19	0.9
191048	69	APM2010010603	2010-01-19	0.8
234362	69	APM2010010605	2010-01-19	0.8
814773	69	APM2010010605	2010-01-19	0.9
435598	69	APM2010010606	2010-01-19	0.9
123869	69	APM2010030405	2010-03-05	0.9
846539	69	APM2010030608	2010-03-09	0.9
86741	69	APM2010030801	2010-03-19	0.9
135507	69	APM2010051004	2010-05-18	0.9
129618	69	APM2010051205	2010-05-20	0.6
317498	69	APM2010051205	2010-05-20	0.9
438066	69	APM2010100605	2010-10-11	0.9
250558	69	APM2010100608	2010-10-11	0.8
362756	69	APM2010101202	2010-10-27	0.8
240727	69	APM2010110206	2010-11-02	0.9
632319	69	APM2010110206	2010-11-02	0.7
83971	69	APM2010120809	2010-12-15	0.9
347009	69	APM2010120809	2010-12-15	0.9
208037	69	APM2011030710	2011-03-16	0.8
186636	69	APM2011040504	2011-04-08	0.9
144915	69	APM2011060602	2011-06-10	0.9
170944	69	APM2011080808	2011-08-15	0.9
374553	69	APM2011090202	2011-09-08	0.9
1266726	69	APM2011090703	2011-09-15	0.9
441571	69	APM2011100505	2011-10-12	0.9
494213	69	APM2011100505	2011-10-12	0.8
197628	69	APM2011110106	2011-11-01	0.7
85171	69	APM2011110208	2011-11-02	0.8
279385	69	APM2011120608	2011-12-08	0.7
321241	69	APM2011120608	2011-12-08	0.9
443944	69	APM2012010204	2012-01-05	0.9
300626	69	APM2012010205	2012-01-05	0.9
139190	69	APM2012010607	2012-01-17	0.8
338744	69	APM2012010607	2012-01-17	0.8
414268	69	APM2012010607	2012-01-17	0.7
338240	69	APM2012020204	2012-02-02	0.9
435683	69	APM2012020204	2012-02-02	0.8
130213	69	APM2012040203	2012-04-03	0.7
253610	69	APM2012040203	2012-04-03	0.8
271822	69	APM2012040203	2012-04-03	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
343973	69	APM2012040207	2012-04-03	0.9
365113	69	APM2012040207	2012-04-03	0.8
212239	69	APM2012050108	2012-05-01	0.7
358308	69	APM2012050209	2012-05-02	0.9
567361	69	APM2012050304	2012-05-03	0.9
337409	69	APM2012050901	2012-05-18	0.9
128273	69	APM2012060602	2012-06-12	0.9
137147	69	APM2012060602	2012-06-12	0.6
216960	69	APM2012060602	2012-06-12	0.9
361413	69	APM2012060602	2012-06-12	0.8
541765	69	APM2012060602	2012-06-12	0.7
312847	69	APM2012060901	2012-06-14	0.8
544851	69	APM2012060905	2012-06-14	0.6
277163	69	APM2012070902	2012-07-23	0.8
654021	69	APM2012071401	2012-07-31	0.8
323257	69	APM2012080104	2012-08-02	0.9
348598	69	APM2012090605	2012-09-14	0.9
189120	69	APM2012100709	2012-10-16	0.8
322330	69	APM2012110608	2012-11-07	0.9
289861	69	APM2012110903	2012-11-15	0.9
347099	69	APM2012110903	2012-11-15	0.5
426766	69	APM2012110903	2012-11-15	0.8
448628	69	APM2012110903	2012-11-15	0.7
229172	69	APM2012111003	2012-11-16	0.9
135412	69	APM2013010601	2013-01-14	0.9
384952	69	APM2013010705	2013-01-15	0.9
577567	69	APM2013030701	2013-03-15	0.9
146109	69	APM2013040401	2013-04-08	0.9
274603	69	APM2013040402	2013-04-08	0.8
336744	69	APM2013080905	2013-08-12	0.9
189898	69	APM2013090501	2013-09-12	0.8
895231	69	APM2013090501	2013-09-12	0.9
363444	69	APM2013090502	2013-09-12	0.7
366474	69	APM2013090704	2013-09-13	0.8
374981	69	APM2013110304	2013-11-05	0.9
483020	69	APM2013110606	2013-11-12	0.9
216124	69	APM2013120103	2013-12-02	0.9
70523	69	APM2013120106	2013-12-02	0.9
156129	69	APM2013120106	2013-12-02	0.7
412446	69	APM2013120106	2013-12-02	0.8
453277	69	APM2013120106	2013-12-02	0.9
159598	69	APM2013120407	2013-12-05	0.9
296134	69	APM2013120407	2013-12-05	0.8
571871	69	APM2013120808	2013-12-11	0.8
400255	69	APM2014020805	2014-02-14	0.9
320489	69	APM2014070801	2014-07-11	0.8
409711	69	APM2014071505	2014-07-24	0.7
278556	69	APM2014080702	2014-08-11	0.8
292851	69	APM2014090302	2014-09-04	0.8
636404	69	APM2014090507	2014-09-10	0.8
341753	69	APM2014100204	2014-10-02	0.9
255685	69	APM2014100303	2014-10-03	0.7

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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380835	69	APM2014100303	2014-10-03	0.9
384513	69	APM2014100303	2014-10-03	0.9
414898	69	APM2014100303	2014-10-03	0.8
640580	69	APM2014100303	2014-10-03	0.8
272792	69	APM2014100803	2014-10-15	0.9
274697	69	APM2014101104	2014-10-23	0.8
288938	69	APM2014101104	2014-10-23	0.7
356902	69	APM2014101104	2014-10-23	0.9
596963	69	APM2014120705	2014-12-11	0.9
311022	69	APM2015050405	2015-05-06	0.9
276068	69	APM2015050505	2015-05-07	0.8
351935	69	APM2015050505	2015-05-07	0.9
639306	69	APM2015050505	2015-05-07	0.9
295238	69	APM2015060106	2015-06-01	0.9
431667	69	APM2015070204	2015-07-02	0.8
588423	69	APM2015070204	2015-07-02	0.6
427522	69	APM2015090601	2015-09-09	0.9
153783	69	APM2015090605	2015-09-09	0.7
285140	69	APM2015090605	2015-09-09	0.9
204488	69	APM2015090906	2015-09-16	0.9
326162	69	APM2015090906	2015-09-16	0.8
390573	69	APM2015090906	2015-09-16	0.7
462362	69	APM2015110101	2015-11-02	0.9
469392	69	APM2015120306	2015-12-07	0.8
457298	69	APM2015120402	2015-12-08	0.9
519485	69	APM2016010505	2016-01-13	0.8
279845	69	APM2016020202	2016-02-01	0.9
294524	69	APM2016020202	2016-02-01	0.8
375379	69	APM2016020203	2016-02-01	0.8
444099	69	APM2016020203	2016-02-01	0.7
519281	69	APM2016020203	2016-02-01	0.6
630945	69	APM2016020203	2016-02-01	0.9
491707	69	APM2016020204	2016-02-01	0.7
660100	69	APM2016020204	2016-02-01	0.9
709619	69	APM2016020406	2016-02-02	0.7
213092	69	APM2016040507	2016-04-07	0.9
280120	69	APM2016060804	2016-06-09	0.8
372373	69	APM2016061103	2016-06-15	0.7
484379	69	APM2016061103	2016-06-15	0.8
528864	69	APM2016061103	2016-06-15	0.9
753505	69	APM2016061103	2016-06-15	0.6
375063	69	APM2016080103	2016-08-02	0.8
379978	69	APM2016100503	2016-10-10	0.7
344822	69	APM2016120205	2016-12-02	0.9
354399	69	APM2016120402	2016-12-06	0.8
197211	69	APM2016120608	2016-12-08	0.9
325122	69	APM2016120704	2016-12-12	0.8
442044	69	APM2017010306	2017-01-05	0.8
385683	69	APM2017010401	2017-01-06	0.7
567759	69	APM2017010401	2017-01-06	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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424735	69	APM2017020110	2017-02-01	0.9
344538	69	APM2017020409	2017-02-02	0.9
546886	69	APM2017030306	2017-03-07	0.8
266265	69	APM2017040107	2017-04-04	0.9
388057	69	APM2017040107	2017-04-04	0.9
654710	69	APM2017060405	2017-06-05	0.6
636709	69	APM2017061302	2017-06-23	0.9
694436	69	APM2017080304	2017-08-02	0.8
452864	69	APM2017090503	2017-09-13	0.6
466474	69	APM2017090504	2017-09-13	0.9
675662	69	APM2017090608	2017-09-13	0.9
1251202	69	APM2017090801	2017-09-14	0.8
513011	69	APM2017110105	2017-11-01	0.8
757771	69	APM2017110105	2017-11-01	0.8
773726	69	APM2017110105	2017-11-01	0.9
796409	69	APM2017110105	2017-11-01	0.7
2211777	69	APM2018010805	2018-01-16	0.9
2808313	69	APM2018010805	2018-01-16	0.8
1684982	69	APM2018020701	2018-02-14	0.8
2810279	69	APM2018020701	2018-02-14	0.9
2211891	69	APM2018020805	2018-02-14	0.9
2396448	69	APM2018030104	2018-03-05	0.9
1948481	69	APM2018080708	2018-08-13	0.8
1351187	69	APM2018100101	2018-10-01	0.7
1730643	69	APM2018100101	2018-10-01	0.8
2322105	69	APM2018100101	2018-10-01	0.9
1760684	69	APM2018101001	2018-10-23	0.9
2104902	69	APM2018101001	2018-10-23	0.5
2048547	69	APM2018110601	2018-11-07	0.7
2304767	69	APM2018110601	2018-11-07	0.8
1760866	69	APM2018110602	2018-11-07	0.9
2125769	69	APM2018120601	2018-12-11	0.9
2125781	69	APM2018120601	2018-12-11	0.9
2231154	69	APM2019010201	2019-01-03	0.9
2378595	69	APM2019010201	2019-01-03	0.8
860098	69	APM2019010202	2019-01-03	0.8
1363768	69	APM2019010202	2019-01-03	0.9
2050559	69	APM2019010202	2019-01-03	0.8
2352779	69	APM2019010202	2019-01-03	0.9
1277014	69	APM2019010203	2019-01-03	0.7
1960023	69	APM2019010203	2019-01-03	0.8
2050999	69	APM2019010203	2019-01-03	0.9
2055638	69	APM2019010203	2019-01-03	0.8
2231613	69	APM2019010203	2019-01-03	0.5
2241532	69	APM2019010203	2019-01-03	0.7
2281018	69	APM2019010203	2019-01-03	0.9
1861473	69	APM2019010502	2019-01-09	0.9
1671403	69	APM2019020207	2019-02-05	0.8
2049298	69	APM2019020207	2019-02-05	0.9
2423962	69	APM2019020804	2019-02-21	0.8
1687671	69	APM2019070406	2019-07-08	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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1793516	69	APM2019080504	2019-08-06	0.9
2321316	69	APM2019080601	2019-08-06	0.7
1959441	69	APM2019080705	2019-08-07	0.7
1706083	69	APM2019080802	2019-08-08	0.7
1774097	69	APM2019080802	2019-08-08	0.8
1710405	69	APM2019081402	2019-08-20	0.7
1714929	69	APM2019081402	2019-08-20	0.9
1353540	69	APM2019090201	2019-09-05	0.9
2149917	69	APM2019090201	2019-09-05	0.9
2387377	69	APM2019090201	2019-09-05	0.8
1454020	69	APM2019090403	2019-09-06	0.8
1664163	69	APM2019090403	2019-09-06	0.5
2298743	69	APM2019090506	2019-09-09	0.9
2180817	69	APM2019090703	2019-09-07	0.9
1939546	69	APM2019110101	2019-11-04	0.9
2019287	69	APM2019110701	2019-11-15	0.8
2102560	69	APM2019110701	2019-11-15	0.9
2016492	69	APM2019120202	2019-12-02	0.9
2550859	69	APM2019120202	2019-12-02	0.7
1494269	69	APM2019120203	2019-12-02	0.8
1323724	69	APM2019120303	2019-12-03	0.8
2224235	69	APM2020010105	2020-01-06	0.9
2499475	69	APM2020010105	2020-01-06	0.8
1949824	69	APM2020010106	2020-01-06	0.9
1980116	69	APM2020010210	2020-01-06	0.7
1999690	69	APM2020010210	2020-01-06	0.8
2524772	69	APM2020010210	2020-01-06	0.9
2276852	69	APM2020010212	2020-01-06	0.9
1978018	69	APM2020010302	2020-01-07	0.9
2559217	69	APM2020010302	2020-01-07	0.7
2370131	69	APM2020040201	2020-04-01	0.9
2180424	69	APM2020060403	2020-06-10	0.9
2183305	69	APM2020070901	2020-07-16	0.9
2183306	69	APM2020070901	2020-07-16	0.7
1948640	69	APM2020090706	2020-09-25	0.9
2049816	69	APM2020100205	2020-10-06	0.9
2044336	69	APM2021050801	2021-05-25	0.7
2121260	69	APM2021050801	2021-05-25	0.8
2240519	69	APM2021050801	2021-05-25	0.9
2964656	69	APM2021050801	2021-05-25	0.6
1329316	69	APM2021060602	2021-06-08	0.9
2548865	69	APM2021070403	2021-07-08	0.9
2182674	69	APM2021070404	2021-07-08	0.8
2190191	69	APM2021070404	2021-07-08	0.9
2259203	69	APM2021070404	2021-07-08	0.9
2542940	69	APM2021070404	2021-07-08	0.8
2548868	69	APM2021070404	2021-07-08	0.7
2859939	69	APM2021070404	2021-07-08	0.7
2907868	69	APM2021070404	2021-07-08	0.6
2182698	69	APM2021070405	2021-07-08	0.7
2300309	69	APM2021070405	2021-07-08	0.8



RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2891078	69	APM2021090301	2021-09-10	0.9
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2961831	69	APM2021100102	2021-10-01	0.9
2295132	69	APM2022010201	2022-01-13	0.7
2275151	69	APM2022010202	2022-01-13	0.8
2431357	69	APM2022010303	2022-01-19	0.9
2151580	69	APM2022060304	2022-06-02	0.8
2368312	69	APM2022070205	2022-07-05	0.8
2113530	69	APM2022070801	2022-07-19	0.5
2128599	69	APM2022070801	2022-07-19	0.7
2360493	69	APM2022070801	2022-07-19	0.6
2497246	69	APM2022070801	2022-07-19	0.8
2974355	69	APM2022070801	2022-07-19	0.9
2350016	69	APM2022071004	2022-07-22	0.9
2733107	69	APM2022071004	2022-07-22	0.8
2367631	69	APM2022071202	2022-07-25	0.9
2527821	69	APM2022080202	2022-08-05	0.7
2336794	69	APM2022080203	2022-08-05	0.6
2011054	69	APM2022110503	2022-11-03	0.8
2013238	69	APM2022110503	2022-11-03	0.7
2994995	69	APM2022110503	2022-11-03	0.6
3002150	69	APM2022110503	2022-11-03	0.9
2590932	69	APM2022110706	2022-11-07	0.9
2767364	69	APM2022110706	2022-11-07	0.8
526552	69	BBM2009070103	2009-07-10	0.9
732954	69	BBM2009070108	2009-07-10	0.9
801112	69	BBM2009070203	2009-07-13	0.8
808002	69	BBM2009100107	2009-10-26	0.8
394621	69	BBM2010050303	2010-05-06	0.8
453103	69	BBM2011050201	2011-05-10	0.3
450649	69	BBM2013110201	2013-11-07	0.8
462922	69	BBM2013110201	2013-11-07	0.9
397881	69	BBM2014060103	2014-06-17	0.9
641636	69	BBM2014060110	2014-06-17	0.9
511012	69	BBM2014070303	2014-07-18	0.9
577178	69	BBM2014070407	2014-07-22	0.9
485944	69	BBM2015110202	2015-11-16	0.9
1923385	69	BBM2019060102	2019-06-14	0.9
2719360	69	BBM2019060115	2019-06-14	0.9
2070876	69	BBM2019070303	2019-07-23	0.9
1492615	69	BBM2020090106	2020-09-03	0.9
2681663	69	BBM2021070105	2021-07-08	0.9
580215	69	CHM1989050906	1989-05-09	0.9
701619	69	CHM1991051307	1991-05-13	0.9
420801	69	CHM1991100101	1991-10-01	0.9
777181	69	CHM1991102110	1991-10-21	0.9
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559308	69	CHM1992102605	1992-10-26	0.9
888330	69	CHM1992102701	1992-10-27	0.8
524107	69	CHM1992102704	1992-10-27	0.8
302856	69	CHM1992102706	1992-10-27	0.9
333152	69	CHM1992102707	1992-10-27	0.9

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329366	69	CHM1994100406	1994-10-04	0.8
906864	69	CHM1994100406	1994-10-04	0.6
917798	69	CHM1994100406	1994-10-04	0.5
546463	69	CHM1994100407	1994-10-04	0.6
737278	69	CHM1994100407	1994-10-04	0.8
824235	69	CHM1994100407	1994-10-04	0.9
947186	69	CHM1994100407	1994-10-04	0.7
764889	69	CHM1994100408	1994-10-04	0.7
518152	69	CHM1994100409	1994-10-04	0.7
540334	69	CHM1994100409	1994-10-04	0.9
893799	69	CHM1994100409	1994-10-04	0.8
953818	69	CHM1994100409	1994-10-04	0.9
529778	69	CHM1994100410	1994-10-04	0.9
784228	69	CHM1994100413	1994-10-04	0.8
329424	69	CHM1994101010	1994-10-10	0.9
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636230	69	CHM1995102408	1995-10-24	0.9
439931	69	CHM1996101807	1996-10-18	0.9
795928	69	CHM1997121902	1997-12-19	0.7
879469	69	CHM1998100703	1998-10-07	0.9
270908	69	CHM1999100502	1999-10-05	0.8
444490	69	CHM1999100502	1999-10-05	0.9
500904	69	CHM1999100502	1999-10-05	0.9
578405	69	CHM1999100502	1999-10-05	0.8
599177	69	CHM1999100502	1999-10-05	0.7
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475693	69	CHM2000100404	2000-10-04	0.9
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392545	69	CHM2002100401	2002-10-04	0.9
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527105	69	CHM2005091108	2005-09-06	0.8
435383	69	CHM2006071305	2006-07-24	0.7
352481	69	CHM2006110504	2006-11-09	0.9
678950	69	CHM2007060405	2007-06-13	0.9
515836	69	CHM2009051008	2009-05-07	0.6
671562	69	CHM2010050906	2010-05-13	0.8
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752067	69	CHM2010060211	2010-06-09	0.9
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1166464	69	CHM2010060211	2010-06-09	0.7
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556154	69	CHM2010100201	2010-10-12	0.9

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1269869	69	CHM2010100404	2010-10-15	0.9
1534519	69	CHM2010100404	2010-10-15	0.6
817793	69	CHM2010100409	2010-10-15	0.9
747018	69	CHM2011041303	2011-04-22	0.6
802218	69	CHM2011041303	2011-04-22	0.8
845595	69	CHM2011041303	2011-04-22	0.7
1005482	69	CHM2011041303	2011-04-22	0.9
806831	69	CHM2011061305	2011-06-24	0.9
591083	69	CHM2011071307	2011-07-01	0.9
1685379	69	CHM2011080405	2011-08-08	0.9
899221	69	CHM2012080601	2012-08-13	0.9
1037308	69	CHM2012080607	2012-08-13	0.8
1066082	69	CHM2012080607	2012-08-13	0.9
861967	69	CHM2012081008	2012-08-22	0.8
1027731	69	CHM2012081008	2012-08-22	0.9
689328	69	CHM2012090401	2012-09-20	0.9
719350	69	CHM2012090506	2012-09-18	0.8
782974	69	CHM2012100805	2012-10-03	0.8
630509	69	CHM2013101505	2013-10-28	0.8
678505	69	CHM2014010406	2014-01-23	0.8
596833	69	CHM2014020701	2014-02-04	0.8
1613611	69	CHM2014020701	2014-02-04	0.7
1027057	69	CHM2014070101	2014-07-03	0.7
1024382	69	CHM2014100603	2014-10-29	0.9
1638202	69	CHM2014100607	2014-10-29	0.7
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712724	69	CHM2015110203	2015-11-10	0.9
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943143	69	CHM2016050708	2016-05-11	0.8
850589	69	CHM2016080602	2016-08-19	0.7
961233	69	CHM2016080602	2016-08-19	0.8
552564	69	CHM2016090602	2016-09-08	0.9
653374	69	CHM2016090602	2016-09-08	0.8
809824	69	CHM2016090602	2016-09-08	0.5
840701	69	CHM2016090603	2016-09-08	0.8
628305	69	CHM2016090605	2016-09-08	0.7
1761654	69	CHM2016090605	2016-09-08	0.8
903334	69	CHM2016090606	2016-09-08	0.9
1393018	69	CHM2016100508	2016-10-10	0.6
617996	69	CHM2016110803	2016-11-01	0.9
714062	69	CHM2017070405	2017-07-11	0.9
832515	69	CHM2017080508	2017-08-04	0.6
1158478	69	CHM2017080508	2017-08-04	0.5
2180005	69	CHM2018061006	2018-06-08	0.7
2107250	69	CHM2018091202	2018-09-04	0.9
1263095	69	CHM2018120608	2018-12-18	0.7
2497665	69	CHM2018120608	2018-12-18	0.9
2108767	69	CHM2019080704	2019-08-14	0.9

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1322809	69	CHM2020100201	2020-10-27	0.8
1947026	69	CHM2020100201	2020-10-27	0.9
1997723	69	CHM2020100201	2020-10-27	0.9
2272517	69	CHM2020100201	2020-10-27	0.8
2893968	69	CHM2020100201	2020-10-27	0.7
2908228	69	CHM2020100201	2020-10-27	0.9
3036805	69	CHM2020100201	2020-10-27	0.7
1943002	69	CHM2020100406	2020-10-16	0.8
1778446	69	CHM2020100801	2020-10-02	0.7
2700813	69	CHM2022070602	2022-07-08	0.9
3041232	69	CHM2022101304	2022-10-24	0.9
2123960	69	CKM1996061806	1996-06-18	0.9
893271	69	CKM1996061902	1996-06-19	0.9
938762	69	CKM1996071102	1996-07-11	0.9
966023	69	CKM1996071505	1996-07-15	0.8
1344454	69	CKM1996071703	1996-07-17	0.8
698433	69	CKM1996080201	1996-08-02	0.9
805116	69	CKM1996091007	1996-09-10	0.9
1087592	69	CKM1996091007	1996-09-10	0.8
1115475	69	CKM1996101104	1996-10-11	0.8
1073481	69	CKM1997050512	1997-05-05	0.7
896550	69	CKM1997062305	1997-06-23	0.9
1138850	69	CKM2001090902	2001-09-20	0.9
1235339	69	CKM2001090903	2001-09-20	0.9
910637	69	CKM2002030105	2002-03-06	0.9
472846	69	CKM2003020904	2003-02-20	0.8
784343	69	CKM2003090310	2003-09-08	0.9
934606	69	CKM2003090310	2003-09-08	0.7
679719	69	CKM2004050703	2004-05-17	0.9
768484	69	CKM2004050703	2004-05-17	0.8
1113545	69	CKM2004050703	2004-05-17	0.7
1328054	69	CKM2004050703	2004-05-17	0.6
1406512	69	CKM2004050703	2004-05-17	0.8
2266615	69	CKM2004050703	2004-05-17	0.7
2283227	69	CKM2004050703	2004-05-17	0.9
777555	69	CKM2004050905	2004-05-25	0.8
940188	69	CKM2005050403	2005-05-09	0.7
979880	69	CKM2005060701	2005-06-14	0.9
2710321	69	CKM2005060701	2005-06-14	0.7
1026642	69	CKM2005060702	2005-06-14	0.5
1192000	69	CKM2005060703	2005-06-14	0.9
648478	69	CKM2005110409	2005-11-03	0.8
1202495	69	CKM2006060604	2006-06-16	0.9
1038948	69	CKM2006070501	2006-07-06	0.9
1200005	69	CKM2006080408	2006-08-04	0.9
635840	69	CKM2007060704	2007-06-14	0.9
1123366	69	CKM2007080702	2007-08-14	0.8
2908598	69	CKM2007080702	2007-08-14	0.9
773148	69	CKM2007090101	2007-09-04	0.9

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988920	69	CKM2008080205	2008-08-04	0.9
1138325	69	CKM2008080402	2008-08-05	0.9
2619931	69	CKM2009080603	2009-08-17	0.6
1188740	69	CKM2009080702	2009-08-18	0.8
1280252	69	CKM2009110106	2009-11-02	0.6
1276688	69	CKM2010050306	2010-05-11	0.9
1369145	69	CKM2010070702	2010-07-14	0.9
864108	69	CKM2010070704	2010-07-14	0.6
956499	69	CKM2010070704	2010-07-14	0.9
1005933	69	CKM2010070704	2010-07-14	0.4
1498363	69	CKM2010070704	2010-07-14	0.5
2852974	69	CKM2010070704	2010-07-14	0.7
934248	69	CKM2011050707	2011-05-12	0.7
1961077	69	CKM2011090606	2011-09-12	0.9
701960	69	CKM2012010502	2012-01-10	0.9
1076885	69	CKM2012040603	2012-04-11	0.7
1616632	69	CKM2012070802	2012-07-13	0.9
1487075	69	CKM2012070803	2012-07-13	0.8
1158444	69	CKM2012080406	2012-08-06	0.9
1036744	69	CKM2013060605	2013-06-18	0.9
1513099	69	CKM2013060605	2013-06-18	0.8
839709	69	CKM2013060606	2013-06-18	0.9
1030304	69	CKM2013060606	2013-06-18	0.8
1286848	69	CKM2013090301	2013-09-11	0.9
1352819	69	CKM2014060304	2014-06-03	0.7
1598293	69	CKM2014060304	2014-06-03	0.6
2019177	69	CKM2014060304	2014-06-03	0.9
1655901	69	CKM2014080202	2014-08-01	0.7
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764084	69	CKM2015020605	2015-02-09	0.8
1350852	69	CKM2016090401	2016-09-08	0.8
1891633	69	CKM2016090401	2016-09-08	0.6
1148598	69	CKM2016120608	2016-12-09	0.8
1006467	69	CKM2017050805	2017-05-17	0.7
1399418	69	CKM2017080702	2017-08-11	0.4
2009252	69	CKM2017080709	2017-08-11	0.9
2085033	69	CKM2018010201	2018-01-09	0.9
1919082	69	CKM2018060505	2018-06-07	0.8
3025877	69	CKM2018090804	2018-09-12	0.9
1757876	69	CKM2019060807	2019-06-17	0.8
2436873	69	CKM2019060807	2019-06-17	0.7
2027090	69	CKM2019070705	2019-07-09	0.9
3075163	69	CKM2019080705	2019-08-08	0.9
2451315	69	CZM2006020107	2006-02-07	0.9
2188529	69	CZM2007070104	2007-07-31	0.9
1279671	69	HIM2010090101	2010-09-16	0.9
1428558	69	IRM1990052106	1990-05-21	0.8
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2050265	69	IRM1995092501	1995-09-25	0.9

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1312398	69	IRM2003020309	2003-02-06	0.9
1342763	69	IRM2003030408	2003-03-11	0.9
579972	69	IRM2003070201	2003-07-02	0.8
1873387	69	IRM2003070503	2003-07-08	0.8
860917	69	IRM2004010605	2004-01-20	0.8
900559	69	IRM2004010605	2004-01-20	0.9
939956	69	IRM2004010608	2004-01-20	0.7
1911599	69	IRM2004060806	2004-06-17	0.9
1146399	69	IRM2005010410	2005-01-10	0.9
875829	69	IRM2005060806	2005-06-15	0.9
1300947	69	IRM2005100402	2005-10-11	0.9
1515440	69	IRM2005100408	2005-10-11	0.8
1170088	69	IRM2005110107	2005-11-01	0.8
887921	69	IRM2006050504	2006-05-09	0.8
877377	69	IRM2006070105	2006-07-03	0.9
2068959	69	IRM2006090306	2006-09-08	0.8
1139728	69	IRM2006090902	2006-09-22	0.9
1693338	69	IRM2006090902	2006-09-22	0.9
576143	69	IRM2006110405	2006-11-08	0.9
1384538	69	IRM2006110405	2006-11-08	0.9
1727194	69	IRM2007080908	2007-08-09	0.8
1300709	69	IRM2007101602	2007-10-24	0.7
1237205	69	IRM2007101604	2007-10-24	0.9
2102065	69	IRM2007101604	2007-10-24	0.9
1124677	69	IRM2009070602	2009-07-10	0.8
859152	69	IRM2009100807	2009-10-09	0.7
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1576513	69	IRM2012080106	2012-08-02	0.9
1333574	69	IRM2013010801	2013-01-23	0.6
1333575	69	IRM2013010801	2013-01-23	0.9
1346224	69	IRM2013010801	2013-01-23	0.8
1458779	69	IRM2013010801	2013-01-23	0.7
1134270	69	IRM2013020803	2013-02-21	0.9
1275670	69	IRM2013081103	2013-08-19	0.7
1497048	69	IRM2013091303	2013-09-24	0.9
1655664	69	IRM2013110405	2013-11-05	0.9
1203225	69	IRM2014020108	2014-02-03	0.8
1375493	69	IRM2014020702	2014-02-11	0.6
1385130	69	IRM2014040901	2014-04-15	0.9
1397403	69	IRM2014051101	2014-05-13	0.9
1064963	69	IRM2014051104	2014-05-13	0.9
1554503	69	IRM2014070302	2014-07-02	0.9
1461395	69	IRM2014091302	2014-09-19	0.8
1289213	69	IRM2014101406	2014-10-16	0.9
1414581	69	IRM2015040906	2015-04-14	0.9
1441280	69	IRM2015041402	2015-04-21	0.8
2002881	69	IRM2015041402	2015-04-21	0.9
2004106	69	IRM2015051301	2015-05-19	0.9

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1480959	69	IRM2016091103	2016-09-28	0.9
1078720	69	IRM2016091105	2016-09-28	0.9
1575977	69	IRM2016120707	2016-12-12	0.9
1116418	69	IRM2017010306	2017-01-09	0.9
1579947	69	IRM2017010306	2017-01-09	0.8
1585511	69	IRM2017030405	2017-03-06	0.9
1628884	69	IRM2017030408	2017-03-06	0.9
2086277	69	IRM2017060206	2017-06-02	0.9
1295814	69	IRM2017081101	2017-08-18	0.8
1665624	69	IRM2017090803	2017-09-19	0.6
1750487	69	IRM2017091203	2017-09-25	0.9
2124312	69	IRM2017100108	2017-10-02	0.9
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2288709	69	IRM2018020707	2018-02-21	0.9
1954130	69	IRM2018030202	2018-03-02	0.9
2497866	69	IRM2018030401	2018-03-06	0.9
1707323	69	IRM2018050802	2018-05-17	0.9
2464800	69	IRM2018050802	2018-05-17	0.8
2756154	69	IRM2018070503	2018-07-09	0.9
2490689	69	IRM2018080403	2018-08-06	0.9
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2674662	69	IRM2018091002	2018-09-19	0.9
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2231594	69	IRM2018120606	2018-12-10	0.9
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1989358	69	IRM2019060405	2019-06-07	0.9
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1768313	69	IRM2019101305	2019-10-24	0.9
2200893	69	IRM2020010902	2020-01-17	0.8
2659982	69	IRM2020020607	2020-02-17	0.9
1958474	69	IRM2020080702	2020-08-11	0.9
2254582	69	IRM2020100801	2020-10-14	0.8
1980926	69	IRM2020100804	2020-10-14	0.9
1242619	69	IRM2020120402	2020-12-07	0.5
1309269	69	IRM2020120402	2020-12-07	0.9
1962904	69	IRM2020120402	2020-12-07	0.6
1962905	69	IRM2020120402	2020-12-07	0.8
2666771	69	IRM2020120402	2020-12-07	0.7
2159251	69	JXM2002090404	2002-09-11	0.9
1341860	69	JXM2002090804	2002-09-19	0.8
1145756	69	JXM2002120503	2002-12-16	0.9
1747632	69	JXM2002120503	2002-12-16	0.8
799368	69	JXM2003030206	2003-03-05	0.9
1303428	69	JXM2003050503	2003-05-13	0.9
1319034	69	JXM2003050601	2003-05-15	0.9
1245676	69	JXM2003050602	2003-05-15	0.8
1175063	69	JXM2003110305	2003-11-12	0.9
1542136	69	JXM2003110308	2003-11-12	0.8

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1468461	69	JXM2004110307	2004-11-04	0.9
1488170	69	JXM2004110307	2004-11-04	0.8
1503660	69	JXM2004110509	2004-11-10	0.8
1454701	69	JXM2004111104	2004-11-23	0.9
1468486	69	JXM2004111104	2004-11-23	0.8
1392194	69	JXM2004120207	2004-12-02	0.9
1732215	69	JXM2004120207	2004-12-02	0.8
777570	69	JXM2004120208	2004-12-02	0.9
814136	69	JXM2004120208	2004-12-02	0.8
1363935	69	JXM2004120208	2004-12-02	0.7
1384818	69	JXM2004120209	2004-12-02	0.8
1414435	69	JXM2004120209	2004-12-02	0.6
1420596	69	JXM2004120209	2004-12-02	0.9
1829419	69	JXM2004120209	2004-12-02	0.7
856727	69	JXM2004120604	2004-12-09	0.9
1539512	69	JXM2005050408	2005-05-11	0.8
930550	69	JXM2005060708	2005-06-20	0.5
1428756	69	JXM2005080501	2005-08-08	0.8
1551980	69	JXM2005090404	2005-09-19	0.9
1160061	69	JXM2005090505	2005-09-09	0.9
1371123	69	JXM2005100309	2005-10-26	0.8
1500748	69	JXM2005110201	2005-11-08	0.8
1357939	69	JXM2005110310	2005-11-09	0.8
1765165	69	JXM2005110310	2005-11-09	0.9
1506456	69	JXM2005120202	2005-12-13	0.7
1597695	69	JXM2006010506	2006-01-06	0.9
925854	69	JXM2006010508	2006-01-06	0.9
1202051	69	JXM2006050301	2006-05-08	0.9
1607530	69	JXM2006070303	2006-07-14	0.7
1204800	69	JXM2006070402	2006-07-20	0.7
1610507	69	JXM2006100403	2006-10-26	0.8
1076589	69	JXM2007090107	2007-09-10	0.7
1166419	69	JXM2007110506	2007-11-13	0.8
1279119	69	JXM2007110506	2007-11-13	0.9
1498504	69	JXM2007110506	2007-11-13	0.7
1546623	69	JXM2008020406	2008-02-21	0.9
1712214	69	JXM2008020406	2008-02-21	0.9
1779664	69	JXM2008030402	2008-03-17	0.9
1499872	69	JXM2008050403	2008-05-08	0.8
1769634	69	JXM2008060305	2008-06-06	0.9
702057	69	JXM2008120204	2008-12-08	0.6
702058	69	JXM2008120204	2008-12-08	0.9
1578276	69	JXM2009010206	2009-01-09	0.9
1716223	69	JXM2009010208	2009-01-09	0.9
1482845	69	JXM2009010305	2009-01-12	0.9
1593522	69	JXM2009010305	2009-01-12	0.9
1277103	69	JXM2009080201	2009-08-24	0.9
1403988	69	JXM2009080201	2009-08-24	0.7
1768304	69	JXM2009080201	2009-08-24	0.9



RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2114042	69	JXM2009080201	2009-08-24	0.7
2130489	69	JXM2009080201	2009-08-24	0.8
852157	69	JXM2010020306	2010-02-02	0.9
1505831	69	JXM2010020306	2010-02-02	0.9
1396053	69	JXM2010040407	2010-04-20	0.9
1097131	69	JXM2010050405	2010-05-18	0.8
1158949	69	JXM2010050405	2010-05-18	0.6
1403299	69	JXM2010050405	2010-05-18	0.7
1765154	69	JXM2010050405	2010-05-18	0.9
2079127	69	JXM2010050405	2010-05-18	0.6
2131738	69	JXM2010050405	2010-05-18	0.9
1721947	69	JXM2010060302	2010-06-02	0.8
1698319	69	JXM2010081303	2010-08-27	0.9
1382651	69	JXM2010090208	2010-09-09	0.9
1239077	69	JXM2010090403	2010-09-08	0.9
1241362	69	JXM2010100209	2010-10-08	0.9
2079299	69	JXM2010111203	2010-11-23	0.9
1590691	69	JXM2011020202	2011-02-03	0.8
2079306	69	JXM2011020508	2011-02-23	0.8
1335837	69	JXM2011081303	2011-08-19	0.9
922131	69	JXM2011081305	2011-08-19	0.8
1049406	69	JXM2011081305	2011-08-19	0.7
2151860	69	JXM2011081305	2011-08-19	0.9
1454878	69	JXM2012010301	2012-01-25	0.9
1349796	69	JXM2012010404	2012-01-05	0.9
2088163	69	JXM2012030304	2012-03-28	0.9
1193101	69	JXM2012030409	2012-03-16	0.9
1381212	69	JXM2012040401	2012-04-10	0.9
1802310	69	JXM2012070305	2012-07-23	0.8
2158552	69	JXM2012070305	2012-07-23	0.9
985117	69	JXM2012071301	2012-07-31	0.7
1375570	69	JXM2012071301	2012-07-31	0.8
1446671	69	JXM2012071301	2012-07-31	0.7
1513235	69	JXM2012071301	2012-07-31	0.9
1730358	69	JXM2012091302	2012-09-13	0.8
1768735	69	JXM2012091302	2012-09-13	0.9
1396320	69	JXM2012100409	2012-10-15	0.8
1217990	69	JXM2013020201	2013-02-27	0.8
1499051	69	JXM2013020406	2013-02-22	0.8
1274692	69	JXM2013080306	2013-08-27	0.9
1397543	69	JXM2013080306	2013-08-27	0.9
1439569	69	JXM2013080306	2013-08-27	0.8
1489042	69	JXM2013090503	2013-09-23	0.9
1337230	69	JXM2013110509	2013-11-19	0.7
1377768	69	JXM2013110509	2013-11-19	0.9
1412512	69	JXM2014050408	2014-05-29	0.9
825616	69	JXM2014070304	2014-07-10	0.8
1416972	69	JXM2014070304	2014-07-10	0.6
1420332	69	JXM2014070304	2014-07-10	0.9
1090341	69	JXM2014100503	2014-10-02	0.7
1597814	69	JXM2015020402	2015-02-09	0.9
1297168	69	JXM2015040503	2015-04-28	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1419151	69	JXM2015040503	2015-04-28	0.9
1152170	69	JXM2015040506	2015-04-28	0.9
1212022	69	JXM2015040506	2015-04-28	0.7
1682899	69	JXM2015090308	2015-09-22	0.8
1447254	69	JXM2015110406	2015-11-23	0.9
1390413	69	JXM2016050601	2016-05-04	0.8
1222000	69	JXM2016060308	2016-06-02	0.7
1418025	69	JXM2016060308	2016-06-02	0.7
1419832	69	JXM2016060308	2016-06-02	0.9
2159802	69	JXM2016060308	2016-06-02	0.6
1390415	69	JXM2016060309	2016-06-02	0.7
2089655	69	JXM2016060309	2016-06-02	0.9
1488818	69	JXM2016100504	2016-10-14	0.8
1025170	69	JXM2017030202	2017-03-16	0.9
1483361	69	JXM2017030202	2017-03-16	0.7
1483362	69	JXM2017030202	2017-03-16	0.8
1340283	69	JXM2017050303	2017-05-01	0.7
1470556	69	JXM2017050303	2017-05-01	0.5
1950204	69	JXM2017050303	2017-05-01	0.9
2089808	69	JXM2017050303	2017-05-01	0.8
1026176	69	JXM2017090201	2017-09-07	0.8
870687	69	JXM2017090407	2017-09-21	0.7
1267193	69	JXM2017090508	2017-09-06	0.5
1330702	69	JXM2017090508	2017-09-06	0.9
1599702	69	JXM2017090508	2017-09-06	0.7
1619279	69	JXM2017090508	2017-09-06	0.8
2089833	69	JXM2017090508	2017-09-06	0.6
1316702	69	JXM2017090509	2017-09-06	0.5
1685253	69	JXM2017090509	2017-09-06	0.8
2171789	69	JXM2017090509	2017-09-06	0.9
1411851	69	JXM2017110409	2017-11-20	0.7
1553139	69	JXM2017110409	2017-11-20	0.8
2089852	69	JXM2017110409	2017-11-20	0.9
1036950	69	JXM2017120610	2017-12-05	0.7
1380784	69	JXM2017120610	2017-12-05	0.9
2146165	69	JXM2018011201	2018-01-17	0.9
2152947	69	JXM2018020306	2018-02-15	0.9
1652258	69	JXM2018040207	2018-04-24	0.8
2514739	69	JXM2018040207	2018-04-24	0.9
2518676	69	JXM2018040402	2018-04-25	0.8
2902257	69	JXM2018050509	2018-05-14	0.9
2308303	69	JXM2018060309	2018-06-06	0.5
2614401	69	JXM2018060309	2018-06-06	0.9
2247848	69	JXM2018070304	2018-07-05	0.8
2311669	69	JXM2018070304	2018-07-05	0.9
2328129	69	JXM2018070304	2018-07-05	0.7
2276543	69	JXM2018090206	2018-09-10	0.9
2541991	69	JXM2018090206	2018-09-10	0.7
2393356	69	JXM2018100304	2018-10-12	0.9
2533802	69	JXM2018100304	2018-10-12	0.8
2393357	69	JXM2018100305	2018-10-12	0.5
2393358	69	JXM2018100305	2018-10-12	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2524247	69	JXM2018100305	2018-10-12	0.7
2564964	69	JXM2018100305	2018-10-12	0.6
2573724	69	JXM2018100305	2018-10-12	0.9
2253850	69	JXM2018100502	2018-10-11	0.7
2863479	69	JXM2018100502	2018-10-11	0.8
2897469	69	JXM2018100502	2018-10-11	0.9
2405015	69	JXM2018110407	2018-11-19	0.9
2575458	69	JXM2018120308	2018-12-18	0.9
2543272	69	JXM2019010408	2019-01-09	0.8
2549225	69	JXM2019010408	2019-01-09	0.7
2559926	69	JXM2019010408	2019-01-09	0.9
2284224	69	JXM2019020306	2019-02-07	0.7
2582465	69	JXM2019030402	2019-03-11	0.9
2329524	69	JXM2019050304	2019-05-16	0.7
2501305	69	JXM2019050304	2019-05-16	0.8
2866638	69	JXM2019050304	2019-05-16	0.9
2019441	69	JXM2019050506	2019-05-15	0.8
2377133	69	JXM2019080202	2019-08-08	0.9
2698234	69	JXM2019080301	2019-08-05	0.8
1760398	69	JXM2019110407	2019-11-18	0.8
1883008	69	JXM2019110407	2019-11-18	0.9
2675339	69	JXM2020010304	2020-01-06	0.9
3045176	69	JXM2020100406	2020-10-13	0.9
2246942	69	JXM2020110303	2020-11-20	0.5
2425586	69	JXM2020110303	2020-11-20	0.7
2575091	69	JXM2020110303	2020-11-20	0.8
2592008	69	JXM2020110303	2020-11-20	0.6
2091839	69	JXM2020120306	2020-12-02	0.8
2883209	69	JXM2020120306	2020-12-02	0.9
2351449	69	JXM2021020506	2021-02-10	0.8
2284967	69	JXM2021040403	2021-04-23	0.7
2762376	69	JXM2021050307	2021-05-10	0.9
2778080	69	JXM2021050307	2021-05-10	0.9
2778081	69	JXM2021050307	2021-05-10	0.9
2324561	69	JXM2021060304	2021-06-02	0.9
2046548	69	JXM2021070301	2021-07-13	0.9
2417847	69	JXM2021070303	2021-07-13	0.9
2048379	69	JXM2021070304	2021-07-13	0.9
2537385	69	JXM2021070304	2021-07-13	0.8
2725998	69	JXM2022090406	2022-09-27	0.7
3055964	69	JXM2022090409	2022-09-27	0.9
2565851	69	JXM2022110302	2022-11-17	0.8
2736236	69	JXM2022110302	2022-11-17	0.9
2032107	69	JXM2022110303	2022-11-17	0.6
2528088	69	JXM2022110303	2022-11-17	0.5
2561008	69	JXM2022110303	2022-11-17	0.9
2974878	69	JXM2022110303	2022-11-17	0.8
2047328	69	JXM2022110307	2022-11-17	0.7
2050383	69	JXM2022110307	2022-11-17	0.8
2714938	69	JXM2022110307	2022-11-17	0.9
2042192	69	JXM2022110407	2022-11-21	0.9
2974880	69	JXM2022110407	2022-11-21	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1609362	69	KYM2000080102	2000-08-01	0.9
1429323	69	SAM2014060101	2014-06-19	0.9
2253366	69	SAM2016110103	2016-11-15	0.9
1121858	69	SAM2019070209	2019-07-18	0.9
2163142	69	TBM1989052302	1989-05-23	0.9
1321869	69	TBM1989092703	1989-09-27	0.9
1383684	69	TBM1989092707	1989-09-27	0.8
1696349	69	TBM1989092707	1989-09-27	0.9
1608460	69	TBM1989092708	1989-09-27	0.9
968836	69	TBM1989092709	1989-09-27	0.9
1480975	69	TBM1989092709	1989-09-27	0.9
2143302	69	TBM1989092709	1989-09-27	0.8
2244972	69	TBM1989092709	1989-09-27	0.7
978488	69	TBM1989101002	1989-10-10	0.8
1100230	69	TBM1989101002	1989-10-10	0.9
1694859	69	TBM1989101008	1989-10-10	0.8
1651872	69	TBM1989101101	1989-10-11	0.9
1678800	69	TBM1989101102	1989-10-11	0.8
1329791	69	TBM1989101104	1989-10-11	0.9
1682045	69	TBM1990042307	1990-04-23	0.9
1742121	69	TBM1990060501	1990-06-05	0.9
1772618	69	TBM1990060501	1990-06-05	0.7
1839893	69	TBM1990060501	1990-06-05	0.8
1361687	69	TBM1990060502	1990-06-05	0.6
1839894	69	TBM1990060502	1990-06-05	0.9
1547129	69	TBM1990060503	1990-06-05	0.8
1685064	69	TBM1990060503	1990-06-05	0.9
1707353	69	TBM1990060503	1990-06-05	0.8
627189	69	TBM1990060703	1990-06-07	0.9
1873418	69	TBM1990101502	1990-10-15	0.9
1453472	69	TBM1990111310	1990-11-13	0.9
1690585	69	TBM1990120312	1990-12-03	0.8
2239746	69	TBM1990120312	1990-12-03	0.8
1708831	69	TBM1991042908	1991-04-29	0.8
1904309	69	TBM1991042908	1991-04-29	0.6
1918257	69	TBM1991042908	1991-04-29	0.7
1079420	69	TBM1991042913	1991-04-29	0.7
2287143	69	TBM1991042913	1991-04-29	0.9
1905449	69	TBM1991052007	1991-05-20	0.9
1638923	69	TBM1991100701	1991-10-07	0.9
1555739	69	TBM1991100702	1991-10-07	0.9
2068112	69	TBM1991100702	1991-10-07	0.8
2129302	69	TBM1991100702	1991-10-07	0.9
1617683	69	TBM1992102605	1992-10-26	0.9
1426880	69	TBM1992102607	1992-10-26	0.9
1293250	69	TBM1993051815	1993-05-18	0.8
759034	69	TBM1993051901	1993-05-19	0.9
1783245	69	TBM1993051926	1993-05-19	0.9
2081109	69	TBM1993051926	1993-05-19	0.8
1179663	69	TBM1993060201	1993-06-02	0.9
1200041	69	TBM1993060201	1993-06-02	0.9
1755445	69	TBM1994052305	1994-05-23	0.9

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1506507	69	TBM1994052306	1994-05-23	0.9
1503108	69	TBM1994092601	1994-09-26	0.9
1252476	69	TBM1997041718	1997-04-17	0.7
1268475	69	TBM1997041718	1997-04-17	0.8
2149379	69	TBM1997041718	1997-04-17	0.9
1001050	69	TBM1997080714	1997-08-07	0.9
1413578	69	TBM1997080714	1997-08-07	0.8
1506627	69	TBM1997080714	1997-08-07	0.5
1413620	69	TBM1997091217	1997-09-12	0.9
1662450	69	TBM1997100808	1997-10-08	0.9
1759068	69	TBM1998052017	1998-05-20	0.9
1767872	69	TBM1998061804	1998-06-18	0.9
1804686	69	TBM1999061412	1999-06-14	0.7
1059005	69	TBM1999081201	1999-08-12	0.8
1545250	69	TBM1999091405	1999-09-14	0.9
2219482	69	TBM2000041316	2000-04-13	0.9
1567337	69	TBM2000041317	2000-04-13	0.8
1324958	69	TBM2000081004	2000-08-10	0.9
1337094	69	TBM2000081004	2000-08-10	0.5
1551112	69	TBM2000081004	2000-08-10	0.6
1808330	69	TBM2000081004	2000-08-10	0.8
2111790	69	TBM2000081004	2000-08-10	0.6
1132315	69	TBM2001080708	2001-08-07	0.9
1345302	69	TBM2001080710	2001-08-07	0.7
1283648	69	TBM2002101802	2002-10-29	0.9
2209236	69	TBM2004050114	2004-05-04	0.9
1760039	69	TBM2004101302	2004-10-15	0.7
1230753	69	TBM2005080703	2005-08-05	0.9
1822064	69	TBM2005080703	2005-08-05	0.8
1125994	69	TBM2006070801	2006-07-03	0.7
1839747	69	TBM2006070801	2006-07-03	0.9
1438330	69	TBM2006070811	2006-07-03	0.9
2333663	69	TBM2006080405	2006-08-01	0.8
1154781	69	TBM2006090113	2006-09-26	0.9
1459010	69	TBM2006100601	2006-10-03	0.8
1469608	69	TBM2008040406	2008-04-14	0.9
1688228	69	TBM2008060405	2008-06-02	0.9
1783007	69	TBM2008060407	2008-06-02	0.9
1649155	69	TBM2008061204	2008-06-10	0.9
1921822	69	TBM2008061204	2008-06-10	0.9
1229844	69	TBM2008070601	2008-07-02	0.8
1749788	69	TBM2008080306	2008-08-13	0.7
1539587	69	TBM2009051009	2009-05-07	0.9
1380859	69	TBM2009080404	2009-08-12	0.9
2536498	69	TBM2009081003	2009-08-19	0.9
1160407	69	TBM2009090905	2009-09-23	0.6
1604820	69	TBM2010060905	2010-06-03	0.9
1283164	69	TBM2010100104	2010-10-04	0.9
1792939	69	TBM2010100503	2010-10-05	0.9
1018619	69	TBM2011051306	2011-05-17	0.8
1474301	69	TBM2011051306	2011-05-17	0.9
1523128	69	TBM2011051306	2011-05-17	0.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1537392	69	TBM2011051306	2011-05-17	0.9
1558645	69	TBM2011051306	2011-05-17	0.7
1538109	69	TBM2012050901	2012-05-10	0.9
1720863	69	TBM2012071103	2012-07-17	0.9
1820974	69	TBM2012071103	2012-07-17	0.9
1750619	69	TBM2012080802	2012-08-15	0.9
1633206	69	TBM2012091101	2012-09-13	0.9
3000731	69	TBM2012091403	2012-09-19	0.8
3081289	69	TBM2012091403	2012-09-19	0.7
1835118	69	TBM2013090606	2013-09-13	0.9
1847770	69	TBM2013100604	2013-10-07	0.7
1524523	69	TBM2013100611	2013-10-07	0.9
1225422	69	TBM2014070408	2014-07-07	0.8
1240261	69	TBM2015081305	2015-08-20	0.9
1179955	69	TBM2016050202	2016-05-11	0.6
1179956	69	TBM2016050202	2016-05-11	0.8
1696028	69	TBM2016050202	2016-05-11	0.7
1832522	69	TBM2016110209	2016-11-14	0.8
1941469	69	TBM2017070402	2017-07-14	0.8
2648991	69	TBM2017070402	2017-07-14	0.9
2254978	69	TBM2019060312	2019-06-05	0.8
2985793	69	TBM2019071205	2019-07-11	0.8
2735157	69	TBM2019080203	2019-08-02	0.8
2167814	69	TBM2019101503	2019-10-11	0.9
2147902	69	TBM2019110309	2019-11-06	0.9
2151715	69	TBM2020071111	2020-07-06	0.9
2962228	69	TBM2020071202	2020-07-20	0.9
2220526	69	TBM2020090206	2020-09-15	0.8
2010753	69	TBM2022091103	2022-09-08	0.9
2175540	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 Presence/Absence

There are no *Low* Quantile Flagged Values for Count

## High Quantile

### Standard Length

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

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
58472	69	APM1999040801	1999-04-08	69.8
131997	69	APM2001030202	2001-03-02	69.0
94505	69	APM2004070406	2004-07-07	69.0
233728	69	APM2012070701	2012-07-17	79.0
258007	69	APM2012070701	2012-07-17	77.0
424841	69	APM2012070701	2012-07-17	76.5
523656	69	APM2012070701	2012-07-17	74.5
233739	69	APM2012070702	2012-07-17	80.5
419464	69	APM2012070702	2012-07-17	84.0
310109	69	APM2012110504	2012-11-06	83.1
322340	69	APM2013060603	2013-06-07	78.0
883873	69	APM2013070205	2013-07-02	75.2
352678	69	APM2013081104	2013-08-15	80.2
414792	69	APM2013090906	2013-09-17	75.0
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1166934	69	CKM1997061204	1997-06-12	87.0
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810709	69	CKM1998070904	1998-07-09	87.5
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1065312	69	CKM2000061503	2000-06-15	84.5
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1082988	69	CKM2000081703	2000-08-17	77.0
1243629	69	CKM2000081703	2000-08-17	80.0
1338077	69	CKM2000081703	2000-08-17	82.5
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643763	69	CKM2000092503	2000-09-25	84.5
1019094	69	CKM2000092503	2000-09-25	80.0
1293780	69	CKM2000092503	2000-09-25	79.0
1298098	69	CKM2000092503	2000-09-25	78.0
1298099	69	CKM2000092503	2000-09-25	88.0
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881687	69	CKM2003100806	2003-10-13	83.0
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999394	69	CKM2004020802	2004-02-17	85.7
1146785	69	CKM2004020802	2004-02-17	85.2
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950879	69	CKM2004040706	2004-04-19	71.0
777065	69	CKM2004050305	2004-05-06	81.0
1374645	69	CKM2004050807	2004-05-18	78.0
1137500	69	CKM2004060703	2004-06-16	80.0
1497789	69	CKM2004060703	2004-06-16	79.0
2879951	69	CKM2004060703	2004-06-16	82.0
907115	69	CKM2004060803	2004-06-18	79.0

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767988	69	CKM2004080401	2004-08-11	90.5
820551	69	CKM2004080401	2004-08-11	86.3
992617	69	CKM2004080401	2004-08-11	84.0
1115963	69	CKM2004080401	2004-08-11	74.5
1169202	69	CKM2004080401	2004-08-11	82.5
1251684	69	CKM2004080401	2004-08-11	82.0
1253862	69	CKM2004080401	2004-08-11	79.3
2874881	69	CKM2004080902	2004-08-25	85.5
1162775	69	CKM2004090204	2004-09-09	68.1
473480	69	CKM2004090303	2004-09-10	84.5
965070	69	CKM2004090303	2004-09-10	84.0
1384874	69	CKM2004090303	2004-09-10	83.5
771965	69	CKM2004100105	2004-10-01	78.2
1173331	69	CKM2004110402	2004-11-03	78.0
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971460	69	CKM2004110603	2004-11-05	77.2
1108847	69	CKM2004110603	2004-11-05	85.2
1189902	69	CKM2004120410	2004-12-06	85.0
2962306	69	CKM2004120410	2004-12-06	79.0
957140	69	CKM2004120507	2004-12-07	81.0
942991	69	CKM2005010106	2005-01-04	82.2
1019553	69	CKM2005010106	2005-01-04	78.5
2982172	69	CKM2005040303	2005-04-05	87.0
922202	69	CKM2005050107	2005-05-02	83.0
1159090	69	CKM2005050107	2005-05-02	86.5
1454811	69	CKM2005050107	2005-05-02	82.0
2969507	69	CKM2005050107	2005-05-02	84.0
1011956	69	CKM2005060306	2005-06-07	79.0
940307	69	CKM2005060601	2005-06-13	84.0
958261	69	CKM2005060601	2005-06-13	83.0
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1162753	69	CKM2005060601	2005-06-13	76.0
2982543	69	CKM2005060601	2005-06-13	78.0
1026664	69	CKM2005070103	2005-07-05	86.0
1224308	69	CKM2005070207	2005-07-06	79.5
774878	69	CKM2005070601	2005-07-14	77.6
651093	69	CKM2005080701	2005-08-17	82.5
1038912	69	CKM2005080701	2005-08-17	78.5
1047389	69	CKM2005080701	2005-08-17	83.0
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1250245	69	CKM2005080701	2005-08-17	81.0
946335	69	CKM2005080810	2005-08-19	82.0
970994	69	CKM2005080811	2005-08-19	73.0
981712	69	CKM2005080811	2005-08-19	84.5
1006552	69	CKM2005080811	2005-08-19	72.3
1397556	69	CKM2005080811	2005-08-19	83.5
1142691	69	CKM2005090702	2005-09-14	86.5
971002	69	CKM2005090703	2005-09-14	79.5

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1233964	69	CKM2005090703	2005-09-14	75.5
2780457	69	CKM2005090703	2005-09-14	68.5
955565	69	CKM2005100206	2005-10-04	89.0
1045181	69	CKM2005100206	2005-10-04	78.0
1052547	69	CKM2005100206	2005-10-04	68.0
1074372	69	CKM2005100206	2005-10-04	73.3
1083978	69	CKM2005100206	2005-10-04	88.2
1284259	69	CKM2005100206	2005-10-04	83.0
1341377	69	CKM2005100206	2005-10-04	84.5
2719458	69	CKM2005100206	2005-10-04	79.5
2752324	69	CKM2005100206	2005-10-04	81.2
633946	69	CKM2005100701	2005-10-13	79.4
709416	69	CKM2005100703	2005-10-13	84.0
1431886	69	CKM2005100703	2005-10-13	86.0
971088	69	CKM2005110105	2005-11-01	82.5
837208	69	CKM2005110702	2005-11-08	89.2
1117315	69	CKM2005110702	2005-11-08	88.7
878115	69	CKM2005120504	2005-12-12	72.5
852314	69	CKM2005120707	2005-12-14	83.3
1092234	69	CKM2005120707	2005-12-14	75.5
1123598	69	CKM2006020507	2006-02-10	85.5
486202	69	CKM2006040504	2006-04-12	90.3
699174	69	CKM2006040504	2006-04-12	84.4
699175	69	CKM2006040504	2006-04-12	87.0
921797	69	CKM2006040504	2006-04-12	76.0
1059063	69	CKM2006040504	2006-04-12	85.3
1185478	69	CKM2006040504	2006-04-12	86.7
2781085	69	CKM2006040504	2006-04-12	91.1
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668506	69	CKM2006050806	2006-05-24	84.2
921999	69	CKM2006060704	2006-06-20	88.3
669072	69	CKM2006070806	2006-07-11	87.4
934112	69	CKM2006070806	2006-07-11	86.5
669101	69	CKM2006071003	2006-07-18	68.5
723696	69	CKM2006071003	2006-07-18	79.5
882605	69	CKM2006071003	2006-07-18	80.4
934216	69	CKM2006071003	2006-07-18	69.5
954693	69	CKM2006071003	2006-07-18	88.3
1045150	69	CKM2006071003	2006-07-18	82.0
1050256	69	CKM2006071003	2006-07-18	87.2
1443976	69	CKM2006071003	2006-07-18	69.3
618991	69	CKM2006080401	2006-08-04	79.1
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861073	69	CKM2006080401	2006-08-04	80.1
861074	69	CKM2006080401	2006-08-04	81.7
867931	69	CKM2006080401	2006-08-04	81.2
867932	69	CKM2006080401	2006-08-04	88.5



RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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1544797	69	CKM2006090703	2006-09-20	82.5
1055996	69	CKM2006100302	2006-10-04	81.8
1162113	69	CKM2006100302	2006-10-04	84.4
2737991	69	CKM2006100302	2006-10-04	83.0
1216715	69	CKM2006100807	2006-10-18	83.6
1314011	69	CKM2006110504	2006-11-08	70.3
1390707	69	CKM2007010104	2007-01-03	89.2
2916324	69	CKM2007030809	2007-03-20	69.8
1233219	69	CKM2007060604	2007-06-08	69.4
945865	69	CKM2007060804	2007-06-14	81.0
348231	69	CKM2007080204	2007-08-03	83.1
348232	69	CKM2007080204	2007-08-03	84.5
477070	69	CKM2007080204	2007-08-03	78.5
529865	69	CKM2007080204	2007-08-03	79.5
529866	69	CKM2007080204	2007-08-03	83.0
532781	69	CKM2007080204	2007-08-03	85.0
746357	69	CKM2007080204	2007-08-03	84.6
746358	69	CKM2007080204	2007-08-03	86.0
1024838	69	CKM2007080204	2007-08-03	81.5
1083338	69	CKM2007080204	2007-08-03	76.5
1083339	69	CKM2007080204	2007-08-03	82.5
1125854	69	CKM2007080204	2007-08-03	84.2
1145668	69	CKM2007080204	2007-08-03	80.0
1145669	69	CKM2007080204	2007-08-03	82.1
1184554	69	CKM2007080204	2007-08-03	82.2
1203516	69	CKM2007080204	2007-08-03	80.5
1225490	69	CKM2007080204	2007-08-03	87.3
1453442	69	CKM2007080204	2007-08-03	79.0
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1469141	69	CKM2007080204	2007-08-03	81.0
1469142	69	CKM2007080204	2007-08-03	85.5
1471290	69	CKM2007080204	2007-08-03	78.0
1479022	69	CKM2007080204	2007-08-03	79.4
1479023	69	CKM2007080204	2007-08-03	83.5
1479024	69	CKM2007080204	2007-08-03	87.0
1534399	69	CKM2007080204	2007-08-03	88.0
2672457	69	CKM2007080204	2007-08-03	94.7
2902546	69	CKM2007080204	2007-08-03	84.0
2974652	69	CKM2007080604	2007-08-10	69.7
710890	69	CKM2007090304	2007-09-06	82.8
710891	69	CKM2007090304	2007-09-06	83.0
969771	69	CKM2007090304	2007-09-06	85.5
990954	69	CKM2007090304	2007-09-06	72.2
1026393	69	CKM2007090406	2007-09-10	74.0
1182421	69	CKM2007090406	2007-09-10	72.0
2908650	69	CKM2007090406	2007-09-10	74.5
705975	69	CKM2007090804	2007-09-24	79.0
1026410	69	CKM2007090905	2007-09-25	87.5
613013	69	CKM2007100306	2007-10-04	93.5
668925	69	CKM2007100306	2007-10-04	80.0
668926	69	CKM2007100306	2007-10-04	81.5

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673949	69	CKM2007100306	2007-10-04	83.0
703411	69	CKM2007100306	2007-10-04	80.1
703412	69	CKM2007100306	2007-10-04	83.3
824394	69	CKM2007100306	2007-10-04	87.5
966553	69	CKM2007100306	2007-10-04	88.8
1026467	69	CKM2007100306	2007-10-04	91.5
1151529	69	CKM2007100306	2007-10-04	88.0
1201952	69	CKM2007100306	2007-10-04	82.0
1209421	69	CKM2007100306	2007-10-04	79.2
1268295	69	CKM2007100306	2007-10-04	85.0
1336073	69	CKM2007100306	2007-10-04	84.4
1477861	69	CKM2007100306	2007-10-04	90.2
1510686	69	CKM2007100306	2007-10-04	93.9
1513332	69	CKM2007100306	2007-10-04	87.0
1562511	69	CKM2007100306	2007-10-04	81.0
1562512	69	CKM2007100306	2007-10-04	89.0
2909140	69	CKM2007100306	2007-10-04	90.0
2918029	69	CKM2007100306	2007-10-04	93.2
2975328	69	CKM2007100306	2007-10-04	86.2
2975329	69	CKM2007100306	2007-10-04	91.0
826226	69	CKM2007100906	2007-10-17	73.0
1027180	69	CKM2007110203	2007-11-05	78.8
1314487	69	CKM2007110203	2007-11-05	80.1
2672907	69	CKM2007110203	2007-11-05	82.5
1027929	69	CKM2007110207	2007-11-05	79.0
1206148	69	CKM2007110706	2007-11-14	68.0
1382812	69	CKM2008010405	2008-01-09	90.0
703606	69	CKM2008040405	2008-04-03	82.4
1191361	69	CKM2008040503	2008-04-07	80.5
1348438	69	CKM2008050103	2008-05-02	87.8
1492578	69	CKM2008050103	2008-05-02	86.5
1083550	69	CKM2008050303	2008-05-05	75.8
660482	69	CKM2008050510	2008-05-06	85.5
1353110	69	CKM2008050510	2008-05-06	79.5
660487	69	CKM2008050607	2008-05-07	84.0
1029176	69	CKM2008050607	2008-05-07	88.8
1078436	69	CKM2008050607	2008-05-07	83.5
1087950	69	CKM2008050607	2008-05-07	79.8
1207908	69	CKM2008050607	2008-05-07	82.5
1313876	69	CKM2008050607	2008-05-07	87.5
1461654	69	CKM2008050607	2008-05-07	79.1
1520476	69	CKM2008050607	2008-05-07	82.2
2926683	69	CKM2008050607	2008-05-07	91.0
1355391	69	CKM2008060303	2008-06-03	83.5
1355392	69	CKM2008060310	2008-06-03	78.0
730991	69	CKM2008060503	2008-06-05	76.4
618275	69	CKM2008060507	2008-06-04	79.0
680845	69	CKM2008060507	2008-06-04	88.0
969174	69	CKM2008060507	2008-06-04	74.0
1028542	69	CKM2008060507	2008-06-04	85.2
1176085	69	CKM2008060507	2008-06-04	80.0

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1300739	69	CKM2008060507	2008-06-04	82.5
705294	69	CKM2008060508	2008-06-05	84.0
730992	69	CKM2008060508	2008-06-05	83.2
1043930	69	CKM2008070209	2008-07-02	86.0
1382818	69	CKM2008070209	2008-07-02	89.5
904902	69	CKM2008070303	2008-07-03	83.7
1043933	69	CKM2008070303	2008-07-03	89.5
1255985	69	CKM2008070303	2008-07-03	90.0
3001931	69	CKM2008070303	2008-07-03	82.5
1167243	69	CKM2008070304	2008-07-03	73.5
1169997	69	CKM2008070304	2008-07-03	77.0
1351892	69	CKM2008080408	2008-08-05	78.0
492538	69	CKM2008090102	2008-09-02	79.5
972290	69	CKM2008100207	2008-10-03	87.6
1049575	69	CKM2008100505	2008-10-09	70.0
1352476	69	CKM2008100505	2008-10-09	73.3
1367788	69	CKM2008100505	2008-10-09	80.5
1475629	69	CKM2008100505	2008-10-09	88.0
1490751	69	CKM2008100505	2008-10-09	77.5
1537877	69	CKM2008100505	2008-10-09	82.9
1644685	69	CKM2008100505	2008-10-09	77.0
1049581	69	CKM2008100507	2008-10-09	78.4
778665	69	CKM2008120101	2008-12-03	87.0
1003560	69	CKM2008120504	2008-12-09	83.4
1356792	69	CKM2009020409	2009-02-10	86.0
2941771	69	CKM2009040105	2009-04-03	86.0
1593644	69	CKM2009040106	2009-04-03	77.0
494801	69	CKM2009050201	2009-05-04	71.5
735065	69	CKM2009050201	2009-05-04	72.5
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1635744	69	CKM2009050201	2009-05-04	76.2
1650635	69	CKM2009050201	2009-05-04	81.5
3000751	69	CKM2009050201	2009-05-04	78.6
954909	69	CKM2009050409	2009-05-11	77.5
1148809	69	CKM2009050409	2009-05-11	71.2
1102712	69	CKM2009060405	2009-06-08	83.0
1108424	69	CKM2009060405	2009-06-08	84.8
1658210	69	CKM2009060405	2009-06-08	82.5
805522	69	CKM2009060706	2009-06-15	78.7
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2994182	69	CKM2009060707	2009-06-15	82.9
955197	69	CKM2009070106	2009-07-02	83.7
1009370	69	CKM2009070106	2009-07-02	76.0
1024022	69	CKM2009070106	2009-07-02	80.6
1178044	69	CKM2009070608	2009-07-15	85.3
1354073	69	CKM2009070608	2009-07-15	81.3
2841042	69	CKM2009070608	2009-07-15	80.4
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775757	69	CKM2009080110	2009-08-03	80.9
786515	69	CKM2009080110	2009-08-03	80.5

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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1160773	69	CKM2009080110	2009-08-03	82.0
1177886	69	CKM2009080202	2009-08-04	86.5
773880	69	CKM2009080301	2009-08-05	77.5
956073	69	CKM2009080311	2009-08-05	76.8
1177894	69	CKM2009080311	2009-08-05	73.0
2851311	69	CKM2009080311	2009-08-05	75.7
780189	69	CKM2009090103	2009-09-01	73.2
810029	69	CKM2009090103	2009-09-01	72.4
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1164207	69	CKM2009090103	2009-09-01	80.3
1230949	69	CKM2009090103	2009-09-01	71.0
1358699	69	CKM2009090103	2009-09-01	78.0
1637224	69	CKM2009090103	2009-09-01	84.2
1659060	69	CKM2009090103	2009-09-01	71.5
2619957	69	CKM2009090103	2009-09-01	73.0
2829226	69	CKM2009090103	2009-09-01	76.5
847200	69	CKM2009090205	2009-09-02	80.3
856021	69	CKM2009090608	2009-09-16	75.4
1207615	69	CKM2009100704	2009-10-15	82.0
2851988	69	CKM2009120104	2009-12-01	75.8
669593	69	CKM2010040402	2010-04-06	86.0
1005272	69	CKM2010040402	2010-04-06	81.0
1532191	69	CKM2010040402	2010-04-06	79.8
1023061	69	CKM2010050409	2010-05-11	80.0
1327809	69	CKM2010050409	2010-05-11	89.5
1338911	69	CKM2010050409	2010-05-11	88.0
957183	69	CKM2010050509	2010-05-12	86.0
921698	69	CKM2010070107	2010-07-02	77.2
2836991	69	CKM2010070107	2010-07-02	73.5
1167110	69	CKM2010080804	2010-08-25	78.0
1598228	69	CKM2010080804	2010-08-25	81.5
1708127	69	CKM2010080804	2010-08-25	84.3
583148	69	CKM2010080808	2010-08-25	80.6
911011	69	CKM2010100204	2010-10-04	88.6
1719855	69	CKM2010100204	2010-10-04	78.5
1721374	69	CKM2010100504	2010-10-14	81.5
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619899	69	CKM2011040407	2011-04-11	76.5
827202	69	CKM2011040407	2011-04-11	74.5
829635	69	CKM2011040407	2011-04-11	78.0
907426	69	CKM2011040407	2011-04-11	74.3
907427	69	CKM2011040407	2011-04-11	77.0
914730	69	CKM2011040407	2011-04-11	76.0
915433	69	CKM2011040407	2011-04-11	79.0
932776	69	CKM2011040407	2011-04-11	69.0
1119345	69	CKM2011040407	2011-04-11	72.2
1158544	69	CKM2011040407	2011-04-11	73.5
1285876	69	CKM2011040407	2011-04-11	72.0
1285877	69	CKM2011040407	2011-04-11	75.5
1418638	69	CKM2011040407	2011-04-11	78.5

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
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1425952	69	CKM2011040407	2011-04-11	84.5
1480987	69	CKM2011040407	2011-04-11	75.0
1700979	69	CKM2011040407	2011-04-11	83.0
1261308	69	CKM2011050108	2011-05-02	78.1
955100	69	CKM2011050502	2011-05-09	81.1
639964	69	CKM2011060204	2011-06-02	71.5
1304833	69	CKM2011060204	2011-06-02	68.8
1362908	69	CKM2011060204	2011-06-02	77.9
1424516	69	CKM2011060204	2011-06-02	83.3
1441860	69	CKM2011060204	2011-06-02	81.2
1602472	69	CKM2011060204	2011-06-02	79.5
703142	69	CKM2011080302	2011-08-10	69.9
1258542	69	CKM2011080302	2011-08-10	73.8
935732	69	CKM2011080307	2011-08-10	78.0
1172431	69	CKM2011090202	2011-09-07	88.5
1465229	69	CKM2011090202	2011-09-07	79.6
1468681	69	CKM2011090202	2011-09-07	82.1
621160	69	CKM2011100305	2011-10-06	78.2
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1283551	69	CKM2014060602	2014-06-05	72.5
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1388383	69	CKM2017040202	2017-04-05	81.0

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1948886	69	CKM2018050901	2018-05-10	70.6
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1976853	69	CKM2020050601	2020-05-22	74.2
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2048743	69	CKM2020060601	2020-06-18	74.0
2203588	69	CKM2020060603	2020-06-18	75.9
2325085	69	CKM2020060603	2020-06-18	69.2
1327305	69	CKM2020060701	2020-06-25	71.3
1739506	69	CKM2020060701	2020-06-25	76.1
2056995	69	CKM2020060701	2020-06-25	72.4
2137546	69	CKM2020060701	2020-06-25	74.8

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2195540	69	CKM2020060701	2020-06-25	75.1
2240485	69	CKM2020060701	2020-06-25	71.9
2262837	69	CKM2020060701	2020-06-25	70.4
2317695	69	CKM2020060701	2020-06-25	79.0
2322985	69	CKM2020060701	2020-06-25	75.4
1977276	69	CKM2020070304	2020-07-02	77.8
2138094	69	CKM2020070304	2020-07-02	74.4
2232682	69	CKM2020070304	2020-07-02	73.3
2052388	69	CKM2020080307	2020-08-06	70.6
2052510	69	CKM2020080307	2020-08-06	75.4
2057199	69	CKM2020080307	2020-08-06	68.8
2141334	69	CKM2020080307	2020-08-06	72.6
2141528	69	CKM2020080307	2020-08-06	73.4
2203995	69	CKM2020080307	2020-08-06	69.5
2203996	69	CKM2020080307	2020-08-06	71.3
2323380	69	CKM2020080307	2020-08-06	68.7
2329656	69	CKM2020080307	2020-08-06	71.2
2329689	69	CKM2020080307	2020-08-06	71.5
2368624	69	CKM2020080307	2020-08-06	75.8
2376210	69	CKM2020080307	2020-08-06	70.1
2379312	69	CKM2020080307	2020-08-06	74.6
2405501	69	CKM2020080307	2020-08-06	76.0
1654165	69	CKM2020080403	2020-08-07	80.0
1683429	69	CKM2020080403	2020-08-07	72.8
1996669	69	CKM2020080403	2020-08-07	69.5
2061719	69	CKM2020080403	2020-08-07	75.4
2204051	69	CKM2020080403	2020-08-07	76.5
2262910	69	CKM2020080403	2020-08-07	76.3
2323423	69	CKM2020080403	2020-08-07	77.9
2370433	69	CKM2020080403	2020-08-07	78.7
2376276	69	CKM2020080403	2020-08-07	78.5
1932122	69	CKM2020080404	2020-08-07	75.8
2070270	69	CKM2020080404	2020-08-07	75.0
2150270	69	CKM2020080404	2020-08-07	72.0
2368686	69	CKM2020080404	2020-08-07	71.0
2405546	69	CKM2020080404	2020-08-07	74.0
2068099	69	CKM2020080803	2020-08-19	71.2
1163432	69	CKM2020090102	2020-09-01	72.2
2336106	69	CKM2020090102	2020-09-01	68.6
2040113	69	CKM2020090401	2020-09-18	72.5
2040765	69	CKM2020090401	2020-09-18	76.8
2062527	69	CKM2020090401	2020-09-18	70.2
2134850	69	CKM2020090401	2020-09-18	75.2
2134851	69	CKM2020090401	2020-09-18	73.5
2141553	69	CKM2020090401	2020-09-18	71.5
2305474	69	CKM2020090401	2020-09-18	69.3
2323611	69	CKM2020090401	2020-09-18	68.4
2376405	69	CKM2020090401	2020-09-18	71.8
2124209	69	CKM2020090603	2020-09-25	80.5
2138196	69	CKM2020090603	2020-09-25	75.0
2090735	69	CKM2020100704	2020-10-15	75.0
2124236	69	CKM2020100705	2020-10-15	75.5

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2078988	69	CKM2020110308	2020-11-05	71.5
2115038	69	CKM2021030405	2021-03-10	69.5
2213402	69	CKM2021030405	2021-03-10	68.9
2370084	69	CKM2021040205	2021-04-06	78.0
2026963	69	CKM2021040407	2021-04-12	71.8
2028156	69	CKM2021040505	2021-04-13	74.8
2031496	69	CKM2021040505	2021-04-13	70.9
2208601	69	CKM2021040505	2021-04-13	78.2
2358776	69	CKM2021040505	2021-04-13	71.8
2385956	69	CKM2021040505	2021-04-13	69.2
2952685	69	CKM2021040505	2021-04-13	77.3
3022405	69	CKM2021040505	2021-04-13	76.0
2205266	69	CKM2021050205	2021-05-05	68.7
2499492	69	CKM2021050205	2021-05-05	71.4
2692335	69	CKM2021050205	2021-05-05	72.8
2027111	69	CKM2021050305	2021-05-06	69.4
2205309	69	CKM2021050305	2021-05-06	74.0
2237388	69	CKM2021050305	2021-05-06	71.8
2379373	69	CKM2021050305	2021-05-06	69.3
2380781	69	CKM2021050305	2021-05-06	73.8
2417475	69	CKM2021050305	2021-05-06	72.8
2914728	69	CKM2021050305	2021-05-06	69.7
3015620	69	CKM2021050305	2021-05-06	72.5
3041767	69	CKM2021050305	2021-05-06	72.0
2249137	69	CKM2021050502	2021-05-11	74.6
2118711	69	CKM2021050603	2021-05-12	77.2
2645330	69	CKM2021050603	2021-05-12	75.7
2942286	69	CKM2021050603	2021-05-12	74.5
2205315	69	CKM2021050703	2021-05-17	72.8
2029178	69	CKM2021050704	2021-05-17	69.5
2499558	69	CKM2021050704	2021-05-17	74.0
2655616	69	CKM2021060303	2021-06-04	72.5
2680173	69	CKM2021060303	2021-06-04	71.5
2372289	69	CKM2021060304	2021-06-04	71.4
2400816	69	CKM2021060304	2021-06-04	69.4
2407193	69	CKM2021060304	2021-06-04	69.0
2409785	69	CKM2021060304	2021-06-04	71.2
2695592	69	CKM2021060304	2021-06-04	70.4
2695593	69	CKM2021060304	2021-06-04	73.6
2940842	69	CKM2021060304	2021-06-04	71.0
3036482	69	CKM2021060304	2021-06-04	67.9
2693769	69	CKM2021060305	2021-06-04	73.6
2924161	69	CKM2021060305	2021-06-04	71.9
3069600	69	CKM2021060305	2021-06-04	72.4
2031957	69	CKM2021060407	2021-06-09	72.0
2737521	69	CKM2021060407	2021-06-09	72.8
2901218	69	CKM2021060407	2021-06-09	72.5
2914784	69	CKM2021060407	2021-06-09	74.1
2940921	69	CKM2021060407	2021-06-09	70.5
2374222	69	CKM2021060504	2021-06-10	73.8
2693943	69	CKM2021060504	2021-06-10	71.3
2949045	69	CKM2021060504	2021-06-10	69.2

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2736250	69	CKM2021070201	2021-07-02	68.1
2924428	69	CKM2021070201	2021-07-02	76.0
3068941	69	CKM2021070201	2021-07-02	71.3
2028469	69	CKM2021070203	2021-07-02	75.2
2262787	69	CKM2021070203	2021-07-02	72.3
2407215	69	CKM2021070203	2021-07-02	71.2
3017237	69	CKM2021070203	2021-07-02	79.2
3062434	69	CKM2021070203	2021-07-02	70.2
2940928	69	CKM2021070304	2021-07-12	72.2
2244642	69	CKM2021070406	2021-07-13	70.0
2955839	69	CKM2021070406	2021-07-13	75.6
2431793	69	CKM2021070501	2021-07-01	69.5
2407284	69	CKM2021080208	2021-08-09	76.5
2163632	69	CKM2021080502	2021-08-19	76.0
2377652	69	CKM2021080602	2021-08-23	81.0
2736617	69	CKM2021090102	2021-09-01	75.3
2431228	69	CKM2021090104	2021-09-01	78.0
2494888	69	CKM2021090104	2021-09-01	71.0
2535446	69	CKM2021090104	2021-09-01	74.0
2535447	69	CKM2021090104	2021-09-01	74.5
2931067	69	CKM2021090104	2021-09-01	76.0
2939127	69	CKM2021090104	2021-09-01	69.5
2941669	69	CKM2021090104	2021-09-01	73.0
2431256	69	CKM2021090303	2021-09-07	76.0
2962512	69	CKM2021090303	2021-09-07	71.0
2028858	69	CKM2021090305	2021-09-07	71.5
2734435	69	CKM2021090305	2021-09-07	76.2
2714969	69	CKM2021100106	2021-10-01	73.7
2272102	69	CKM2021100304	2021-10-05	69.8
2952850	69	CKM2021100808	2021-10-03	75.5
2260306	69	CKM2022020508	2022-02-15	84.9
2441858	69	CKM2022030408	2022-03-04	73.7
2729738	69	CKM2022040105	2022-04-01	80.2
2519499	69	CKM2022050204	2022-05-03	73.2
2179143	69	CKM2022050401	2022-05-05	69.5
2750397	69	CKM2022050401	2022-05-05	80.3
2111910	69	CKM2022050407	2022-05-05	69.5
2341595	69	CKM2022050407	2022-05-05	71.0
2468890	69	CKM2022050407	2022-05-05	78.0
2524240	69	CKM2022050407	2022-05-05	72.8
2559472	69	CKM2022050407	2022-05-05	70.5
2559473	69	CKM2022050407	2022-05-05	73.0
2753255	69	CKM2022050407	2022-05-05	72.0
3031107	69	CKM2022050407	2022-05-05	71.7
2909685	69	CKM2022060109	2022-06-01	71.1
2468565	69	CKM2022060201	2022-06-01	73.2
2486094	69	CKM2022060201	2022-06-01	72.7
2980838	69	CKM2022060201	2022-06-01	72.6
3047988	69	CKM2022060201	2022-06-01	69.6
2171791	69	CKM2022060205	2022-06-01	74.4
2200254	69	CKM2022060205	2022-06-01	75.2
2341823	69	CKM2022060205	2022-06-01	77.0

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2468994	69	CKM2022060205	2022-06-01	75.6
2575104	69	CKM2022060205	2022-06-01	70.2
2594700	69	CKM2022060205	2022-06-01	74.1
2767291	69	CKM2022060205	2022-06-01	76.5
2909711	69	CKM2022060205	2022-06-01	75.0
2987937	69	CKM2022060205	2022-06-01	71.0
2120427	69	CKM2022070201	2022-07-05	72.7
3097448	69	CKM2022070201	2022-07-05	69.5
2859608	69	CKM2022070602	2022-07-08	76.3
2103808	69	CKM2022080105	2022-08-08	73.4
2121398	69	CKM2022080105	2022-08-08	78.0
2125123	69	CKM2022080105	2022-08-08	74.5
2469580	69	CKM2022080105	2022-08-08	72.0
2487680	69	CKM2022080105	2022-08-08	69.9
2576284	69	CKM2022080105	2022-08-08	69.0
2594495	69	CKM2022080105	2022-08-08	75.5
2781292	69	CKM2022080105	2022-08-08	72.3
2782573	69	CKM2022080105	2022-08-08	72.6
2782574	69	CKM2022080105	2022-08-08	75.0
2865028	69	CKM2022080105	2022-08-08	77.0
2972015	69	CKM2022080105	2022-08-08	73.0
2972016	69	CKM2022080105	2022-08-08	74.6
2983856	69	CKM2022080105	2022-08-08	72.5
2988029	69	CKM2022080105	2022-08-08	69.5
2988030	69	CKM2022080105	2022-08-08	70.6
2994369	69	CKM2022080105	2022-08-08	70.5
2997618	69	CKM2022080105	2022-08-08	76.0
3040157	69	CKM2022080105	2022-08-08	71.5
3048075	69	CKM2022080105	2022-08-08	72.2
3025759	69	CKM2022080507	2022-08-15	77.3
2125202	69	CKM2022090704	2022-09-22	79.9
2528434	69	CKM2022090704	2022-09-22	79.4
2890534	69	CKM2022090704	2022-09-22	78.0
3004982	69	CKM2022090704	2022-09-22	78.1
3018851	69	CKM2022090704	2022-09-22	73.2
2663020	69	CKM2022100107	2022-10-03	68.5
2494849	69	CKM2022100303	2022-10-05	77.6
2495557	69	CKM2022100303	2022-10-05	68.2
2495582	69	CKM2022100504	2022-10-10	78.0
2972338	69	CKM2022100504	2022-10-10	77.5
1512958	69	IRM1999011401	1999-01-14	92.1
1507868	69	IRM1999102701	1999-10-27	82.1
1600425	69	IRM1999102701	1999-10-27	83.3
2095709	69	IRM1999102703	1999-10-27	71.1
832442	69	IRM2000100901	2000-10-09	76.0
1220263	69	IRM2000100901	2000-10-09	103.5
2134594	69	IRM2000100901	2000-10-09	88.5
785245	69	IRM2002050504	2002-05-08	71.4
1267854	69	IRM2002080901	2002-08-22	68.2
895964	69	IRM2003071201	2003-07-21	78.3
934915	69	IRM2004020604	2004-02-10	96.5
1131361	69	IRM2004020604	2004-02-10	91.1

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
1158482	69	IRM2004020604	2004-02-10	92.4
1533839	69	IRM2010090102	2010-09-01	94.7
1373170	69	IRM2014021007	2014-02-17	68.6
898854	69	IRM2015101304	2015-10-21	68.4
1272550	69	IRM2016010905	2016-01-14	68.7
2446396	69	IRM2018090601	2018-09-11	81.5
2133866	69	IRM2019010703	2019-01-18	70.8
2538062	69	IRM2019010703	2019-01-18	69.8
2951024	69	IRM2019050704	2019-05-13	74.3
2197144	69	IRM2020030102	2020-03-02	71.8
2501827	69	IRM2022010603	2022-01-12	70.6
2646110	69	IRM2022010603	2022-01-12	72.8
2346622	69	IRM2022070303	2022-07-07	69.5
1520917	69	JXM2001051201	2001-05-30	81.8
1514634	69	JXM2011040501	2011-04-04	70.4
1591039	69	TBM1997111215	1997-11-12	68.8
1492545	69	TBM1998082002	1998-08-20	71.5
1404719	69	TBM1999021509	1999-02-15	69.0
2228623	69	TBM1999072303	1999-07-23	68.6
1577787	69	TBM2002030907	2002-03-08	68.0
1117421	69	TBM2003031102	2003-03-13	69.1
1121943	69	TBM2003031102	2003-03-13	72.0
1182110	69	TBM2003031102	2003-03-13	69.2
1787954	69	TBM2003031102	2003-03-13	71.0
1852616	69	TBM2003031102	2003-03-13	69.0
2164637	69	TBM2003031102	2003-03-13	68.0
1486584	69	TBM2008021103	2008-02-26	71.5
1939016	69	TBM2008021107	2008-02-26	68.1
1185678	69	TBM2008091102	2008-09-08	72.1
1666621	69	TBM2014111002	2014-11-13	71.5
1146283	69	TBM2016050703	2016-05-02	70.2
1700087	69	TBM2016050703	2016-05-02	69.1
1714817	69	TBM2016050703	2016-05-02	69.6
1778963	69	TBM2016050703	2016-05-02	68.3
1557150	69	TBM2016070907	2016-07-20	67.9
1856952	69	TBM2016081401	2016-08-24	71.5
1992349	69	TBM2019070905	2019-07-11	70.3
2424643	69	TBM2022050402	2022-05-04	68.2
2336436	69	TBM2022060202	2022-06-06	76.1
2740540	69	TBM2022060203	2022-06-06	70.8
2377072	69	TBM2022110605	2022-11-07	76.4
1676487	69	TQM1997052003	1997-05-20	74.0
1829192	69	TQM1997052003	1997-05-20	68.0
1917492	69	TQM1997052003	1997-05-20	73.3
1967439	69	TQM1997081902	1997-08-19	84.0
2826361	69	TQM1997122304	1997-12-23	68.5
1858198	69	TQM1998032301	1998-03-23	68.5
2103243	69	TQM1998042011	1998-04-20	68.2
1265627	69	TQM1998051302	1998-05-13	74.5
2893852	69	TQM1998102002	1998-10-20	79.8
1384236	69	TQM1999051102	1999-05-11	86.5
2023285	69	TQM1999051102	1999-05-11	75.7



RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2904010	69	TQM1999051104	1999-05-11	78.0
1556937	69	TQM1999071502	1999-07-15	109.6
1762448	69	TQM1999101904	1999-10-19	70.5
2936433	69	TQM2000052304	2000-05-23	73.7
1232857	69	TQM2000101804	2000-10-18	75.1
1668894	69	TQM2001030104	2001-03-01	68.5
1765500	69	TQM2001030104	2001-03-01	73.4
1774652	69	TQM2001100303	2001-10-16	72.1
1938520	69	TQM2001120203	2001-12-13	68.8
3003942	69	TQM2002030205	2002-03-07	70.2
1798876	69	TQM2002050303	2002-05-14	78.0
1732552	69	TQM2002060206	2002-06-11	78.4
1450921	69	TQM2002070401	2002-07-30	77.5
1314644	69	TQM2003030204	2003-03-18	80.5
1603339	69	TQM2003090204	2003-09-10	72.8
3018545	69	TQM2003090204	2003-09-10	71.5
3019870	69	TQM2004040104	2004-04-06	76.9
1341921	69	TQM2004060402	2004-06-22	90.0
3104119	69	TQM2005010205	2005-01-11	73.5
1841808	69	TQM2005030305	2005-03-16	68.5
1739375	69	TQM2006110402	2006-11-28	73.0
1747008	69	TQM2006110402	2006-11-28	69.0
1837360	69	TQM2006110402	2006-11-28	73.5
1982712	69	TQM2006110402	2006-11-28	67.8
1999834	69	TQM2006110402	2006-11-28	74.0
2016153	69	TQM2007030402	2007-03-27	74.5
1790530	69	TQM2007050303	2007-05-14	87.8
2028018	69	TQM2008110204	2008-11-05	87.0
2223803	69	TQM2008110204	2008-11-05	86.0
2348379	69	TQM2008110204	2008-11-05	74.0
1213903	69	TQM2012050101	2012-05-03	109.0
1762666	69	TQM2015050101	2015-05-06	68.5
2457770	69	TQM2015050101	2015-05-06	70.2
2103308	69	TQM2016120403	2016-12-09	81.4
1967879	69	TQM2017040301	2017-04-11	69.8
2041892	69	TQM2018020603	2018-02-15	68.9
2148410	69	TQM2019040302	2019-04-05	68.3
2189877	69	TQM2020100403	2020-10-14	70.0
2193077	69	TQM2020100403	2020-10-14	70.4
2572236	69	TQM2021020703	2021-02-24	78.8
2531437	69	TQM2021040404	2021-04-14	74.4
2416051	69	TQM2021070302	2021-07-07	68.5
2165728	69	TQM2021070503	2021-07-12	73.5
2170821	69	TQM2021080501	2021-08-16	91.0
2557474	69	TQM2021080501	2021-08-16	92.5
2447524	69	TQM2021100104	2021-10-04	92.6
2654751	69	TQM2022020303	2022-02-08	69.9
2529218	69	TQM2022060303	2022-06-07	71.0
2800072	69	TQM2022100104	2022-10-06	93.5

Programs containing flagged data:

69 - Fisheries-Independent Monitoring (FIM) Program

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

**Count**

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

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2278459	69	TBM1997061607	1997-06-16	1115
3043577	69	TBM1997091508	1997-09-15	1270
2296914	69	TBM1999100402	1999-10-04	1289
2419608	69	TBM1999110404	1999-11-04	1491
2287002	69	TBM1999110406	1999-11-04	1520
2455424	69	TBM2001010705	2001-01-26	1180
2455436	69	TBM2001020713	2001-02-05	1671
2581083	69	TBM2001021001	2001-02-12	1232
2500756	69	TBM2001120203	2001-12-04	1120
2757235	69	TBM2002080502	2002-08-05	1647
2572721	69	TBM2002081204	2002-08-15	1536
2366546	69	TBM2002101604	2002-10-23	1132
2319640	69	TBM2003021002	2003-02-14	1382
2623508	69	TBM2003021611	2003-02-19	6128
2671981	69	TBM2003080201	2003-08-04	1501
2742893	69	TBM2004100204	2004-10-01	2585
2518357	69	TBM2005060803	2005-06-07	1115
2582138	69	TBM2006040307	2006-04-18	1076
2315621	69	TBM2006100502	2006-10-02	1224
2870467	69	TBM2006111002	2006-11-09	4597
2950085	69	TBM2006111005	2006-11-09	1072
2521869	69	TBM2007061006	2007-06-19	1367
2595806	69	TBM2007110605	2007-11-06	1843
2576363	69	TBM2007110904	2007-11-08	1572
2799426	69	TBM2008011202	2008-01-10	3882
2816863	69	TBM2008040201	2008-04-14	1085
2572110	69	TBM2008040406	2008-04-14	2532
2985704	69	TBM2008050606	2008-05-08	2236
2586501	69	TBM2008050608	2008-05-08	1370
2614460	69	TBM2008051505	2008-05-16	1367
3076826	69	TBM2008061105	2008-06-05	2432
2586670	69	TBM2008071206	2008-07-24	1520
2813243	69	TBM2008080102	2008-08-11	1127
2511300	69	TBM2008080802	2008-08-20	1621
2753573	69	TBM2008081305	2008-08-26	2051
2880319	69	TBM2008090505	2008-09-04	1125
2679327	69	TBM2008101105	2008-10-13	1096
2419743	69	TBM2008110602	2008-11-05	1486
2939528	69	TBM2008110803	2008-11-17	1370
2774960	69	TBM2008111101	2008-11-19	1169
2603115	69	TBM2008111104	2008-11-19	1775
2818648	69	TBM2008120803	2008-12-05	2181
2600896	69	TBM2008121503	2008-12-18	1270
2720626	69	TBM2009011001	2009-01-26	1688
2724517	69	TBM2009051005	2009-05-07	2457
2611264	69	TBM2009051009	2009-05-07	1402

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2958839	69	TBM2009051209	2009-05-12	1887
2974930	69	TBM2009071110	2009-07-07	1287
2792075	69	TBM2009081006	2009-08-19	1493
2707892	69	TBM2009081501	2009-08-24	1207
2525216	69	TBM2009091301	2009-09-17	1567
2853770	69	TBM2009100601	2009-10-06	2562
2321401	69	TBM2009110301	2009-11-05	1051
2951988	69	TBM2009111405	2009-11-18	2046
2811974	69	TBM2010040501	2010-04-05	1355
2807915	69	TBM2010051302	2010-05-19	1140
2601238	69	TBM2010051304	2010-05-19	2816
2818339	69	TBM2010051308	2010-05-19	2327
2358402	69	TBM2010060904	2010-06-03	1052
2962682	69	TBM2010060905	2010-06-03	1210
2951001	69	TBM2010060909	2010-06-03	1635
2812029	69	TBM2010070205	2010-07-01	1689
2523695	69	TBM2010070405	2010-07-08	2465
2796244	69	TBM2010070406	2010-07-08	1352
2597513	69	TBM2010070505	2010-07-09	1048
2443917	69	TBM2010091103	2010-09-14	1042
2397182	69	TBM2010091301	2010-09-16	1102
2740784	69	TBM2010091403	2010-09-20	2865
2843885	69	TBM2010091404	2010-09-20	1629
2715877	69	TBM2010100805	2010-10-07	1897
2600972	69	TBM2010100901	2010-10-14	1293
2576272	69	TBM2010100902	2010-10-14	1108
2501653	69	TBM2010101205	2010-10-15	1255
2543657	69	TBM2010101205	2010-10-15	1332
3078939	69	TBM2011030401	2011-03-02	1046
2383736	69	TBM2011051407	2011-05-18	1620
2760823	69	TBM2011060603	2011-06-27	1407
2802264	69	TBM2011070407	2011-07-11	1212
2388611	69	TBM2011090301	2011-09-14	1415
2813962	69	TBM2011100603	2011-10-03	1111
2778737	69	TBM2011100605	2011-10-03	1185
2809483	69	TBM2011110605	2011-11-02	1874
2374445	69	TBM2012010203	2012-01-04	1576
2973206	69	TBM2012010203	2012-01-04	2633
2615232	69	TBM2012050910	2012-05-10	1055
2773335	69	TBM2012081103	2012-08-09	1449
2916924	69	TBM2012100304	2012-10-22	1338
2963621	69	TBM2012100304	2012-10-22	2416
2709527	69	TBM2013050702	2013-05-21	2195
2807842	69	TBM2013060701	2013-06-11	1841
2744606	69	TBM2013060705	2013-06-11	1541
3032651	69	TBM2013060707	2013-06-11	1364
2800965	69	TBM2013070208	2013-07-03	2110
2522299	69	TBM2013071001	2013-07-16	1141
2853209	69	TBM2013080404	2013-08-13	1773
2747890	69	TBM2013091302	2013-09-23	2114
2543221	69	TBM2013110103	2013-11-04	2734
2959645	69	TBM2013110104	2013-11-04	1173

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2885156	69	TBM2014050206	2014-05-06	1215
2940704	69	TBM2014050208	2014-05-06	1749
2885240	69	TBM2014070408	2014-07-07	2530
2678806	69	TBM2014080106	2014-08-06	1596
2906613	69	TBM2014080601	2014-08-07	1109
2678924	69	TBM2014081110	2014-08-14	1319
2820691	69	TBM2014100904	2014-10-06	1463
2854977	69	TBM2014100906	2014-10-06	1695
2744262	69	TBM2014101302	2014-10-14	1324
2797716	69	TBM2014110404	2014-11-12	3094
2949688	69	TBM2014110901	2014-11-06	1334
2833334	69	TBM2014111002	2014-11-13	1713
2485362	69	TBM2015071501	2015-07-09	2546
1976901	69	TBM2015090704	2015-09-03	2509
2704018	69	TBM2015090704	2015-09-03	1405
2954472	69	TBM2015090704	2015-09-03	1064
2852819	69	TBM2015101008	2015-10-13	1182
2846796	69	TBM2015101306	2015-10-26	1169
2505719	69	TBM2015110804	2015-11-02	1414
2920112	69	TBM2015110805	2015-11-02	1050
2930991	69	TBM2015110805	2015-11-02	1235
2691987	69	TBM2015110901	2015-11-12	2013
2486291	69	TBM2015111205	2015-11-03	1107
2953032	69	TBM2016010204	2016-01-11	1258
2039432	69	TBM2016071101	2016-07-07	1473
2397666	69	TBM2016071101	2016-07-07	1151
2078110	69	TBM2016091807	2016-09-08	1623
2112623	69	TBM2016101401	2016-10-13	1129
2576156	69	TBM2016101406	2016-10-13	1594
2496905	69	TBM2017020302	2017-02-13	1147
2347653	69	TBM2017090906	2017-09-27	1121
2604910	69	TBM2017100502	2017-10-16	1626
2660719	69	TBM2017100804	2017-10-10	2535
3036275	69	TBM2017100805	2017-10-10	1223
3036276	69	TBM2017101504	2017-10-06	1204
3003972	69	TBM2017111101	2017-11-06	1280
2117535	69	TBM2018080106	2018-08-13	1070
2854666	69	TBM2018090803	2018-09-14	1265
2169359	69	TBM2018090905	2018-09-10	1793
2934369	69	TBM2018111201	2018-11-01	1289
2211149	69	TBM2019060106	2019-06-03	1628
3004799	69	TBM2019061203	2019-06-17	1816
2225145	69	TBM2019070303	2019-07-01	1375
2466168	69	TBM2019070304	2019-07-01	1102
2273662	69	TBM2019070705	2019-07-08	1065
2284578	69	TBM2019071503	2019-07-09	2024
2250986	69	TBM2019071504	2019-07-09	1729
2132053	69	TBM2019080306	2019-08-05	2215
2229220	69	TBM2019090402	2019-09-24	1755
1916402	69	TBM2019090501	2019-09-16	1923
2259551	69	TBM2019101103	2019-10-15	1183
2259161	69	TBM2019101105	2019-10-15	1757

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2351890	69	TBM2019111303	2019-11-14	1052
2582338	69	TBM2019111304	2019-11-14	1084
2199646	69	TBM2019111306	2019-11-14	1759
2362367	69	TBM2020020406	2020-02-10	1277
2166976	69	TBM2020080105	2020-08-03	1465
2165983	69	TBM2020081206	2020-08-13	3017
2231981	69	TBM2020081207	2020-08-13	1767
2340293	69	TBM2020090902	2020-09-03	1308
2472973	69	TBM2021020703	2021-02-09	1391
2193558	69	TBM2021060902	2021-06-04	1147
2373827	69	TBM2021070703	2021-07-02	2034
2368840	69	TBM2022090903	2022-09-02	1851
2341767	69	TBM2022090904	2022-09-02	1862
3006922	69	TBM2022101103	2022-10-10	1257
2155253	129	1	2001-02-20	1240
2192448	129	1	2003-02-18	1362
2216232	129	1	2003-02-18	1218
2109162	129	1	2003-03-18	1152
2192482	129	1	2003-03-18	1320
2095376	129	1	2010-01-20	1068
2168872	129	1	2010-01-20	1351
2175422	129	1	2010-03-17	1303
2097227	129	1	2011-02-17	1268
2174897	129	1	2011-02-17	2152
2175492	129	1	2011-02-17	1072
2178424	129	1	2011-02-17	3920
2178425	129	1	2011-02-17	4719
2178457	129	1	2011-03-15	1686
2222940	129	10	2003-02-18	1338
2222941	129	10	2003-02-18	1399
2381300	129	10	2011-02-16	1737
2386141	129	10	2011-02-16	1792
2386142	129	10	2011-02-16	2304
2392780	129	10	2011-02-16	1916
2407684	129	10	2011-02-16	1134
2364462	129	10	2011-03-16	3208
2386159	129	10	2011-03-16	1065
2407724	129	10	2011-03-16	1190
2407725	129	10	2011-03-16	1687
2465320	129	10	2022-03-29	1672
2466274	129	10	2022-03-29	1775
2490746	129	10	2022-03-29	2316
2531352	129	12	2001-02-20	1170
2572804	129	12	2010-01-19	1056
2965309	129	2	2009-04-21	1566
3000886	129	2	2009-10-28	1227
3081938	129	2	2009-10-28	1298
2211866	129	2	2011-02-17	1680
2151088	129	3	2001-04-24	1248
2246615	129	3	2002-04-16	1058
2246616	129	3	2002-04-16	1324
2262331	129	3	2002-04-16	2541

RowID	ProgramID	ProgramLocationID	SampleDate	ResultValue
2683680	129	4	2010-02-16	1141
2683681	129	4	2010-02-16	1465
2932075	129	4	2010-02-16	1441
2691714	129	4	2011-02-16	1790
2691715	129	4	2011-02-16	2315
2935598	129	4	2011-02-16	3742
2946318	129	4	2011-02-16	2229
3024319	129	5	2001-03-27	1228
3036700	129	5	2003-03-19	2083
3036701	129	5	2003-03-19	4825
3045001	129	5	2003-03-19	6147
3045996	129	5	2003-03-19	2802
2347852	129	5	2010-01-20	1617
2347853	129	5	2010-01-20	5068
2352913	129	5	2010-01-20	1889
2329348	129	5	2010-03-17	1080
2329752	129	5	2010-03-17	1267
2362407	129	5	2010-03-17	1274
2221962	129	5	2011-02-16	2876
2221963	129	5	2011-02-16	4690
2353294	129	5	2011-02-16	3924
2283336	129	7	2011-02-15	1267
2283337	129	7	2011-02-15	1583
2312545	129	7	2011-02-15	1397
2457131	129	8	2001-02-21	1164
2301454	129	8	2003-02-19	1709
2435844	129	8	2004-02-17	1063
2578970	129	8	2011-02-16	3584
2578971	129	8	2011-02-16	4436
2615916	129	8	2011-02-16	4888
2615917	129	8	2011-02-16	5260
2616680	129	8	2011-02-16	5772
2616204	129	8	2011-03-16	1131
2579039	129	8	2011-04-12	1269
2595726	129	8	2011-04-12	1917
2762088	129	9	2001-03-28	1064
2762089	129	9	2001-03-28	1220
2814020	129	9	2001-03-28	1620
2814021	129	9	2001-03-28	1784
2951920	129	9	2003-02-18	1083
2996739	129	9	2004-03-23	1073
3042925	129	9	2011-01-18	1144
3065514	129	9	2011-02-16	4292
3065515	129	9	2011-02-16	5940
3072762	129	9	2011-02-16	8224
3073742	129	9	2011-02-16	5616
3045788	129	9	2011-03-16	1509
3065536	129	9	2011-03-16	5060
3123921	129	9	2011-03-16	1138
3123922	129	9	2011-03-16	4984
3065556	129	9	2011-04-12	1133
3381452	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



## Discrete WQ

### Discrete WQ - Nutrients

#### Ammonia, Un-ionized (NH<sub>3</sub>)

Quantile Values:

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

Total data for *Ammonia, Un-ionized (NH<sub>3</sub>)* across all programs: **523**

Table 10: Flagged data, overview by program for **Ammonia, Un-ionized (NH<sub>3</sub>)**

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 (NH<sub>4</sub>)

Quantile Values:

*Low:* **-0.0231** *High:* **5.0979**

Total data for *Ammonium, Filtered (NH<sub>4</sub>)* across all programs: **141701**

Table 11: Flagged data, overview by program for **Ammonium, Filtered (NH<sub>4</sub>)**

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3	120	0	120	3128	3.83632	0.08469
354	1	0	1	6445	0.01552	0.00071
5002	161	140	21	61937	0.25994	0.11362

#### Programs containing flagged data:

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

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

*5002* - Florida STORET / WIN

#### Nitrate (NO<sub>3</sub>)

Quantile Values:

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

Total data for *Nitrate (NO<sub>3</sub>)* across all programs: **11230**

Table 12: Flagged data, overview by program for **Nitrate (NO<sub>3</sub>)**

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: **40529**

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	12130	0.02473	0.0074

**Programs containing flagged data:**

5002 - Florida STORET / WIN

**Nitrogen, organic**

Quantile Values:

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

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

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

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

**Programs containing flagged data:**

5002 - Florida STORET / WIN

**NO2+3, Filtered**

Quantile Values:

Low: **-0.002** High: **2.83719**

Total data for *NO2+3, Filtered* across all programs: **158859**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3	153	0	153	2869	5.33287	0.09631
477	2	0	2	318	0.62893	0.00126
4058	1	0	1	2227	0.04490	0.00063
5002	153	150	3	72048	0.21236	0.09631

**Programs containing flagged data:**

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

### Phosphate, Filtered (PO4)

Quantile Values:

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

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

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

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

### Programs containing flagged data:

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

### Total Kjeldahl Nitrogen

Quantile Values:

Low: **1e-04** High: **4.81323**

Total data for *Total Kjeldahl Nitrogen* across all programs: **116678**

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	0.00343
476	2	0	2	4697	0.04258	0.00171
513	68	66	2	4361	1.55928	0.05828
5002	129	23	106	71322	0.18087	0.11056
5014	3	0	3	1319	0.22745	0.00257

### 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: **4.12935**

Total data for *Total Nitrogen* across all programs: **144066**

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	0.00625
103	9	9	0	63	14.28571	0.00625
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	0.00278
303	4	0	4	1234	0.32415	0.00278
476	3	0	3	4497	0.06671	0.00208
479	2	0	2	8830	0.02265	0.00139
479	2	0	2	8825	0.02266	0.00139
513	33	30	3	3326	0.99218	0.02291
513	33	30	3	2710	1.21771	0.02291
514	63	63	0	10447	0.60304	0.04373
514	63	63	0	10489	0.60063	0.04373
4058	2	0	2	2125	0.09412	0.00139
5002	145	16	129	26477	0.54765	0.10065
5002	145	16	129	66016	0.21964	0.10065
5014	2	0	2	538	0.37175	0.00139

### Programs containing flagged data:

103 - EPA STORage and RETrieval Data Warehouse (STORET)

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: **2.77562**

Total data for *Total Nitrogen* across all programs: **85439**

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	0.00234
297	2	1	1	25707	0.00778	0.00234
303	9	0	9	1234	0.72934	0.01053

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
303	9	0	9	1222	0.73650	0.01053
479	3	0	3	8830	0.03398	0.00351
479	3	0	3	8825	0.03399	0.00351
509	1	0	1	6212	0.01610	0.00117
509	1	0	1	6212	0.01610	0.00117
513	23	9	14	3326	0.69152	0.02692
513	23	9	14	2710	0.84871	0.02692
514	32	31	1	10489	0.30508	0.03745
514	32	31	1	10447	0.30631	0.03745
5002	53	0	53	66016	0.08028	0.06203
5002	53	0	53	26477	0.20017	0.06203
5058	1	0	1	268	0.37313	0.00117
5058	1	0	1	268	0.37313	0.00117
10000	3	0	3	2079	0.14430	0.00351
10000	3	0	3	2062	0.14549	0.00351

**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: **0.73**

Total data for *Total Phosphorus* across all programs: **162889**

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	0.00430
355	3	0	3	3304	0.09080	0.00184
476	7	0	7	4813	0.14544	0.00430
479	1	0	1	8869	0.01128	0.00061
513	14	0	14	3736	0.37473	0.00859
5002	209	84	125	59610	0.35061	0.12831
5014	3	0	3	664	0.45181	0.00184

**Programs containing flagged data:**

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

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

## Discrete WQ - Water Clarity

### Chlorophyll a, Corrected for Pheophytin

Quantile Values:

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

Total data for *Chlorophyll a, Corrected for Pheophytin* across all programs: **67378**

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	0.00594
303	2	0	2	1903	0.10510	0.00297
354	1	0	1	2594	0.03855	0.00148
355	1	0	1	7881	0.01269	0.00148
476	1	0	1	2927	0.03416	0.00148
513	16	3	13	4125	0.38788	0.02375
514	6	0	6	1279	0.46912	0.00890
540	3	0	3	465	0.64516	0.00445
5002	29	1	28	21525	0.13473	0.04304
5014	3	0	3	663	0.45249	0.00445
10000	2	0	2	2737	0.07307	0.00297

### Programs containing flagged data:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)  
 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: **111.0856**

Total data for *Chlorophyll a, Uncorrected for Pheophytin* across all programs: **92145**

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	0.01302
103	26	26	0	4829	0.53841	0.02822
354	1	0	1	6708	0.01491	0.00109
355	1	0	1	4253	0.02351	0.00109
476	2	0	2	2964	0.06748	0.00217
479	1	0	1	1754	0.05701	0.00109
514	27	0	27	9410	0.28693	0.02930
540	3	0	3	453	0.66225	0.00326
4054	1	0	1	5240	0.01908	0.00109
5002	39	0	39	20053	0.19448	0.04232
5014	4	0	4	721	0.55479	0.00434
10000	2	0	2	3341	0.05986	0.00217

**Programs containing flagged data:**

95 - Harmful Algal Bloom Marine Observation Network  
 103 - EPA STORage and RETrieval Data Warehouse (STORET)  
 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: **699.3698**

Total data for *Colored Dissolved Organic Matter* across all programs: **26275**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
4054	18	0	18	1652	1.08959	0.06851
5002	9	0	9	8023	0.11218	0.03425

**Programs containing flagged data:**

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

## Light Extinction Coefficient

Quantile Values:

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

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

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

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

### Programs containing flagged data:

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project

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

5002 - Florida STORET / WIN

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

## Secchi Depth

Quantile Values:

Low: **0.1** High: **19**

Total data for *Secchi Depth* across all programs: **349800**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
60	8	0	8	42	19.04762	0.00229
103	7	2	5	3121	0.22429	0.00200
470	1	0	1	356	0.28090	0.00029
476	1	1	0	3814	0.02622	0.00029
479	2	0	2	8954	0.02234	0.00057
514	3	2	1	9150	0.03279	0.00086
537	1	0	1	220	0.45455	0.00029
3001	28	28	0	8683	0.32247	0.00800
3013	3	3	0	1989	0.15083	0.00086
5002	6	5	1	22902	0.02620	0.00172
5033	307	0	307	7329	4.18884	0.08776
10000	1	1	0	3283	0.03046	0.00029

### 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)

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: **177**

Total data for *Total Suspended Solids* across all programs: **89602**

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	0.00335
355	1	0	1	3304	0.03027	0.00112
513	4	0	4	4259	0.09392	0.00446
4054	10	0	10	4364	0.22915	0.01116
5002	79	18	61	48665	0.16233	0.08817
5033	7	0	7	13801	0.05072	0.00781

### Programs containing flagged data:

103 - EPA STORage and RETrieval Data Warehouse (STORET)  
 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: **126**

Total data for *Turbidity* across all programs: **314717**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
95	1	0	1	398	0.25126	0.00032
103	235	11	224	19595	1.19929	0.07467
303	29	0	29	1899	1.52712	0.00921
354	14	0	14	734	1.90736	0.00445
469	5	5	0	481	1.03950	0.00159
505	2	2	0	74	2.70270	0.00064
557	2	2	0	369	0.54201	0.00064
4058	2	0	2	2316	0.08636	0.00064
5002	42	0	42	209038	0.02009	0.01335

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
5026	10	9	1	410	2.43902	0.00318

#### Programs containing flagged data:

95 - Harmful Algal Bloom Marine Observation Network  
 103 - EPA STORage and RETrieval Data Warehouse (STORET)  
 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: **0.23** High: **14**

Total data for *Dissolved Oxygen* across all programs: **851876**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
69	615	72	543	276893	0.22211	0.07219
95	49	9	40	15145	0.32354	0.00575
103	1	0	1	24048	0.00416	0.00012
118	1	1	0	546	0.18315	0.00012
297	2	0	2	32169	0.00622	0.00023
303	3	0	3	1415	0.21201	0.00035
355	2	2	0	2466	0.08110	0.00023
470	1	0	1	921	0.10858	0.00012
476	4	4	0	4394	0.09103	0.00047
477	2	2	0	314	0.63694	0.00023
479	44	38	6	19968	0.22035	0.00517
509	2	1	1	12158	0.01645	0.00023
513	26	23	3	8259	0.31481	0.00305
537	1	1	0	370	0.27027	0.00012
540	1	0	1	396	0.25253	0.00012
557	1	0	1	1129	0.08857	0.00012
560	6	0	6	2104	0.28517	0.00070
3000	1	1	0	379	0.26385	0.00012
3001	7	2	5	12742	0.05494	0.00082
3013	1	0	1	2283	0.04380	0.00012
4043	4	4	0	2973	0.13454	0.00047
4054	6	0	6	3287	0.18254	0.00070
4058	7	3	4	2254	0.31056	0.00082
4067	46	38	8	17562	0.26193	0.00540

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
5002	797	605	192	383433	0.20786	0.09356
5014	3	3	0	259	1.15830	0.00035
10000	7	7	0	6876	0.10180	0.00082

#### 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)  
 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  
 10000 - RiverKeeper

#### Dissolved Oxygen Saturation

Quantile Values:

Low: **0.34293** High: **174.98932**

Total data for *Dissolved Oxygen Saturation* across all programs: **154357**

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	0.00194
129	1	0	1	3933	0.02543	0.00065
297	12	0	12	25419	0.04721	0.00777
303	6	0	6	1682	0.35672	0.00389
572	1	0	1	27	3.70370	0.00065
3001	171	151	20	12654	1.35135	0.11078
3013	3	0	3	1160	0.25862	0.00194

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
4064	1	0	1	619	0.16155	0.00065
4067	32	0	32	17104	0.18709	0.02073
5002	78	3	75	70692	0.11034	0.05053
5008	1	0	1	2613	0.03827	0.00065
5026	1	0	1	491	0.20367	0.00065

#### 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: **684760**

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	0.05491
95	54	7	47	12884	0.41912	0.00789
103	1	0	1	13822	0.00723	0.00015
129	7	3	4	2248	0.31139	0.00102
303	20	0	20	1882	1.06270	0.00292
354	12	2	10	885	1.35593	0.00175
355	12	4	8	1295	0.92664	0.00175
469	13	0	13	1168	1.11301	0.00190
470	1	0	1	946	0.10571	0.00015
476	4	2	2	4806	0.08323	0.00058
477	8	8	0	318	2.51572	0.00117
479	16	7	9	17571	0.09106	0.00234
509	25	25	0	3472	0.72005	0.00365
513	7	2	5	8203	0.08533	0.00102
560	2	2	0	1841	0.10864	0.00029
3000	2	0	2	331	0.60423	0.00029
3001	6	4	2	12159	0.04935	0.00088
3013	1	0	1	2271	0.04403	0.00015
4054	2	1	1	3375	0.05926	0.00029
4058	5	1	4	2308	0.21664	0.00073

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
4065	1	0	1	314	0.31847	0.00015
4067	12	3	9	13727	0.08742	0.00175
5002	650	454	196	287340	0.22621	0.09492

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

#### Salinity

Quantile Values:

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

Total data for *Salinity* across all programs: **853617**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
3	16	0	16	4636	0.34513	0.00187
69	134	0	134	278912	0.04804	0.01570
95	126	0	126	26608	0.47354	0.01476
115	3	0	3	360	0.83333	0.00035
118	16	0	16	535	2.99065	0.00187
297	33	0	33	31841	0.10364	0.00387
354	6	0	6	1283	0.46765	0.00070
456	6	0	6	134	4.47761	0.00070
476	17	0	17	5044	0.33703	0.00199
509	19	0	19	12034	0.15789	0.00223
560	1	0	1	2129	0.04697	0.00012

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
965	8	0	8	4157	0.19245	0.00094
3000	4	0	4	388	1.03093	0.00047
3001	14	0	14	12721	0.11005	0.00164
3013	4	0	4	2346	0.17050	0.00047
4043	1	0	1	3048	0.03281	0.00012
4049	27	0	27	1354	1.99409	0.00316
4057	3	0	3	230	1.30435	0.00035
4058	2	0	2	2308	0.08666	0.00023
4067	3	0	3	12597	0.02382	0.00035
5002	373	0	373	391087	0.09538	0.04370

#### 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: **60.71**

Total data for *Specific Conductivity* across all programs: **445730**

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	0.08907
95	1	1	0	2834	0.03529	0.00022
103	1	0	1	10667	0.00937	0.00022
354	9	0	9	425	2.11765	0.00202
355	1	0	1	639	0.15649	0.00022

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
514	1	0	1	2885	0.03466	0.00022
572	1	0	1	27	3.70370	0.00022
3013	5	0	5	2290	0.21834	0.00112
4058	16	0	16	2301	0.69535	0.00359
4067	4	0	4	13474	0.02969	0.00090
5002	406	0	406	123298	0.32928	0.09109
10000	1	0	1	6765	0.01478	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)  
 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: **902307**

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	279298	0.14787	0.04577
95	83	4	79	25823	0.32142	0.00920
103	5	0	5	25337	0.01973	0.00055
129	2	1	1	3959	0.05052	0.00022
297	31	0	31	31803	0.09748	0.00344
303	10	0	10	1977	0.50582	0.00111
354	7	0	7	1281	0.54645	0.00078
355	11	11	0	2495	0.44088	0.00122
470	1	0	1	974	0.10267	0.00011
476	2	1	1	5088	0.03931	0.00022
479	4	0	4	18434	0.02170	0.00044
509	8	0	8	12044	0.06642	0.00089
513	3	0	3	8329	0.03602	0.00033
537	1	0	1	370	0.27027	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	2129	0.14091	0.00033

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
965	5	0	5	4157	0.12028	0.00055
982	5	0	5	1129	0.44287	0.00055
3000	13	0	13	379	3.43008	0.00144
3001	74	3	71	12780	0.57903	0.00820
3013	10	0	10	2336	0.42808	0.00111
4043	3	0	3	3042	0.09862	0.00033
4054	6	0	6	3520	0.17045	0.00066
4057	1	0	1	227	0.44053	0.00011
4058	2	0	2	2298	0.08703	0.00022
4064	3	0	3	619	0.48465	0.00033
4067	3	0	3	16167	0.01856	0.00033
5002	1004	745	259	416267	0.24119	0.11127
5008	1	0	1	2613	0.03827	0.00011
5026	2	0	2	1535	0.13029	0.00022

#### Programs containing flagged data:

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



## Continuous WQ

### Continuous WQ - Water Quality

#### Dissolved Oxygen

Quantile Values:

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

Total data for *Dissolved Oxygen* across all programs: **14177099**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
7	11	0	11	11692	0.09408	0.00008
354	1853	614	1239	2665127	0.06953	0.01307
355	13372	3078	10294	3176157	0.42101	0.09432
467	120	76	44	232610	0.05159	0.00085
468	144	2	142	214674	0.06708	0.00102
471	96	1	95	828076	0.01159	0.00068
474	45	18	27	1476139	0.00305	0.00032
505	1	1	0	3794	0.02636	0.00001
512	908	446	462	1632623	0.05562	0.00640
4054	2	2	0	2654737	0.00008	0.00001
5006	17	17	0	299984	0.00567	0.00012
5061	143	38	105	168634	0.08480	0.00101
5077	2077	1003	1074	711227	0.29203	0.01465

#### 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: **170.52318**

Total data for *Dissolved Oxygen Saturation* across all programs: **14278823**

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	4594	2771	1823	2689966	0.17078	0.03217
355	10840	8245	2595	3182191	0.34065	0.07592
467	258	252	6	238878	0.10800	0.00181
468	303	2	301	230769	0.13130	0.00212
471	550	9	541	835119	0.06586	0.00385
474	930	173	757	1489985	0.06242	0.00651
505	1	1	0	3748	0.02668	0.00001
512	4251	833	3418	1631583	0.26054	0.02977
4054	10	10	0	2679645	0.00037	0.00007
5006	58	58	0	300017	0.01933	0.00041
5061	263	37	226	179447	0.14656	0.00184
5077	5789	1250	4539	715849	0.80869	0.04054
10004	73	0	73	13235	0.55157	0.00051

**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: **14780540**

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	2919903	0.00055	0.00011
355	15032	12202	2830	3216948	0.46728	0.10170
468	315	2	313	238550	0.13205	0.00213
471	4572	0	4572	986065	0.46366	0.03093
474	367	13	354	1729873	0.02122	0.00248
512	377	60	317	1541264	0.02446	0.00255
4054	915	0	915	2606872	0.03510	0.00619
5061	4534	0	4534	168395	2.69248	0.03068
5077	138	0	138	711488	0.01940	0.00093

### 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: **15646341**

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	0.00036
7	214	0	214	70672	0.30281	0.00137
354	12590	0	12590	3026092	0.41605	0.08047
355	407	0	407	3329431	0.01222	0.00260
474	1302	0	1302	1758731	0.07403	0.00832
4054	833	0	833	2638901	0.03157	0.00532
5006	9	0	9	311839	0.00289	0.00006
5077	39	0	39	703326	0.00555	0.00025

### Programs containing flagged data:

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

### Water Temperature

Quantile Values:

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

Total data for *Water Temperature* across all programs: **37840970**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
2	5	0	5	86204	0.00580	0.00001
5	9131	2893	6238	6087051	0.15001	0.02413
7	232	1	231	98686	0.23509	0.00061
296	2954	0	2954	3987025	0.07409	0.00781
354	10092	68	10024	3110599	0.32444	0.02667
355	12401	12066	335	3423611	0.36222	0.03277
467	1533	1480	53	274031	0.55943	0.00405
468	2933	2238	695	266445	1.10079	0.00775
471	12220	10983	1237	1272310	0.96046	0.03229
474	6668	210	6458	1899869	0.35097	0.01762
505	13	12	1	3870	0.33592	0.00003
512	1511	322	1189	1750964	0.08630	0.00399
986	306	0	306	8692018	0.00352	0.00081
989	104	1	103	1824357	0.00570	0.00027
4054	6653	2610	4043	2774590	0.23978	0.01758
5005	294	0	294	43791	0.67137	0.00078
5006	1543	1542	1	312254	0.49415	0.00408
5061	177	174	3	169093	0.10468	0.00047
5077	1750	923	827	743078	0.23551	0.00462
10003	51	0	51	41374	0.12327	0.00013

**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

## Continuous WQ - Water Clarity

### Turbidity

Quantile Values:

Low: **0** High: **518**

Total data for *Turbidity* across all programs: **14112218**

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

ProgramID	n flagged	n low	n high	n tot	pct prog	pct all
354	1695	0	1695	2858398	0.05930	0.01201
355	5634	0	5634	3109737	0.18117	0.03992
467	94	0	94	261360	0.03597	0.00067
468	349	1	348	200732	0.17386	0.00247
471	415	0	415	921894	0.04502	0.00294
473	25	0	25	8263	0.30255	0.00018
474	45	0	45	1478226	0.00304	0.00032
512	4231	0	4231	1424879	0.29694	0.02998
4054	1318	0	1318	2583699	0.05101	0.00934
5006	237	0	237	303336	0.07813	0.00168
5077	5	0	5	717001	0.00070	0.00004
10003	37	0	37	41169	0.08987	0.00026
10004	1	0	1	13229	0.00756	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