## This document summarizes testing results for Version 4.3 of AHRQ's SAS and WinQl software, released on August 24, 2011.

Testing that compared the QI results calculated by SAS and WinQI was performed using data from AHRQ's Healthcare Costs and Utilization Project (HCUP): the 2008 intramural Nationwide Inpatient Sample (NIS) database and the 4th quarter 2009 State Inpatient Databases (SID). These results are provided as information for Ql software users.
We wish to highlight two known considerations for the 4.3 software:
Zero Variability in Smoothed Rates for IQI-11, IQI-14, NQI-01 and PSI-08
In Version 4.3 of the SAS and WinQI software, the smoothed rates for four provider-level indicators, IQI-11, IQI-14, NQI-01 and PSI-08, are constant for all providers and are equal to the reference population rate. In other words, no variation in hospital performance can be seen in these four measures using the smoothed rate.

This lack of variation in smoothed rates is due to the parameter estimation step performed during software development. As calculated from 2008 SID data, the estimated signal variance for these indicators is equal to zero. The constant smoothed rates for these indicators are not due to a software error; they represent a limitation in current parameter estimation procedures as applied to the most recent national data.

Differences in Area Denominator Adjustment
In Version 4.3 and previous versions, the SAS and WinQI software calculate denominators differently for some area-level indicators under certain conditions. We believe that this difference between SAS and WinQl's calculations accounts for mos differences in area-level indicators observed in the comparison test results.

For most area-level indicators, the denominators are related to county populations, which are derived from official U.S. Census Bureau data. However, for some combinations of county and demographic category, the Census data is missing or zero. In these cases, SAS makes an adjustment to include in the denominator any patient cases from the discharge record data set that fall within that county and demographic category. WinQl does not make this adjustment.

| KEY |  |  |
| :---: | :---: | :---: |
| Field Name | Description | Notes |
| QI | Quality Indicator |  |
| TYPE | Provider-level or area-level indicator |  |
| n_WinQl | The number of providers (or counties) for which a Ql calculation was reported by WinQl |  |
| n_SAS | The number of providers (or counties) for which a QI calculation was reported by SAS |  |
| Max_Diff_Num | Maximum difference in the numerator counts that were calculated by SAS and WinQI for any one provider (or county) |  |
| Max_Diff_Denom | Maximum difference in the denominator counts that were calculated by SAS and WinQI for any one provider (or county) |  |
| Max_Diff_ObsRate | Maximum difference in the observed rate calculated by SAS and WinQI for any one provider (or county) |  |
| Max_\%Diff_ObsRate | Maximum difference in the observed rate calculated by SAS and WinQI for any one provider (or county) expressed as a percentage of the observed rate calculated by SAS |  |
| Max_Diff_ExpRate | Maximum difference in the expected rate calculated by SAS and WinQI for any one provider (or county) |  |
| Max_\%Diff_ExpRate | Maximum difference in the expected rate calculated by SAS and WinQI for any one provider (or county) expressed as a percentage of the expected rate calculated by SAS |  |
| Max_Diff_RARate | Maximum difference in the risk-adjusted rate calculated by SAS and WinQl for any one provider (or county) |  |
| Max_\%Diff_RARate | Maximum difference in the risk-adjusted rate calculated by SAS and WinQI for any one provider (or county) expressed as a percentage of the risk-adjusted rate calculated by SAS |  |
| Max_Diff_SmoothRate | Maximum difference in the smoothed rate calculated by SAS and WinQl for any one provider (or county) |  |
| Max_\%Diff_SmoothRate | Maximum difference in the smoothed rate calculated by SAS and WinQI for any one provider (or county) expressed as a percentage of the smoothed rate calculated by SAS |  |
| \%<2Percentile_Diff_RARate | Percentage of total providers where the SAS risk-adjusted rate percentile and WinQI risk-adjusted rate percentile are different by more than 2 percentiles | The SAS (or WinQI) risk-adjusted rate percentile for a given provider is the percentage of total providers with a risk-adjusted rate less than or equal to the risk-adjusted rate for the given provider. For provider-level QI only. |
| \%Diff_StatSig_RARate | Percentage of total providers where the SAS and WinQI significance determination based on the risk-adjusted rate do not agree | For provider-level QI only. |
| \%<2Percentile_Diff_SmoothRate | Percentage of total providers where the SAS smoothed rate percentile and WinQI smoothed rate percentile are different by more than 2 percentiles | The SAS (or WinQI) smoothed rate percentile for a given provider is the percentage of total providers with a smoothed rate less than or equal to the smoothed rate for the given provider. For provider-leve QI only. |
| \%Diff_StatSig_SmoothRate | Percentage of total providers where the SAS and WinQl significance determination based on the smoothed rate do not agree | For provider-level QI only. |


| Max_Diff_Comp |  | Maximum difference in the composite rate calculated by SAS and WinQl for any one provider (or county) |  |  |  |  |  |  |  |  | For composites only. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Max_\%Diff_Comp |  | Maximum difference in the composite rate calculated by SAS and WinQI for any one provider (or county) expressed as a percentage of the composite rate calculated by SAS |  |  |  |  |  |  |  |  | For composites only. |  |  |  |  |  |  |
| Max_Diff_Comp_SE |  | Maximum difference in the composite rate standard error calculated by SAS and WinQI for any one provider (or county) |  |  |  |  |  |  |  |  | For composites only. |  |  |  |  |  |  |
| Max_\%Diff_Comp_SE |  | Maximum difference in the composite rate standard error calculated by SAS and WinQI for any one provider (or county) expressed as a percentage of the composite rate standard error calculated by SAS |  |  |  |  |  |  |  |  | For composites only. |  |  |  |  |  |  |
| \%<2Percentile_Diff_Comp |  | Percentage of total providers where the SAS composite rate percentile and WinQI composite rate percentile are different by more than 2 percentiles |  |  |  |  |  |  |  |  | The SAS (or WinQI) composite rate percentile for a given provider is the percentage of total providers with a composite rate less than or equal to the composite rate for the given provider. For providerlevel composites only. |  |  |  |  |  |  |
| \%Diff_StatSig_Comp |  | Percentage of total providers where the SAS and WinQl significance determination based on the composite rate do not agree |  |  |  |  |  |  |  |  | For provider-level composites only. |  |  |  |  |  |  |
| INDIVIDUAL QI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ql | TYPE | $\begin{gathered} \mathrm{n}_{-} \\ \text {WinQI } \end{gathered}$ | n_SAS | Max_ Diff_Num | Max_Diff _Denom | Max_Diff _ObsRate | Max_ \%Diff_ ObsRate | Max_Diff_ ExpRate | Max_\%Diff _ExpRate | Max_ Diff_ RARate | Max_\%Diff_ RARate | $\begin{aligned} & \text { Max_Diff_ } \\ & \text { Smooth } \\ & \text { Rate } \end{aligned}$ | $\begin{aligned} & \text { Max_\%Diff } \\ & \text { _Smooth } \\ & \text { Rate } \end{aligned}$ | \%<2 <br> Percentile_ Diff_RARate | \%Diff_ <br> StatSig_ <br> RARate | \%<2 <br> Percentile_ Diff_ <br> SmoothRate | \%Diff_ <br> StatSig_ SmoothRate |
| Inpatient Quality Indicators |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10101 | Provider | 407 | 407 | 0 | . | . | . | . | . |  | . | . | . | . |  | . | . |
| 10102 | Provider | 436 | 436 | 0 | . | . | . | . | . |  | . | . | . | . | . | . | . |
| IQ104 | Provider | 938 | 938 | 0 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10105 | Provider | 645 | 645 | 0 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10106 | Provider | 940 | 940 | 0 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| IQ107 | Provider | 1,188 | 1,188 | 0 | . | . | . | . | . |  | . | . | . | . | . | . | . |
| IQ108 | Provider | 364 | 364 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10109 | Provider | 380 | 380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ111 | Provider | 934 | 934 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . |
| IQI12 | Provider | 643 | 643 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ113 | Provider | 752 | 752 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ114 | Provider | 1,727 | 1,727 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . |
| IQ115 | Provider | 2,188 | 2,188 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ116 | Provider | 2,623 | 2,623 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ117 | Provider | 2,416 | 2,416 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 Q 118 | Provider | 2,440 | 2,440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ119 | Provider | 1,973 | 1,973 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 Q 20 | Provider | 2,697 | 2,697 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ121 | Provider | 1,801 | 1,801 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ122 | Provider | 1,757 | 1,757 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ123 | Provider | 2,162 | 2,162 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ124 | Provider | 2,196 | 2,196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ125 | Provider | 1,215 | 1,215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 Q 26 | Area | 10,873 | 11,347 | 0 | 0 | 0 | 0 | 0.00002 | 0.83\% | 0.00116 | 3.70\% | 0 | 0 | NA | NA | NA | NA |
| IQ127 | Area | 10,893 | 11,367 | 0 | 0 | 0 | 0 | 0.00004 | 0.65\% | 0.00017 | 1.68\% | 0.00012 | 0.99\% | NA | NA | NA | NA |
| IQ128 | Area | 11,342 | 11,344 | 0 | 0 | 0 | 0 | 0.00002 | 0.47\% | 0.00011 | 1.08\% | 0 | 0 | NA | NA | NA | NA |
| IQ129 | Area | 11,352 | 11,354 | 0 | 0 | 0 | 0 | 0 | 0.09\% | 0.00071 | 3.03\% | 0 | 0 | NA | NA | NA | NA |
| IQ130 | Provider | 931 | 931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ131 | Provider | 1,187 | 1,187 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ132 | Provider | 1,038 | 1,038 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ133 | Provider | 1,800 | 1,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IQ134 | Provider | 1,759 | 1,759 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Neonatal Quality Indicators |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NQ101 | Provider | 1,567 | 1,567 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . |
| NQ102 | Provider | 1,818 | 1,818 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NQ103 | Provider | 1,152 | 1,152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Pediatric Qua |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PDI01 | Provider | 2,582 | 2,582 | 0 | 1 | 0 | 0.02\% | 0.00002 | 0.18\% | 0.00001 | 0.31\% | 0 | 0.09\% | 0 | 0 | 0 | 0 |
| PDIO2 | Provider | 1,646 | 1,646 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PDI03 | Provider | 2 | 2 | 0 | . | . | . | . | . |  | . | . | . | . | . | . | . |
| PDI05 | Provider | 2,577 | 2,577 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PDI06 | Provider | 125 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PDI07 | Provider | 187 | 187 | 0 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| PDI08 | Provider | 1,220 | 1,220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PDI09 | Provider | 1,197 | 1,197 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PDI10 | Provider | 893 | 893 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PDI11 | Provider | 1,268 | 1,268 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PDI12 | Provider | 2,507 | 2,507 | 0 | 0 | 0 | 0 | 0 | 0.01\% | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 |
| PDI13 | Provider | 1 | 1 | 0 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| PDI14 | Area | 6,552 | 6,548 | 0 | 0 | 0.00001 | 0.15\% | 0.00001 | 0.41\% | 0 | 0.23\% | 0 | 0 | NA | NA | NA | NA |
| PDI15 | Area | 6,475 | 6,548 | 0 | 0 | 0 | 0.06\% | 0 | 0.58\% | 0 | 0.08\% | 0 | 0 | NA | NA | NA | NA |
| PDI16 | Area | 6,551 | 6,547 | 0 | 0 | 0.00003 | 0.37\% | 0.00001 | 0.42\% | 0.00001 | 0.39\% | 0 | 0 | NA | NA | NA | NA |
| PDI17 | Area | 2,259 | 2,259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NA | NA | NA | NA |
| PDI18 | Area | 6,551 | 6,547 | 0 | 0 | 0 | 0.11\% | 0 | 0.42\% | 0.00001 | 0.24\% | 0 | 0 | NA | NA | NA | NA |
| PDI90 | Area | 6,477 | 6,550 | 0 | 0 | 0.00002 | 0.19\% | 0.00001 | 0.58\% | 0 | 0.59\% | 0 | 0 | NA | NA | NA | NA |
| PDI91 | Area | 6,474 | 6,547 | 0 | 0 | 0.00001 | 0.19\% | 0 | 0.58\% | 0 | 0.41\% | 0 | 0 | NA | NA | NA | NA |
| PDI92 | Area | 6,476 | 6,549 | 0 | 0 | 0.00001 | 0.19\% | 0.00001 | 0.58\% | 0.00001 | 0.26\% | 0 | 0 | NA | NA | NA | NA |
| Prevention Quality Indicators |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PQ101 | Area | 11,337 | 11,339 | 0 | 0 | 0 | 0 | 0 | 0.02\% | 0 | 0.18\% | 0 | 0 | NA | NA | NA | NA |
| PDIO2 | Area | 3,680 | 3,680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NA | NA | NA | NA |
| PQ103 | Area | 11,346 | 11,348 | 0 | 0 | 0 | 0 | 0 | 0.21\% | 0.00002 | 0.49\% | 0 | 0 | NA | NA | NA | NA |
| PQ105 | Area | 10,882 | 11,356 | 0 | 0 | 0 | 0 | 0.00005 | 0.72\% | 0.00021 | 1.67\% | 0.00018 | 1.33\% | NA | NA | NA | NA |
| PQ107 | Area | 11,334 | 11,336 | 0 | 0 | 0 | 0 | 0 | 0.27\% | 0 | 0.37\% | 0 | 0 | NA | NA | NA | NA |
| PQ108 | Area | 11,352 | 11,354 | 0 | 0 | 0 | 0 | 0.00011 | 2.18\% | 0.0002 | 2.69\% | 0.00017 | 2.59\% | NA | NA | NA | NA |
| PQ109 | Area | 5,026 | 5,026 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NA | NA | NA | NA |
| PQ110 | Area | 11,338 | 11,340 | 0 | 0 | 0 | 0 | 0.00002 | 0.90\% | 0.00009 | 1.38\% | 0 | 0 | NA | NA | NA | NA |
| PQ111 | Area | 11,354 | 11,356 | 0 | 0 | 0 | 0 | 0.00014 | 2.98\% | 0.0004 | 3.81\% | 0.00029 | 3.35\% | NA | NA | NA | NA |
| PQ112 | Area | 11,345 | 11,347 | 0 | 0 | 0 | 0 | 0.00004 | 1.13\% | 0.00006 | 1.37\% | 0 | 0 | NA | NA | NA | NA |
| PQ113 | Area | 11,332 | 11,334 | 0 | 0 | 0 | 0 | 0 | 0.10\% | 0 | 0.22\% | 0 | 0 | NA | NA | NA | NA |
| PQ114 | Area | 11,332 | 11,334 | 0 | 0 | 0 | 0 | 0 | 0.02\% | 0 | 0.09\% | 0 | 0 | NA | NA | NA | NA |
| PQ115 | Area | 8,370 | 11,335 | 0 | 0 | 0 | 0 | 0 | 0.16\% | 0.00001 | 0.30\% | 0 | 0 | NA | NA | NA | NA |
| PQI16 | Area | 11,332 | 11,334 | 0 | 0 | 0 | 0 | 0 | 0.07\% | 0.00066 | 3.03\% | 0 | 0 | NA | NA | NA | NA |
| PQ190 | Area | 11,422 | 11,424 | 0 | 0 | 0 | 0 | 0.00147 | 5.59\% | 0.00257 | 8.40\% | 0.00252 | 8.26\% | NA | NA | NA | NA |
| PQ191 | Area | 11,374 | 11,376 | 0 | 0 | 0 | 0 | 0.00052 | 4.61\% | 0.00122 | 6.50\% | 0.00112 | 6.16\% | NA | NA | NA | NA |
| PQ192 | Area | 11,395 | 11,397 | 0 | 0 | 0 | 0 | 0.00029 | 2.38\% | 0.00084 | 3.85\% | 0.00069 | 3.77\% | NA | NA | NA | NA |
| Patient Safety Indicators |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PSIO2 | Provider | 2,728 | 2,728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PSIO3 | Provider | 2,847 | 2,847 | 0 | 1 | 0 | 0.06\% | 0 | 0.01\% | 0 | 0.07\% | 0 | 0.06\% | 0 | 0 | 0 | 0 |
| PSI04 | Provider | 1,978 | 1,978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PSI05 | Provider | 177 | 177 | 0 |  | . |  | . | . |  |  | . | . | . | . | . | . |
| PSI06 | Provider | 2,950 | 2,950 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PSIO7 | Provider | 2,949 | 2,949 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 |
| PS108 | Provider | 2,541 | 2,541 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . |
| PSIO9 | Provider | 2,564 | 2,564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 |
| PSI10 | Provider | 2,259 | 2,259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | O | 0 | 0 | 0 |
| PSI11 | Provider | 2,242 | 2,242 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |
| PSI12 | Provider | 2,567 | 2,567 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PSI13 | Provider | 2,081 | 2,081 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PSI14 | Provider | 2,332 | 2,332 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PSI15 | Provider | 2,950 | 2,950 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PSI16 | Provider | 22 | 22 | 0 | . | . |  | . | . |  | . | . | . | . | . | . | . |
| PSI17 | Provider | 1,800 | 1,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PSI18 | Provider | 1,651 | 1,651 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| PSI19 | Provider | 1,799 | 1,799 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PSI21 | Area | 11,328 | 11,330 | 0 | 0 | 0 | 0 |  |  |  |  |  |  | NA | NA | NA | NA |
| PSI22 | Area | 11,328 | 11,330 | 0 | 0 | 0 | 0 | . | . |  |  |  |  | NA | NA | NA | NA |
| PSI23 | Area | 11,331 | 11,333 | 0 | 0 | 0 | 0 | . |  |  |  |  |  | NA | NA | NA | NA |
| PSI24 | Area | 11,329 | 11,331 | 0 | 0 | 0 | 0 | . | . |  |  |  |  | NA | NA | NA | NA |
| PSI25 | Area | 11,338 | 11,340 | 0 | 0 | 0 | 0 | . | . |  |  |  |  | NA | NA | NA | NA |
| PSI26 | Area | 11,328 | 11,330 | 0 | 0 | 0 | 0 | . | . |  |  |  |  | NA | NA | NA | NA |
| PS127 | Area | 11,331 | 11,333 | 0 | 0 | 0 | 0 | . | . |  |  | . |  | NA | NA | NA | NA |
| Q1 COMPOSI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q1 | TYPE | $\begin{gathered} \mathrm{n}_{-} \\ \text {WinQI } \end{gathered}$ | n_SAS | $\begin{aligned} & \text { Max_Diff_ } \\ & \text { Comp } \end{aligned}$ | Max_ \%Diff_ Comp | Max_Diff_ Comp_SE | $\begin{gathered} \hline \text { Max_ } \\ \text { \%Diff_ } \\ \text { Comp } \\ \text { _SE } \\ \hline \end{gathered}$ | $\%<2$ <br> Percentile _Diff_ Comp | \%Diff_ StatSig_ Comp |  |  |  |  |  |  |  |  |
| IQ190 | Provider | 2,961 | 2,953 | 0.00328 | 0.33\% | 0 | 0 | 0 | 0 | 1 Q 190 | IQI provid | mp | ure | ty for | proce |  |  |
| IQ191 | Provider | 2,961 | 2,953 | 0.010584 | 0.99\% | 0 | 0 | 0.10\% | 0 | IQ191 | IQI provid | omp | ure | ity for | condi |  |  |
| PDI19 | Provider | 2,961 | 2,587 | 0.000208 | 0.03 | 0.00002 | 0.01\% | 0 | 0 | PDI19 | PDI provi | om | sur | ric pa | $y$ for | dica |  |
| PDI90 | Area | 2,408 | 2,408 | 0.00004 | 0.59\% | 0.00001 | 0.35\% | NA | NA | PDI90 | PDI area- | ll c | mea |  |  |  |  |
| PDI91 | Area | 1,758 | 1,758 | 0.00002 | 0.41\% | 0 | 0.20\% | NA | NA | PDI91 | PDI area- | co | eas |  |  |  |  |
| PDI92 | Area | 1,942 | 1,942 | 0.000012 | 0.26\% | 0 | 0.17\% | NA | NA | PDI92 | PDI area- | ic | meas |  |  |  |  |
| PQ190 | Area | 7,024 | 7,024 | 0.002565 | 8.40\% | 0.00046 | 4.28\% | NA | NA | PQI90 | PQI area- | ll c | mea |  |  |  |  |
| PQ191 | Area | 5,795 | 5,795 | 0.001217 | 6.50\% | 0.00004 | 3.26\% | NA | NA | PQ191 | PQI area- | co | eas |  |  |  |  |
| PQ192 | Area | 6,025 | 6,025 | 0.000835 | 3.85\% | 0.00031 | 1.94\% | NA | NA | PQ192 | PQI area- | nic | mea |  |  |  |  |
| PSI90 | Provider | 2,961 | 2,953 | 0.003324 | 0.38\% | 0 | 0 | 0 | 0 | PSI90 | PSI provid | omp | ure | safe | ted |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Please note that n differs between SAS and WinQl for some area-level indicators and some composites |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NA - not applicable |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| "." - insufficient data to calculate a result |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

